Appendix A

AIR QUALITY

AIR QUALITY TECHNICAL REPORT

For the Proposed Concourse A Phase II Environmental Assessment at the Charlotte Douglas International Airport Mecklenburg County, North Carolina

Prepared for:

CLT
CHARLOTTE DOUGLAS SM
INTERNATIONAL AIRPORT

Prepared by:

Landrum & Brown, Incorporated
4445 Lake Forest Drive
Cincinnati, Ohio 45242

TABLE OF CONTENTS

LIST OF TABLES

I. INTRODUCTION

The Proposed Quattro Development at the Charlotte Douglas International Airport (CLT or Airport) includes the construction of two new concourses to the north of Concourse A. This Proposed Project, as described in the Environmental Assessment (EA), includes the following elements:

Construct one new pier on Concourse A (approximately 195,000 square feet footprint) to the north of the second Concourse A pier

This project element includes the construction of one new ten-gate pier at Concourse A. The Concourse A expansion would have an approximately 195,000 square feet footprint with up to three levels and include the development of additional terminal space, aircraft gates, holdrooms, concession space, restrooms, and corridors with moving sidewalks. Up to ten gates configured to accommodate Group III aircraft would be allotted on the Concourse A expansion.

The following are connected actions of the Concourse A pier project:

- Paving of approximately 245,000 square feet of ramp pavement to accommodate aircraft movement around the new gates
- Install hydrant fueling system with new jet fuel and hydrant pits within the ramp area at each of the proposed gates

Pave approximately 361,000 square feet of ramp to the north of the new Concourse A pier

This project element includes the pavement of approximately 361,000 square feet north of the new pier at Concourse A. The majority of this area is already paved, but the current pavement will be removed and replaced with aircraft-grade pavement that is consistent with FAA design standards. See Section 5.14.3, *Surface Water*, for additional details regarding the impervious surface area. This area would serve as a hardstand[1] area used to park a maximum of six Group III aircraft at one time.

The following are connected actions of the north ramp project:

- Mark and install lighting for a vehicle service road to provide access to the north ramp project
- Install gate to provide access to the vehicle service road from Rental Car Road
- Reconfigure utilities to connect to existing electric utilities to serve the north ramp project

[1] Hardstands are only for aircraft parking. No passenger loading/unloading would occur at hardstands.

Construct and operate a Ground Support Equipment (GSE) fueling facility and lavatory station on the west side of the terminal complex north of the new Concourse A pier

This project element includes the construction and operation of a GSE fueling facility and lavatory station on the west side of the terminal complex north of the new Concourse A pier in an approximately 80,000 square foot undeveloped area adjacent to terminal ramp pavement.

The following are connected actions of the GSE and lavatory project:

- Paving of approximately 80,000 square feet of pavement to accommodate and provide access to the GSE fueling facility and lavatory station
- Mark and install lighting for a vehicle service road to provide access to the GSE fueling facility and lavatory station
- Reconfigure utilities to connect the GSE facility to the existing electric and sewer systems

II. REGULATORY SETTING

NATIONAL AMBIENT AIR QUALITY STANDARDS

The Clean Air Act, including the 1990 Amendments, (CAA) provides for the establishment of standards and programs to evaluate, achieve, and maintain acceptable air quality in the U.S. Under the CAA, the U.S. Environmental Protection Agency (USEPA) established a set of standards, or criteria, for six pollutants determined to be potentially harmful to human health and welfare.[2] A discussion on the criteria pollutants is provided in **Attachment 1**. The USEPA considers the presence of the following six criteria pollutants to be indicators of air quality:

- Ozone (O_3);
- Carbon monoxide (CO);
- Nitrogen dioxide (NO_2);
- Particulate matter (PM_{10} and $PM_{2.5}$);
- Sulfur dioxide (SO_2); and,
- Lead (Pb).

The National Ambient Air Quality Standards for the criteria pollutants, known as the NAAQS, are summarized in **Table 1**. For each of the criteria pollutants, the USEPA established primary standards intended to protect public health, and secondary standards for the protection of other aspects of public welfare, such as preventing materials damage, preventing crop and vegetation damage, and assuring good visibility. Areas of the country where air pollution levels consistently exceed these standards may be designated nonattainment by the USEPA.

A nonattainment area is a homogeneous geographical area[3] (usually referred to as an air quality control region) that is in violation of one or more NAAQS and has been designated as nonattainment by the USEPA as provided for under the CAA. Some regulatory provisions, for instance the CAA conformity regulations, apply only to areas designated as nonattainment or maintenance.

A maintenance area describes the air quality designation of an area previously designated nonattainment by the USEPA and subsequently redesignated attainment after emissions are reduced. Such an area remains designated as maintenance for a period up to 20 years at which time the state can apply for redesignation to attainment, provided that the NAAQS were sufficiently maintained throughout the maintenance period.

---

[2] USEPA, Code of Federal Regulations, Title 40, Part 50 (40 CFR Part 50) *National Primary and Secondary Ambient Air Quality Standards (*NAAQS), July 2011.

[3] A homogeneous geographical area, with regard to air quality, is an area, not necessarily bounded by state lines, where the air quality characteristics have been shown to be similar over the whole area. This may include several counties, encompassing more than one state, or may be a very small area within a single county.

Table 1
NATIONAL AMBIENT AIR QUALITY STANDARDS

Pollutant		Primary/ Secondary	Averaging Time	Level	Form
Carbon Monoxide		primary	8-hour	9 ppm	Not to be exceeded more than once per year
			1-hour	35 ppm	
Lead		primary and secondary	Rolling 3 month average	0.15 µg/m3 (1)	Not to be exceeded
Nitrogen Dioxide		primary	1-hour	100 ppb	98th percentile of 1-hour daily maximum concentrations, averaged over 3 years
		primary and secondary	Annual	53 ppb(2)	Annual Mean
Ozone		primary and secondary	8-hour	0.075 ppm (3)	Annual fourth-highest daily maximum 8-hr concentration, averaged over 3 years
Particulate Matter	PM2.5	primary	Annual	12 µg/m^3	annual mean, averaged over 3 years
		secondary	Annual	15 µg/m^3	annual mean, averaged over 3 years
		primary and secondary	24-hour	35 µg/m^3	98th percentile, averaged over 3 years
	PM10	primary and secondary	24-hour	150 µg/m^3	Not to be exceeded more than once per year on average over 3 years
Sulfur Dioxide		primary	1-hour	75 ppb (4)	99th percentile of 1-hour daily maximum concentrations, averaged over 3 years
		secondary	3-hour	0.5 ppm	Not to be exceeded more than once per year

Notes: ppm is parts per million; ppb is parts per billion, and µg/m^3 is micrograms per cubic meter.
Sources: https://www.epa.gov/criteria-air-pollutants/naaqs-table.

(1) In areas designated nonattainment for the Pb standards prior to the promulgation of the current (2008) standards, and for which implementation plans to attain or maintain the current (2008) standards have not been submitted and approved, the previous standards (1.5 µg/m^3 as a calendar quarter average) also remain in effect.

(2) The level of the annual NO_2 standard is 0.053 ppm. It is shown here in terms of ppb for the purposes of clearer comparison to the 1-hour standard level.

(3) Final rule signed October 1, 2015, and effective December 28, 2015. The previous (2008) O_3 standards additionally remain in effect in some areas. Revocation of the previous (2008) O_3 standards and transitioning to the current (2015) standards will be addressed in the implementation rule for the current standards.

(4) The previous SO_2 standards (0.14 ppm 24-hour and 0.03 ppm annual) will additionally remain in effect in certain areas: (1) any area for which it is not yet 1 year since the effective date of designation under the current (2010) standards, and (2)any area for which an implementation plan providing for attainment of the current (2010) standard has not been submitted and approved and which is designated nonattainment under the previous SO_2 standards or is not meeting the requirements of a State Implementation Plan (SIP) call under the previous SO_2 standards (40 CFR 50.4(3)). A SIP call is a USEPA action requiring a state to resubmit all or part of its State Implementation Plan to demonstrate attainment of the required NAAQS.

MECKLENBERG COUNTY AIR QUALITY STATUS

The Airport is located within the Metropolitan Charlotte Interstate Air Quality Region. In the past, Mecklenburg County was designated as nonattainment for carbon monoxide (CO) and nonattainment for 8-Hour ozone; however, on September 18, 1995, the U.S. Environmental Protection Agency (USEPA) determined the area had attained the CO standard and on August 27, 2015, the USEPA determined the area had attained the ozone standard and the region was redesignated to attainment for these pollutants. The area now operates under a maintenance plan for 8-Hour ozone and for CO. Mecklenburg County was determined to be compliant with all other Federally-regulated air quality standards in effect at the time of the preparation of this document.

The construction of the Proposed Project would cause emissions related to construction activities. As such, the Proposed Project at CLT would be subject to the General Conformity provisions under the Clean Air Act (CAA, including the 1990 Amendments), which are required to ensure compliance with the North Carolina State Implementation Plan (SIP).[4] In addition to the CAA, the impacts of the Proposed Project would require assessment under the provisions of the National Environmental Policy Act (NEPA) to determine compliance to the NAAQS.

GENERAL CONFORMITY RULE APPLICABILITY

The General Conformity Rule under the CAA establishes minimum values, referred to as the *de minimis* thresholds, for the criteria and precursor pollutants[5] for the purpose of:

- Identifying Federal actions with project-related emissions that are clearly negligible (*de minimis*);
- Avoiding unreasonable administrative burdens on the sponsoring agency, and;
- Focusing efforts on key actions that would have potential for significant air quality impacts.

The *de minimis* rates vary depending on the severity of the nonattainment area and further depend on whether the general Federal action is located inside an ozone transport region.[6] An evaluation relative to the General Conformity Rule (the Rule),

[4] The SIP is the State air agency document that sets forth the strategy intended to reduce air emissions in an area of poor air quality and maintain the quality of the air relevant to the Federal air quality standards.

[5] Precursor pollutants are pollutants that are involved in the chemical reactions that form the resultant pollutant. Ozone precursor pollutants are NO_x and VOC.

[6] The ozone transport region is a single transport region for ozone (within the meaning of Section 176A(a) of the CAA), comprised of the States of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and the Consolidated Metropolitan Statistical Area that includes the District of Columbia, as given at Section 184 of the CAA.

published under 40 CFR Part 93,[7] is required only for general Federal actions that would cause emissions of the criteria or precursor pollutants, and are:

- Federally-funded or Federally-approved;
- Not a highway or transit project[8];
- Not identified as an exempt project[9] under the CAA;
- Not a project identified on the approving Federal agency's Presumed to Conform list;[10] and,
- Located within a nonattainment or maintenance area.

The Proposed Project at CLT is included in a nonattainment area for ozone and maintenance area for CO. Moreover, the Proposed Project meets the remaining criteria for requiring an evaluation under the General Conformity Rule. When the action requires evaluation under the General Conformity regulations, the net total direct and indirect emissions due to the Federal action may not equal or exceed the relevant *de minimis* thresholds unless:

- An analytical demonstration is provided that shows the emissions would not exceed the NAAQS; or
- Net emissions are accounted for in the SIP planning emissions budget; or
- Net emissions are otherwise accounted for by applying a solution prescribed under 40 CFR Part 93.158.

The Federal *de minimis* thresholds established under the CAA are given in **Table 2**. Conformity to the *de minimis* thresholds is relevant only with regard to those pollutants and the precursor pollutants for which the area is nonattainment or maintenance. Notably, there are no *de minimis* thresholds to which a Federal agency would compare ozone emissions. This is because ozone is not directly emitted from a source. Rather, ozone is formed through photochemical reactions involving emissions of the precursor pollutants NO_x and VOC in the presence of abundant sunlight and heat. Therefore, emissions of ozone on a project level are evaluated based on the rate of emissions of NO_x and VOC.

---

7 USEPA, 40 CFR Part 93, Subpart B, *Determining Conformity of General Federal Actions to State or Federal Implementation Plans*, July 1, 2006.

8 Highway and transit projects are defined under Title 23 U.S. Code and the Federal Transit Act.

9 The Proposed Project is not listed as an action exempt from a conformity determination pursuant to 40 CFR Part 93.153(c). An exempt project is one that the USEPA has determined would clearly have no impact on air quality at the facility, and any net increase in emissions would be so small as to be considered negligible.

10 The provisions of the CAA allow a Federal agency to submit a list of actions demonstrated to have low emissions that would have no potential to cause an exceedence of the NAAQS and are presumed to conform to the CAA conformity regulations. This list would be referred to as the "Presumed to Conform" list. The Federal Aviation Administration Presumed to Conform list was published in the Federal Register on February 12, 2007 (72 FR 6641-6656) and includes airport projects that would not require evaluation under the General Conformity regulations.

Table 2
***DE MINIMIS* THRESHOLDS**

CRITERIA AND PRECURSOR POLLUTANTS	TYPE AND SEVERITY OF NONATTAINMENT AREA	TONS PER YEAR THRESHOLD
Ozone (VOC or NO_x)[1]	Serious nonattainment	50
	Severe nonattainment	25
	Extreme nonattainment	10
	Other areas outside an ozone transport region	100
Ozone (NO_x)[1]	Marginal and moderate nonattainment inside an ozone transport regions[2]	100
	Maintenance	100
Ozone (VOC)[1]	Marginal and moderate nonattainment inside an ozone transport region[2]	50
	Maintenance within an ozone transport region[2]	50
	Maintenance outside an ozone transport region[2]	100
Carbon monoxide (CO)	All nonattainment & maintenance	100
Sulfur dioxide (SO_2)	All nonattainment & maintenance	100
Nitrogen dioxide (NO_2)	All nonattainment & maintenance	100
Coarse particulate matter (PM_{10})	Serious nonattainment	70
	Moderate nonattainment and maintenance	100
Fine particulate matter ($PM_{2.5}$) (VOC, NO_x, NH_3, and SO_x)[3]	All nonattainment and maintenance	100
Lead (Pb)	All nonattainment and maintenance	25

Notes: Federal thresholds that are shaded are applicable to this project.
Code of Federal Regulations (CFR), Title 40, *Protection of the Environment*.
USEPA defines *de minimis* as emissions that are so low as to be considered insignificant and negligible.
[2] An OTR is a single transport region for ozone, comprised of the states of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and the Consolidated Metropolitan Statistical Area that includes the District of Columbia.
Sources: USEPA, 40 CFR Part 93.153(b)(1) & (2).

If the General Conformity evaluation for this air quality assessment were to show that any of the applicable thresholds were equaled or exceeded due to the Proposed Project, further, more detailed analyses to demonstrate conformity would be required, which is referred to as a General Conformity Determination.[11] Conversely, if the General Conformity evaluation were to show that none of the relevant thresholds were equaled or exceeded, the Proposed Project at CLT would be presumed to conform to the applicable North Carolina SIP and no further analysis would be required under the CAA.

TRANSPORTATION CONFORMITY RULE APPLICABILITY

Although airport improvement projects are usually considered under the General Conformity regulations, there can be elements of a Federal action or its alternatives that may require an analysis to demonstrate Transportation Conformity, such as actions relating to transportation plans, programs, projects developed, funded, or

[11] 40 CFR Part 93.153.

approved under Title 23 United States Code (U.S.C.) or the Federal Transit Act (FTA),[12] or involve Federal highways. In such cases, the sponsoring Federal agency would be required to coordinate with the Federal Highway Administration (FHWA), the state Department of Transportation (DOT), and the local metropolitan planning organization (MPO) to assist in completing a Transportation Conformity evaluation.

As with General Conformity, Transportation Conformity regulations apply only to Federal actions located within a nonattainment or maintenance area. The Proposed Project under consideration at CLT would not be developed, funded, or approved by the FHWA or FTA. Therefore, the Transportation Conformity regulations would not apply.

STATE IMPLEMENTATION PLANS

The SIPs must include a strategy for air quality improvement in local areas for each criteria pollutant that exceeds the NAAQS. The SIP must also include a plan to maintain acceptable air quality in areas that did not meet the NAAQS in recent past. As previously stated, Mecklenburg County is considered maintenance for 8-hour ozone and for CO. Therefore, the state of North Carolina has prepared the applicable SIPs, including the Redesignation Demonstration and Maintenance Plan for the Charlotte-Gastonia-Salisbury, North Carolina 2008 8-hour Ozone Marginal Nonattainment Area submitted April 16, 2015 and USEPA approved August 27, 2015 and the Carbon Monoxide Limited Maintenance Plan submitted August 2, 2012 and approved by USEPA on June 20, 2013.

INDIRECT SOURCE REVIEW

Some states require an air quality review when a Federal action has the potential to cause an increase in net emissions from indirect sources. Indirect sources cause emissions that occur later in time or are farther removed from the Federal action. Depending on the state, indirect sources may be identified as motor vehicles on highways, parking at sports and entertainment facilities, or an increase in aircraft operations. The state requirement may be referred to as the indirect source review (ISR) and each state requiring an ISR sets thresholds for increased operation of the indirect sources. When a Federal action has the potential to exceed these thresholds, an air quality review is required to assess the character and impact of the additional emissions and determine whether a permit is required, which is separate from the analyses required under NEPA or the CAA.

The state of North Carolina did have indirect source review thresholds known as the Transportation Facility Permitting (TFP) regulations; however, these regulations were repealed by the North Carolina Division of Air Quality effective January 1, 2015.[13]

[12] USEPA, 40 CFR Part 93.153, *Applicability*, July 1, 2006.
[13] North Carolina Air Quality Rules Subchapter 2Q Air Quality Permit Procedures Section 0600 Transportation Facility Procedures.

AIR QUALITY PERMITS

In order to be in compliance with Federal or state requirements, a proposed project may be required to obtain certain air quality permits before construction or implementation can occur. The Mecklenburg County Air Quality (MCAQ), a division of the Mecklenburg County Land Use and Environmental Services Agency (LUESA), has identified common activities and industry types that are required to have air quality permits in Mecklenburg County. The Proposed Project does not include any abrasive blasting, use of printing presses, or the operation of any combustion sources such as a generator or boiler. Therefore, no air quality permits would be required for construction and operation of the Proposed Project.

AIR QUALITY MONITORING IN REGION

MCAQ maintains four air quality monitoring sites that measure concentrations of criteria air pollutants.[14]

- Garinger (ID 37-119-0041)
- Montclaire (ID 37-119-0042)
- Remount (ID 37-119-0045)
- University Meadows (ID 37-119-0046)

The Remount site, which is the closest to the Airport, is located approximately three miles due east of the Airport and provides nitrogen dioxide concentrations in the near-road environment.

Mecklenburg County overall ambient (outdoor) air quality continues to improve. At the end of 2016, Mecklenburg County monitoring data continues to demonstrate compliance with all federal, health-based air quality standards.

[14] Mecklenburg County Air Quality, 2017-2018 Annual Monitoring Network Plan – Mecklenburg County Air Quality, 2017.

III. EMISSIONS INVENTORY

The impacts to air quality due to the Proposed Project were determined in accordance with the guidelines provided in the Federal Aviation Administration (FAA), *Aviation Emissions and Air Quality Handbook Version 3, Update 1*,[15] and FAA Order 5050.4B[16], *NEPA Implementing Instructions for Airport Actions*, which together with the guidelines of FAA Order 1050.1F,[17] *Environmental Impacts: Policies and Procedures*, constitute compliance with all the relevant provisions of NEPA and the CAA.

The construction and operation of the Proposed Project would result in short-term emissions. The estimated emissions due to the implementation of the Proposed Project is provided in **Table 3**.

CONSTRUCTION EMISSIONS

Short-term temporary air quality impacts would be caused by construction of the Proposed Project expected to begin early 2019 with a duration of up to 36 months. The estimated emissions are provided in **Table 3**, below.

TABLE 3
EMISSIONS INVENTORY
Charlotte Douglas International Airport

EMISSION SOURCES	CRITERIA AND PRECURSOR POLLUTANTS (short tons per year)					
	CO	**VOC**	**NO_X**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
	CAA *DE MINIMIS* THRESHOLDS					
	100	***100***	***100***	***NA***	***NA***	***NA***
CONSTRUCTION YEAR 1						
Pavement Construction	4.3	0.9	4.0	0.0	1.0	0.2
Building Construction	2.8	0.5	2.1	0.0	0.2	0.1
Construction Year 1 Total	*7.1*	*1.4*	*6.1*	*0.0*	*1.2*	*0.3*
CONSTRUCTION YEAR 2						
Pavement Construction	2.0	0.4	1.8	0.0	0.5	0.1
Building Construction	7.5	0.8	2.2	0.0	0.2	0.1
Construction Year 2 Total	*9.5*	*1.2*	*4.0*	*0.0*	*0.7*	*0.2*
CONSTRUCTION YEAR 3						
Building Construction	7.3	0.7	2.0	0.0	0.2	0.1
Construction Year 3 Total	*7.3*	*0.7*	*2.0*	*0.0*	*0.2*	*0.1*

Source: Landrum & Brown analysis, 2019.

[15] FAA, *Aviation Emissions and Air Quality Handbook Version 3, Update 1*, July 2015.
[16] FAA Order 5050.4B, *NEPA Implementing Instructions for Airport Actions*, April 28, 2006.
[17] FAA Order 1050.1F, *Environmental Impacts: Policies and Procedures*, July 16, 2015.

IV. SIGNIFICANCE DETERMINATION

The air quality assessment demonstrates that the Proposed Project would not cause an increase in air emissions above the applicable *de minimis* thresholds. Therefore, the Proposed Project conforms to the SIPs and the CAA and would not create any new violation of the NAAQS, delay the attainment of any NAAQS, nor increase the frequency or severity of any existing violations of the NAAQS. As a result, no adverse impact on local or regional air quality is expected by construction of the Proposed Project. No further analysis or reporting is required under the CAA or NEPA.

Construction of the Proposed Project would result in short term air quality impacts from exhaust emissions from construction equipment and from fugitive dust emissions from vehicle movement and soil excavation. As provided in Table 3, emissions due to construction equipment would not exceed applicable thresholds.

While the construction of the Proposed Project would be expected to contribute to fugitive dust in and around the construction site, the City of Charlotte would ensure that all possible measures would be taken to reduce fugitive dust emissions by adhering to guidelines included in FAA Advisor Circular, *Standard Specifications for Construction of Airports, including Item C-102, Temporary Air and Water Pollution, Soil Erosion and Siltation Control*.[18]

Methods of controlling dust and other airborne particles will be implemented to the maximum possible extent and may include, but not limited to, the following:

- Exposing the minimum area of erodible earth.
- Applying temporary mulch with or without seeding.
- Using water sprinkler trucks.
- Using covered haul trucks.
- Using dust palliatives or penetration asphalt on haul roads.
- Using plastic sheet coverings.

[18] FAA Advisory Circular, *Standard Specifications for Construction of Airports, including Item C-102, Temporary Air and Water Pollution, Soil Erosion and Siltation Control,* December 21, 2018.

V. CLIMATE

AFFECTED ENVIRONMENT

Greenhouse gases (GHG) are gases that trap heat in the earth's atmosphere. Naturally occurring and man-made GHGs primarily include water vapor (H_2O), carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). Sources that require fuel or power at an airport are the primary sources that would generate GHGs. Aircraft are probably the most often cited air pollutant source, but they produce the same types of emissions as ground access vehicles.

Research has shown there is a direct correlation between fuel combustion and GHG emissions. In terms of U.S. contributions, the General Accounting Office (GAO) reports that "domestic aviation contributes about three percent of total carbon dioxide emissions, according to [USEPA] data," compared with other industrial sources including the remainder of the transportation sector (20 percent) and power generation (41 percent).[19] The International Civil Aviation Organization (ICAO) estimates that GHG emissions from aircraft account for roughly three percent of all anthropogenic GHG emissions globally.[20] Climate change due to GHG emissions is a global phenomenon, so the affected environment is the global climate.[21]

CLIMATE ENVIRONMENTAL CONSEQUENCES

Although there are no federal standards for aviation-related GHG emissions, it is well-established that GHG emissions can affect climate.[22] The Council on Environmental Quality (CEQ) has indicated that climate should be considered in NEPA analyses.

The following provides an estimate of GHG emissions. These estimates are provided for information only as no federal NEPA standard for the significance of GHG emissions from individual projects on the environment has been established. Under the No Action Alternative, there would be no increase in project specific GHG emissions. **Table 4** provides the GHG emissions inventory for the Proposed Project.

---

19 *Aviation and Climate Change.* GAO Report to Congressional Committees, (2009).

20 Alan Melrose, "European ATM and Climate Adaptation: A Scoping Study," in *ICAO Environmental Report.* (2010).

21 As explained by the U.S. Environmental Protection Agency, "greenhouse gases, once emitted, become well mixed in the atmosphere, meaning U.S. emissions can affect not only the U.S. population and environment but other regions of the world as well; likewise, emissions in other countries can affect the United States." Climate Change Division, Office of Atmospheric Programs, U.S. Environmental Protection Agency, *Technical Support Document for Endangerment and Cause or Contribute Findings for Greenhouse Gases under Section 202(a) of the Clean Air Act* 2-3 (2009).

22 See *Massachusetts* v. *E.P.A.,* 549 U.S. 497, 508-10, 521-23 (2007).

Table 4
GHG EMISSIONS INVENTORY
Charlotte Douglas International Airport

Metrics	Annual Metric Tons		
	CO_2	**CH_4**	**N_2O**
CONSTRUCTION YEAR 1			
Construction	3,785.1	0.1	0.0
GWP_{100}	1	28	265
CO_{2e}	3,785.1	3.1	4.6
CO_{2e} Net Emissions	3,792.8		
CONSTRUCTION YEAR 2			
Construction	2,937.5	0.1	0.0
GWP_{100}	1	28	265
CO_{2e}	2,937.5	3.9	4.0
CO_{2e} Net Emissions	2,945.3		
CONSTRUCTION YEAR 3			
Construction	1,667.3	0.1	0.01
GWP_{100}	1	28	265
CO_{2e}	1,667.3	2.7	2.1
CO_{2e} Net Emissions	1,672.1		

CO_2EQ: Carbon Dioxide equivalent
CO_2EQ represents the added CO_2, CH_4 and N_2O emissions.
Total emissions may not sum exactly due to rounding.
Source: Landrum & Brown analysis, 2019.

CLIMATE CUMULATIVE IMPACTS

The cumulative impact of this Proposed Project on the global climate when added to other past, present, and reasonably foreseeable future actions is not currently scientifically predictable. Aviation contributes approximately three percent of global CO_2 emissions; this contribution may grow to five percent by 2050. Actions are underway within the U.S. and by other nations to reduce aviation's contribution through such measures as new aircraft technologies to reduce emissions and improve fuel efficiency, renewable alternative fuels with lower carbon footprints, more efficient air traffic management, market-based measures and environmental regulations including an aircraft CO_2 standard. At present, there are no calculations of the extent to which measures individually or cumulatively may affect aviation's CO_2 emissions. Moreover, there are large uncertainties regarding aviation's impact on climate. The FAA, with support from the U.S. Global Change Research Program and its participating federal agencies (e. g., NASA, NOAA, USEPA, and DOE), has developed the ACCRI in an effort to advance scientific understanding of regional

and global climate impacts of aircraft emissions, with quantified uncertainties for current and projected aviation scenarios under changing atmospheric conditions.[23]

[23] Nathan Brown, et. al. *The U.S. Strategy for Tackling Aviation Climate Impacts,* (2010). 27th International Congress of the Aeronautical Sciences.

ATTACHMENT 1
DESCRIPTION OF POLLUTANTS

Ozone (O_3) – Ozone is a pollutant, which is not directly emitted; rather, ozone is formed in the atmosphere through photochemical reactions between nitrogen oxides (NO_X), volatile organic compounds (VOC), sunlight, and heat. Ozone is the primary constituent of smog and, because it is formed in the atmosphere, may result in health problems many miles away from the pollutant sources.

People with lung disease, children, older adults, and people who are active can be affected when ozone levels are unhealthy. Numerous scientific studies have linked ground-level ozone exposure to a variety of problems, including:

- lung irritation that can cause inflammation much like a sunburn;
- wheezing, coughing, pain when taking a deep breath, and breathing difficulties during exercise or outdoor activities;
- permanent lung damage to those with repeated exposure to ozone pollution; and
- aggravated asthma, reduced lung capacity, and increased susceptibility to respiratory illnesses like pneumonia and bronchitis.

Carbon Monoxide (CO) - Carbon monoxide is a colorless, odorless gas primarily associated with the incomplete combustion of fossil fuels in motor vehicles. CO combines with hemoglobin in the bloodstream and reduces the amount of oxygen that can be circulated through the body. High CO concentrations can lead to headaches, aggravation of cardiovascular disease, and impairment of central nervous system functions. CO concentrations can vary greatly over comparatively short distances. Relatively high concentrations are typically found near crowded intersections, along heavily used roadways carrying slow-moving traffic, and at or near ground level. Even under the most severe meteorological and traffic conditions, high concentrations of CO are limited to locations within a relatively short distance of heavily traveled roadways. Overall CO emissions are decreasing as a result of the Federal Motor Vehicle Control Program, which has mandated increasingly lower emission levels for vehicles manufactured since 1973.

Volatile Organic Compound (VOC) – VOCs are gases that are emitted from solids or liquids, such as stored fuel, paint, asphalt, and cleaning fluids. VOCs include a variety of chemicals, some which can have short and long-term adverse health effects. VOCs are precursor pollutants that react with heat, sunlight and nitrogen oxides to form ozone. VOCs can also mix with other gases to form fine particulate matter ($PM_{2.5}$).

Nitrogen Dioxide (NO_2) - Nitrogen gas, normally relatively inert (unreactive), comprises about 80% of the air. At high temperatures (i.e., in the combustion process) and under certain other conditions it can combine with oxygen, forming several different gaseous compounds collectively called nitrogen oxides. Nitric

oxide (NO) and NO_2 are the two most important compounds. Nitric oxide is converted to NO_2 in the atmosphere. NO_2 is a red-brown pungent gas. Motor vehicle emissions are the main source of NO_x in urban areas.

NO_2 is toxic to various animals as well as to humans. Its toxicity relates to its ability to form nitric acid with water in the eye, lung, mucus membrane and skin. In animals, long-term exposure to nitrogen oxides increases susceptibility to respiratory infections lowering their resistance to such diseases as pneumonia and influenza. Laboratory studies show susceptible humans, such as asthmatics, exposed to high concentrations of NO_2 can suffer lung irritation and potentially, lung damage. Epidemiological studies have also shown associations between NO_2 concentrations and daily mortality from respiratory and cardiovascular causes and with hospital admissions for respiratory conditions.

While the NAAQS only addresses NO_2, NO and the total group of nitrogen oxides is of concern. NO and NO_2 are both precursors in the formation of ozone and secondary particulate matter. Therefore, NO_x emissions are typically examined when assessing potential air quality impacts.

Sulfur Dioxide (SO_2) - Sulfur oxides (SO_x) constitute a class of compounds of which SO_2 and sulfur trioxide (SO_3) are of greatest importance. SO_2 is commonly expressed as SO_X since it is a larger subset of SO_2. SO_2 is a colorless gas that is typically identified as having a strong odor and is formed when fuel-containing sulfur, like coal, oil, and/or jet fuel, is burned. SO_2 combines easily with water vapor, forming aerosols of sulfurous acid (H_2SO_3), a colorless, mildly corrosive liquid. This liquid may then combine with oxygen in the air, forming the even more irritating and corrosive sulfuric acid (H_2SO_4). Peak levels of SO_2 in the air can cause temporary breathing difficulty for people with asthma who are active outdoors. Longer-term exposures to high levels of SO_2 gas and particles cause respiratory illness and aggravate existing heart disease.

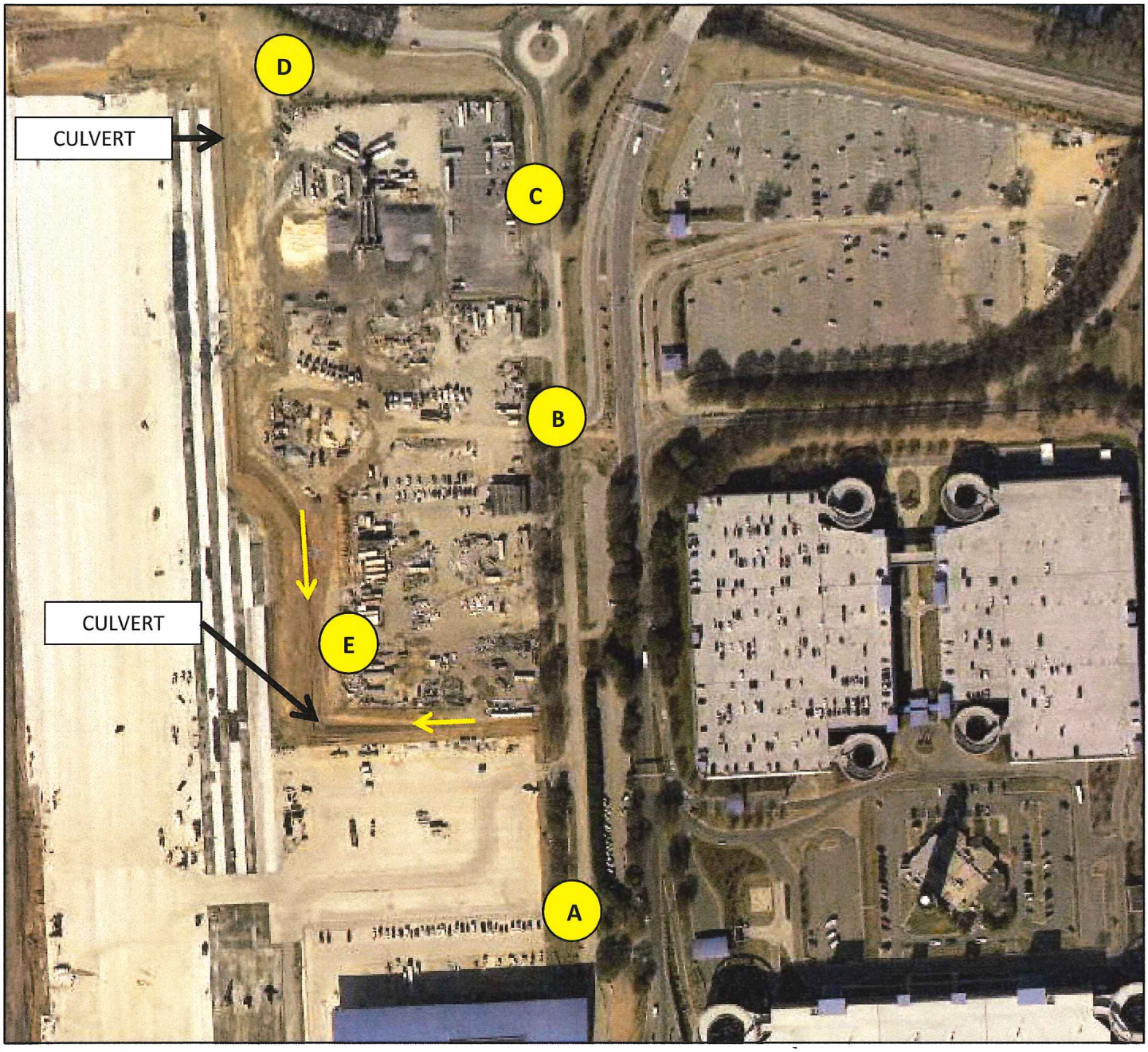
Particulate Matter (PM_{10} and $PM_{2.5}$) - Particulate matter includes both aerosols and solid particles of a wide range of size and composition. PM_{10} is considered coarse particles with a diameter of 10 micrometers or less, and $PM_{2.5}$, fine particles with a diameter of 2.5 micrometers or less. Emissions of $PM_{2.5}$ are a subset of emissions of PM_{10}. Particulate matter can be any particle of these sizes, including dust, dirt, and soot. Smaller particulates are of greater concern because they can penetrate deeper into the lungs than large particles.

$PM_{2.5}$ is directly emitted in combustion exhaust and formed from atmospheric reactions between various gaseous pollutants including NO_x, sulfur oxides, and volatile organic compounds. PM_{10} is generally emitted directly as a result of mechanical processes that crush or grind larger particles or the resuspension of dust, most typically through construction activities and vehicular movements. $PM_{2.5}$ can remain suspended in the atmosphere for days and weeks and can be transported over long distances. PM_{10} generally settles out of the atmosphere rapidly and is not readily transported over large distances.

The principal health effect of airborne particulate matter is on the respiratory system. Short-term exposures to high $PM_{2.5}$ levels are associated with premature mortality, increased hospital admissions, and emergency room visits. Long-term exposures to high $PM_{2.5}$ levels are associated with premature mortality and development of chronic respiratory disease.

Appendix B

BIOLOGICAL RESOURCES



NOTE:

A — Indicates position where photographs were taken.

→ Indicates stormwater flow direction.

N

TITLE: **SITE MAP**	
PROJECT: TREE and WATERS of the UNITED STATES PHOTO LOG	
5501 JOSH BIRMINGHAM PKWY. CHARLOTTE, NORTH CAROLINA	
DATE: 10/25/2018	EXHIBIT: 1

Photograph location A1: Vegetation to be removed along access road, looking south.

Photograph location A2: Vegetation to be removed along access road, looking north.

Photograph location B1: Vegetation to be removed along access road, looking south.

Photograph location B2: Vegetation to be removed along access road, looking north.

Photograph location C: Vegetation to be removed along access road, looking north.

Photograph location D: Vegetation to be removed along fence row, looking east.

Photograph location E1: Non jurisdictional wet weather conveyance, looking north.

Photograph location E2: Non jurisdictional wet weather conveyance, looking south.

TREE REMOVAL DATA

Genus species	Commom name	# of trees	Native status
Acer rubrum	Red maple	7	U.S. native
Amelanchier arborea	Serviceberry	4	U.S. native
Betual nigra	Riverbirch	9	U.S. native
Cornus flordia	Flowering dogwood	2	U.S. native
Lagerstroemia indica	Crepe myrtle	3	Non U.S native
Liquidambar styraciflua	Sweetgum	3	U.S. native
Malus spp.	Crabapple	2	Non U.S native
Platanus occidentalis	American sycamore	4	U.S. native
Prunus serotina	Black cherry	7	U.S. native
Prunus x incamp	Okame cherry	1	Non U.S native
Prunus x yedoensis	Yoshino cherry	1	Non U.S native
Pyrus calleryana	Callery pear	1	Non U.S native
Quercus palustris	Pin oak	4	U.S. native

U.S. Fish & Wildlife Service

Endangered Species, Threatened Species,Federal Species of Concern, and Candidate Species,

Mecklenburg County, North Carolina

Updated: 03-26-2018

Common Name	Scientific name	Federal Status	Record Status
Vertebrate:			
Bald eagle	*Haliaeetus leucocephalus*	BGPA	Current
Carolina darter	*Etheostoma collis collis*	FSC	Current
Northern long-eared bat	*Myotis septentrionalis*	T	Probable/Potential
Invertebrate:			
Carolina creekshell	*Villosa vaughaniana*	FSC	Current
Carolina heelsplitter	*Lasmigona decorata*	E	Current
Rusty-patched bumble bee	*Bombus affinis*	E	Historic
Vascular Plant:			
Carolina Hemlock	*Tsuga caroliniana*	ARS	Historic
Georgia aster	*Symphyotrichum georgianum*	C	Current
Michaux's sumac	*Rhus michauxii*	E	Current
Piedmont aster	*Eurybia mirabilis*	FSC	Current
Schweinitz's sunflower	*Helianthus schweinitzii*	E	Current
Smooth coneflower	*Echinacea laevigata*	E	Current
Nonvascular Plant:			
Lichen:			

Definitions of Federal Status Codes:
E = endangered. A taxon "in danger of extinction throughout all or a significant portion of its range."
T = threatened. A taxon "likely to become endangered within the foreseeable future throughout all or a significant portion of its range."
C = candidate. A taxon under consideration for official listing for which there is sufficient information to support listing. (Formerly "C1" candidate species.)
BGPA =Bald and Golden Eagle Protection Act. See below.
ARS = At Risk Species
FSC=Federal Species of Concern. FSC is an informal term. It is not defined in the federal Endangered Species

Act. In North Carolina, the Asheville and Raleigh Field Offices of the US Fish and Wildlife Service (Service) define Federal Species of Concern as those species that appear to be in decline or otherwise in need of conservation and are under consideration for listing or for which there is insufficient information to support listing at this time.Subsumed under the term "FSC" are all species petitioned by outside parties and other selected focal species identified in Service strategic plans, State Wildlife Action Plans, or Natural Heritage Program Lists.
T(S/A) = threatened due to similarity of appearance. A taxon that is threatened due to similarity of appearance with another listed species and is listed for its protection. Taxa listed as T(S/A) are not biologically endangered or threatened and are not subject to Section 7 consultation. See below.
EXP = experimental population. A taxon listed as experimental (either essential or nonessential). Experimental, nonessential populations of endangered species (e.g., red wolf) are treated as threatened species on public land, for consultation purposes, and as species proposed for listing on private land.
P = proposed. Taxa proposed for official listing as endangered or threatened will be noted as "PE" or "PT", respectively.

Bald and Golden Eagle Protection Act (BGPA):

In the July 9, 2007 Federal Register(72:37346-37372), the bald eagle was declared recovered, and removed (de-listed) from the Federal List of Threatened and Endangered wildlife. This delisting took effect August 8,2007. After delisting, the Bald and Golden Eagle Protection Act (Eagle Act) (16 U.S.C. 668-668d) becomes the primary law protecting bald eagles. The Eagle Act prohibits take of bald and golden eagles and provides a statutory definition of "take" that includes "disturb". The USFWS has developed National Bald Eagle Management Guidelines to provide guidance to land managers, landowners, and others as to how to avoid disturbing bald eagles. For mor information, visit http://www.fws.gov/migratorybirds/baldeagle.htm

Threatened due to similarity of appearance(T(S/A)):

In the November 4, 1997 Federal Register (55822-55825), the northern population of the bog turtle (from New York south to Maryland) was listed as T (threatened), and the southern population (from Virginia south to Georgia) was listed as T(S/A) (threatened due to similarity of appearance). The T(S/A) designation bans the collection and interstate and international commercial trade of bog turtles from the southern population. The T(S/A) designation has no effect on land management activities by private landowners in North Carolina, part of the southern population of the species. In addition to its official status as T(S/A), the U.S. Fish and Wildlife Service considers the southern population of the bog turtle as a Federal species of concern due to habitat loss.

Definitions of Record Status:
Current - the species has been observed in the county within the last 50 years.
Historic - the species was last observed in the county more than 50 years ago.
Obscure - the date and/or location of observation is uncertain.
Incidental/migrant - the species was observed outside of its normal range or habitat.
Probable/potential - the species is considered likely to occur in this county based on the proximity of known records (in adjacent counties), the presence of potentially suitable habitat, or both.

TAXONOMIC_GROUP	SCIENTIFIC_NAME	COMMON_NAME	STATE_STATUS	FEDERAL_STATUS	STATE_RANK	GLOBAL_RANK	HABITAT_COMMENT	COUNTY	COUNTY_STATUS
Vascular Plant	Acmispon helleri	Carolina Birdfoot-trefoil	SC-V		S3	G5T3	open woods over clay soils, roadsides	Mecklenburg	Current
Bird	Ammodramus savannarum	Grasshopper Sparrow	W1,W5		S3B,S1N	G5	pastures and other grasslands [breeding season only]	Mecklenburg	Current
Vascular Plant	Anemone berlandieri	Southern Anemone	E		S2	G4?	thin soils around rock outcrops, usually on basic soil	Mecklenburg	Historical
Vascular Plant	Anemone caroliniana	Prairie Anemone	E		S1	G5	clayey woodlands over mafic rocks	Mecklenburg	Current
Reptile	Apalone spinifera aspera	Gulf Coast Spiny Softshell	W2		S3	G5T5	large streams, ponds, and lakes with sandy bottoms	Mecklenburg	Current
Vascular Plant	Baptisia albescens	Thin-pod White Wild Indigo	W1		S3	G4	open woodlands, clearings	Mecklenburg	Current
Natural Community	Basic Mesic Forest (Piedmont Subtype)				S3S4	G3G4		Mecklenburg	Current
Sawfly, Wasp, Bee, or Ant	Bombus affinis	Rusty-patched Bumble Bee	SR	E	S1	G2	from NC but no locality information at publication	Mecklenburg	Historical
Moss	Brachelyma subulatum	A Moss	W7		S2?	G4G5	bases of trees or on hard surfaces in swampy areas	Mecklenburg	Historical
Moss	Brachythecium rutabulum	Rough-stalked Feather Moss	W7		S2?	G5	trees, humus, rocks in wet forests	Mecklenburg	Historical
Moss	Bruchia texana	Texas Bruchia Moss	W7		SH	G3G5	moist clay or sandy soil in open areas	Mecklenburg	Historical
Vascular Plant	Cardamine dissecta	Dissected Toothwort	SC-V		S2	G4?	rich woods, cove forests, bottomlands	Mecklenburg	Current
Vascular Plant	Carex baileyi	Bailey's Sedge	SR-P		S2	G4	bogs and seeps	Mecklenburg	Historical
Vascular Plant	Carex granularis	Limestone Meadow Sedge	W7		S1?	G5	piedmont bottomlands, coastal plain marl forests	Mecklenburg	Historical
Vascular Plant	Carex projecta	Necklace Sedge	SR-P		S1	G5	bogs, marshes, swamps, brownwater floodplain forests and openings	Mecklenburg	Current
Freshwater Fish	Carpiodes sp. cf. cyprinus	Carolina Quillback	SR		S2	GNR	Yadkin-Pee Dee, Catawba, Broad, and Roanoke drainages	Mecklenburg	Historical
Freshwater Fish	Carpiodes sp. cf. velifer	Atlantic Highfin Carpsucker	SC		S1	GNR	Catawba, Pee Dee, and Cape Fear rivers	Mecklenburg	Historical
Reptile	Cemophora coccinea	Scarlet Snake	W1,W5		S3	G5	sandhills, sandy woods, and other dry woods	Mecklenburg	Current
Caddisfly	Ceraclea tarsipunctata	a caddisfly	W3		S3	G5	Cane Creek, Yadkin River, Long Creek	Mecklenburg	Current
Vascular Plant	Cirsium carolinianum	Carolina Thistle	E		S2	G5	forests and disturbed areas, mostly on basic soils	Mecklenburg	Current
Vascular Plant	Collinsonia tuberosa	Piedmont Horsebalm	SC-V		S1	G3G4	rich hardwood forests	Mecklenburg	Current
Mammal	Condylura cristata pop. 1	Star-nosed Mole - Coastal Plain population	SC		S2	G5T2Q	moist meadows, bogs, swamps, bottomlands [mountain population not of concern]	Mecklenburg	Historical
Vascular Plant	Corallorhiza odontorhiza	Autumn Coral-root	W1		S4?	G5	forests	Mecklenburg	Historical
Bird	Corvus corax	Common Raven	W2		S3	G5	cliffs or ledges for nesting; forests or fields (mainly at high elevations) for foraging [breeding evidence only]	Mecklenburg	Current
Reptile	Crotalus horridus	Timber Rattlesnake	SC		S3	G4	wetland forests in the Coastal Plain; rocky, upland forests elsewhere [NHP tracking only den/hibernacula sites and selected isolated populations]	Mecklenburg	Current
Freshwater Fish	Cyprinella zanema	Santee Chub	W5		S3	G4	Catawba and Broad drainages	Mecklenburg	Current
Vascular Plant	Delphinium exaltatum	Tall Larkspur	E		S2	G3	grassy balds, glades, woodlands, mostly over mafic rock	Mecklenburg	Historical
Vascular Plant	Desmodium sessilifolium	Sessile Tick-trefoil	SC-H		SH	G5	open woodlands	Mecklenburg	Historical
Vascular Plant	Dichanthelium annulum	Ringed Witch Grass	SR-P		S1	G4	dry sandy or rocky open woods and borders of thickets	Mecklenburg	Historical
Moss	Dichelyma capillaceum	Hair Claw Moss	SR-P		S1?	G5	bases of trees, stumps, or on rocks in places submerged at high water	Mecklenburg	Historical
Moth	Digrammia ordinata	Amorpha Angle	SR		S2S3	GNR	sandhills, mainly near the coast	Mecklenburg	Current
Vascular Plant	Dirca palustris	Leatherwood	W1		S3	G4	rich woods, either alluvial or over mafic or calcareous rocks	Mecklenburg	Historical
Natural Community	Dry Basic Oak--Hickory Forest				S2S3	G2G3		Mecklenburg	Current
Natural Community	Dry Oak--Hickory Forest (Piedmont Subtype)				S4	G4G5		Mecklenburg	Current
Natural Community	Dry-Mesic Basic Oak--Hickory Forest (Piedmont Subtype)				S3	G3G4		Mecklenburg	Current
Natural Community	Dry-Mesic Oak--Hickory Forest (Piedmont Subtype)				S4	G4G5		Mecklenburg	Current
Vascular Plant	Dryopteris carthusiana	Spinulose Woodfern	W7		S2	G5	swampy woods	Mecklenburg	Historical
Vascular Plant	Dryopteris cristata	Crested Woodfern	W1		S3	G5	bogs, wet woods	Mecklenburg	Historical
Vascular Plant	Echinacea laevigata	Smooth Coneflower	E	E	S1S2	G2G3	glades, woodlands, and open areas over mafic rocks	Mecklenburg	Current
Vascular Plant	Echinacea pallida	Pale Coneflower	SR-D		S1	G4	mafic glades and barrens	Mecklenburg	Historical
Freshwater Bivalve	Elliptio producta	Atlantic Spike	W3,W5		SU	G3Q	many Atlantic drainages; very difficult to identify	Mecklenburg	Current
Grasshopper or Katydid	Encoptolophus sordidus	Dusky Grasshopper	W4		SNA	G5	from the state, but no locality or habitat information available	Mecklenburg	Historical
Moss	Ephemerum spinulosum	Emerald Dewdrops	W7		S2?	G4G5	moist or drying soil in disturbed, partly sunny areas, or on rotting wood	Mecklenburg	Historical
Vascular Plant	Eragrostis lugens	Mourning Lovegrass	W7		S1	G5	open, wet areas	Mecklenburg	Historical
Freshwater Fish	Etheostoma collis	Carolina Darter	SC		S3	G3	Roanoke, Tar, Neuse, Cape Fear, Yadkin-Pee Dee, and Catawba drainages	Mecklenburg	Current
Vascular Plant	Eupatorium altissimum	Tall Boneset	W1		S2	G5	woodlands, openings, and old fields over mafic rocks	Mecklenburg	Current
Vascular Plant	Eurybia mirabilis	Piedmont Aster	SR-T		S3	G3	rich slopes and bottomlands	Mecklenburg	Current
Bird	Falco peregrinus anatum (syn. Falco peregrinus)	American Peregrine Falcon	E		S1B,S2N	G4T4	cliffs (nesting); coastal ponds and mudflats (foraging in winter) [breeding evidence¿¿½regular wintering sites]	Mecklenburg	Current
Moss	Fissidens fontanus	Water Pocket Moss	W7		S2?	G5	attached to various substrata in stagnant and flowing water, and in coastal estuaries	Mecklenburg	Historical
Moss	Fissidens scalaris	A Plume Moss	SR-O		SH	GNR	bare, disturbed soil of stream banks and roadsides	Mecklenburg	Historical
Natural Community	Floodplain Pool				S2	G3		Mecklenburg	Current
Vascular Plant	Frangula caroliniana	Carolina Buckthorn	W1		S3	G5	rich bottomlands and slopes	Mecklenburg	Current
Dragonfly or Damselfly	Gomphurus dilatatus (syn. Gomphus dilatatus)	Blackwater Clubtail	W3		S3?	G5	rivers	Mecklenburg	Current
Bird	Haliaeetus leucocephalus	Bald Eagle	T	BGPA	S3B,S3N	G5	mature forests near large bodies of water (nesting); rivers, lakes, and sounds (foraging) [breeding evidence only]	Mecklenburg	Current
Vascular Plant	Helianthus schweinitzii	Schweinitz's Sunflower	E	E	S3	G3	open woods, roadsides, and other rights-of-way	Mecklenburg	Current
Moss	Helodium paludosum	Pond Fern Moss	W7		S2?	G3G5	on soil, humus, trees, or logs in swamps, marshes, or meadows	Mecklenburg	Historical
Vascular Plant	Heuchera caroliniana	Carolina Alumroot	W7		S3	G3	rich, rocky woods	Mecklenburg	Historical
Vascular Plant	Hexalectris spicata	Crested Coralroot	SR-P		S2	G5	dry or mesic woods on basic soils	Mecklenburg	Current
Vascular Plant	Hydrophyllum canadense	Blunt-leaf Waterleaf	W6		S4	G5	by streams or springs in rich woods or clearings	Mecklenburg	Historical
Vascular Plant	Hypericum tubulosum	Marsh St. John's-wort	W7		S2?	G4?	wet sites, pools	Mecklenburg	Current
Vascular Plant	Ilex longipes	Georgia Holly	SR-P		S1	G5	upland forests and woodlands	Mecklenburg	Current
Moth	Ipimorpha pleonectusa	Even-lined Sallow	W3		SU	G5	no habitat information	Mecklenburg	Current
Bird	Lanius ludovicianus	Loggerhead Shrike	SC, W2		S2S3B,S3N	G4	fields and pastures [breeding season only]	Mecklenburg	Current
Mammal	Lasiurus intermedius floridanus	Florida Yellow Bat	SC		S1	G5T4	roosts in Spanish moss and other thick vegetation near water, often in longleaf pine habitats	Mecklenburg	Current
Mammal	Lasiurus seminolus	Seminole Bat	W2		S3	G5	forages over open areas, often over water (summer); mainly in southern half of the state	Mecklenburg	Current
Freshwater Bivalve	Lasmigona decorata	Carolina Heelsplitter	E	E	S1	G1	Catawba and Pee Dee drainages (endemic to this area in North Carolina and adjacent South Carolina)	Mecklenburg	Current
Freshwater Fish	Lepomis marginatus	Dollar Sunfish	W2		S3	G5	streams and rivers of lower Piedmont and Coastal Plain	Mecklenburg	Current
Dragonfly or Damselfly	Lestes eurinus	Amber-winged Spreadwing	W2		S3	G5	lakes and ponds with emergent vegetation	Mecklenburg	Current
Bird	Lophodytes cucullatus	Hooded Merganser	W3		S1B,S4N	G5	lakes and ponds, with dead trees for nesting [breeding evidence only]	Mecklenburg	Current
Vascular Plant	Manfreda virginica	Eastern Agave	W1		S3	G5	granite flatrocks, mafic glades, dry outcrops, dry woodlands	Mecklenburg	Current
Vascular Plant	Matelea decipiens	Glade Milkvine	SR-P		S3	G5	thin woodlands over mafic or calcareous rocks	Mecklenburg	Current
Butterfly	Megathymus yuccae	Yucca Giant-Skipper	W2		S3S4	G5	dunes, flatwoods, old fields, and other places near yuccas; host plants -- Yucca species	Mecklenburg	Current
Natural Community	Mesic Mixed Hardwood Forest (Coastal Plain Subtype)				S3	G3		Mecklenburg	Current
Natural Community	Mesic Mixed Hardwood Forest (Piedmont Subtype)				S4	G3G4		Mecklenburg	Current
Moss	Micromitrium megalosporum	A Moss	W7		S2?	G4	unfertilized bare soil, in sun or partial shade	Mecklenburg	Historical
Natural Community	Mixed Moisture Hardpan Forest				S2	G2?		Mecklenburg	Current
Vascular Plant	Monotropsis odorata	Sweet Pinesap	SC-V		S3	G3	dry forests and bluffs	Mecklenburg	Current
Mammal	Mustela frenata	Long-tailed Weasel	W3		S3	G5	forests, brushy areas	Mecklenburg	Current
Mammal	Myotis lucifugus	Little Brown Bat	SR		S2	G3	roosts in buildings (summer), in caves and mines (winter)	Mecklenburg	Current
Bird	Nyctanassa violacea	Yellow-crowned Night-Heron	SR		S2B	G5	inland swamps; woods or thickets on maritime islands [breeding evidence only]	Mecklenburg	Current
Dragonfly or Damselfly	Ophiogomphus incurvatus	Appalachian Snaketail	W2		S3	G3	small to medium streams	Mecklenburg	Current
Vascular Plant	Panax quinquefolius	Ginseng	W1		S3S4	G3G4	cove forests, other rich forests	Mecklenburg	Historical
Vascular Plant	Parthenium auriculatum	Glade Wild Quinine	SR-T		S3	G3G4	glades and openings over mafic rocks	Mecklenburg	Current
Vascular Plant	Parthenium integrifolium var. mabryanum	Mabry's Wild Quinine	W1		S3	G5T3	savannas, pocosin edges, upland pine-oak woods	Mecklenburg	Historical
Mammal	Peromyscus polionotus	Oldfield Deermouse	SC		S1	G5	sandy, fallow fields near South Carolina line	Mecklenburg	Current
Vascular Plant	Philadelphus inodorus	Scentless Mock-orange	W1		S3	G4G5	bluffs, cliffs, and rocky woods, mainly over mafic or calcareous rocks	Mecklenburg	Current
Natural Community	Piedmont Alluvial Forest				S4	G4		Mecklenburg	Current
Natural Community	Piedmont Headwater Stream Forest (Hardpan Subtype)				S2	G2		Mecklenburg	Current
Natural Community	Piedmont Levee Forest (Typic Subtype)				S3S4	G3G4		Mecklenburg	Current
Natural Community	Piedmont/Mountain Semipermanent Impoundment (Piedmont Marsh Subtype)				S4	G4?		Mecklenburg	Current
Vascular Plant	Polygonum tenue	Glade Knotweed	W7		S2?	G5	glades and other thin soil over mafic rock	Mecklenburg	Historical
Butterfly	Pontia protodice	Checkered White	SR		S1S2	G5	fields, pastures; host plants -- mustard species (Family Brassicaceae)	Mecklenburg	Current
Vascular Plant	Primula meadia	Shooting-star	T		S2S3	G5	mafic cliffs, dry coniferous woodlands, and associated nutrient-rich alluvial forests	Mecklenburg	Historical
Vascular Plant	Prunus nigra	Canada Plum	W7		S1?	G4G5	rich forests	Mecklenburg	Historical

Vascular Plant	Pseudognaphalium helleri	Heller's Rabbit-Tobacco	SR-P		S3	G4G5T3T4	dry woodlands, openings, and glades, especially over mafic rocks	Mecklenburg	Current
Butterfly	Pyrgus albescens	White Checkered-Skipper	W3		SU	G5	dry, open habitats, often where sandy, in the southern parts of the state; host plants -- mallows (Sida)	Mecklenburg	Current
Vascular Plant	Quercus bicolor	Swamp White Oak	W1		S2	G5	upland swamp forests	Mecklenburg	Current
Vascular Plant	Quercus palustris	Pin Oak	W1		S2	G5	swamps	Mecklenburg	Historical
Moss	Rhachithecium perpusillum	Budding Tortula	SR-D		S1S2	G4G5	bark of hardwoods	Mecklenburg	Historical
Vascular Plant	Rhus michauxii	Michaux's Sumac	E	E	S2	G2G3	sandhills, sandy forests, woodland, woodland edges	Mecklenburg	Current
Vascular Plant	Salix humilis	Tall Prairie Willow	W6		S3	G5	balds, roadsides and ditches	Mecklenburg	Historical
Butterfly	Satyrium favonius ontario	Northern Oak Hairstreak	SR		S2S3	G4G5T4	oak-dominated woods, usually in dry sites; host plants -- oaks (Quercus)	Mecklenburg	Current
Vascular Plant	Sceptridium jenmanii	Alabama Grape-fern	SC-V		S2	G3G4	moist woods	Mecklenburg	Historical
Mammal	Sciurus niger	Eastern Fox Squirrel	W2		S3	G5	open forests, mainly longleaf pine/scrub oak	Mecklenburg	Current
Moth	Selenisa sueroides	Pale-edged Selenisa Moth	W3		SU	GNR	no habitat information	Mecklenburg	Current
Vascular Plant	Silphium perfoliatum	Northern Cup-plant	T		S1	G5	floodplains	Mecklenburg	Current
Vascular Plant	Silphium terebinthinaceum	Prairie Dock	SR-P		S2	G4G5	diabase glades, other open or semi-open sites over mafic rock	Mecklenburg	Current
Vascular Plant	Solidago rigida var. glabrata	Southeastern Bold Goldenrod	SR-P		S2	G5T4	diabase glades, other open sites over mafic rock	Mecklenburg	Historical
Butterfly	Speyeria diana	Diana Fritillary	W2		S3S4	G3G4	montane and foothill forest edges and openings; host plants -- violets (Viola)	Mecklenburg	Current
Freshwater Bivalve	Strophitus undulatus	Creeper	T		S3	G5	Roanoke, Tar, Neuse, Cape Fear, Yadkin-Pee Dee, Catawba, Broad, and French Broad drainages	Mecklenburg	Current
Vascular Plant	Symphyotrichum georgianum	Georgia Aster	T	C	S3	G3	open woods, roadsides, and other rights-of-way	Mecklenburg	Current
Vascular Plant	Tetragonotheca helianthoides	Pineland Squarehead	W1		S3?	G5	sandy woodlands, forests, roadsides	Mecklenburg	Current
Vascular Plant	Tradescantia virginiana	Virginia Spiderwort	T		S2	G5	rich woods on circumneutral soils	Mecklenburg	Current
Vascular Plant	Trillium rugelii	Southern Nodding Trillium	W1		S3	G3	rich woods and coves over mafic and calcareous rocks	Mecklenburg	Historical
Vascular Plant	Triosteum angustifolium	Narrowleaf Tinker's-weed	W7		S2?	G5	thin woodlands over mafic rocks	Mecklenburg	Historical
Vascular Plant	Tsuga caroliniana	Carolina Hemlock	W5		S2	G2G3	open forests on ridgetops, rocky bluffs, or gorge walls	Mecklenburg	Historical
Natural Community	Upland Depression Swamp Forest				S2S3	G2G3		Mecklenburg	Current
Freshwater Bivalve	Villosa constricta	Notched Rainbow	T		S3	G3	Roanoke, Tar, Neuse, Yadkin-Pee Dee, and Catawba drainages	Mecklenburg	Current
Freshwater Bivalve	Villosa delumbis	Eastern Creekshell	SR		S4	G4	Cape Fear, Lumber, Yadkin-Pee Dee, and Catawba drainages	Mecklenburg	Current
Freshwater Bivalve	Villosa vaughaniana	Carolina Creekshell	E		S3	G2	Cape Fear, Yadkin-Pee Dee, and Catawba drainages (endemic to North Carolina and adjacent South Carolina)	Mecklenburg	Current
Reptile	Virginia valeriae	Smooth Earthsnake	W2		S3	G5	deciduous or mixed woods, usually in mesic soils	Mecklenburg	Current
Animal Assemblage	Waterbird Colony				S3	GNR		Mecklenburg	Current
Moss	Weissia muehlenbergiana	A Moss	W7		S2?	G5	soil among grasses, roadsides	Mecklenburg	Historical
Natural Community	Xeric Hardpan Forest (Basic Hardpan Subtype)				S2	G2G3		Mecklenburg	Current
Natural Community	Xeric Hardpan Forest (Basic Rocky Subtype)				S2	G2		Mecklenburg	Current
Freshwater or Terrestrial Gastropod	Xolotrema caroliniense	Blunt Wedge	W3		S3?	G4	wooded floodplains and slopes, mainly near the Fall Line	Mecklenburg	Current
Mammal	Zapus hudsonius	Meadow Jumping Mouse	W2		S3	G5	open moist fields and brushy places, usually near water	Mecklenburg	Current

Gabriela A. Elizondo

From: Ratzlaff, Allen <allen_ratzlaff@fws.gov>
Sent: Tuesday, August 14, 2018 11:28 AM
To: Gabriela A. Elizondo
Subject: Re: [EXTERNAL] Proposed Tree Removal at Charlotte Douglas International Airport

You are correct. This would be covered by the 4(d) rule.

On Tue, Aug 14, 2018 at 11:09 AM, Gabriela A. Elizondo <GElizondo@landrum-brown.com> wrote:

> Mr. Ratzlaff,
>
> My name is Gaby Elizondo and I am preparing a NEPA document for the proposed construction of a Central Energy Plant (CEP) at Charlotte Douglas International Airport located in Mecklenburg County. The Proposed Action involves the removal of one acre of trees considered potential suitable summer roosting habitat for the federally threatened northern long-eared bat. Tree removal is anticipated to occur in the winter. The existing conditions and the Proposed Action are shown in Exhibit 1 and Exhibit 2, respectively (attached to this email). Could you confirm the proposed project is exempt from further coordination with the USFWS under section 4(d) of the ESA due to its location in Mecklenburg County? Please let me know if you require further information.
>
> Regards,
>
> Gaby Elizondo
>
> **Gabriela A. Elizondo**
>
> Analyst
>
> **Landrum & Brown**
>
> Global Aviation Planning & Development
>
> T +1 513 530 1205 M +1 956 357 2778
>
> landrum-brown.com
>
>

--
Allen Ratzlaff
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
160 Zillicoa Street
Asheville, NC 28801

828-258-3939. x229

Appendix C

HAZARDOUS MATERIALS

AECOM **Environment**

Submitted to
Charlotte Douglas International Airport
Charlotte, NC 28208

Submitted by
AECOM Technical Services of North Carolina, Inc.
Charlotte, NC
60340238
June 2015

Environmental Site Assessment

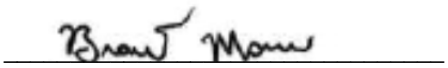
Charlotte Douglas International Airport Rental Car Facilities
Rental Car Road, Charlotte, North Carolina

AECOM **Environment**

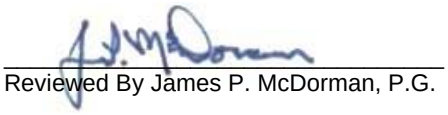
Submitted to
Charlotte Douglas International Airport
Charlotte, NC 28208

Submitted by
AECOM Technical Services of North Carolina, Inc.
Charlotte, NC
60340238
June 2015

Environmental Site Assessment



Prepared By Brandt Morrow, P.G.



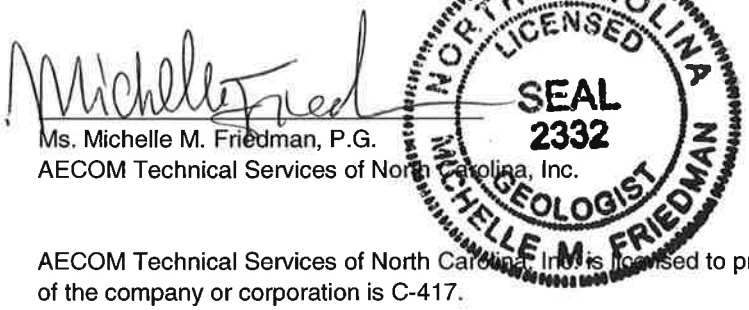
Reviewed By James P. McDorman, P.G.

Reviewed By Michelle Friedman, P.G.

Charlotte Douglas International Airport Rental Car Facilities
Rental Car Road, Charlotte, North Carolina

Professional Certification Page

I, Michelle Friedman, a Licensed Geologist for AECOM Technical Services of North Carolina, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.



Ms. Michelle M. Friedman, P.G.
AECOM Technical Services of North Carolina, Inc.

AECOM Technical Services of North Carolina, Inc. is licensed to practice geology in North Carolina. The certification number of the company or corporation is C-417.

Table of Contents

List of Appendices

List of Tables

List of Figures

List of Acronyms

AECOM	AECOM Technical Services of North Carolina, Inc.
AOC	Area of Concern
AST	Aboveground Storage Tanks
ATC	ATC Associates of North Carolina, P.C.
bgs	below ground surface
CAP	Corrective Action Plan
CLT	Charlotte Douglas International Airport
COC	Constituents of Concern
DRO	Diesel-Range Organics
EPA	United States Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
ESA	Environmental Site Assessment
FID	flame ionization detector
GRO	Gasoline-Range Organics
LNAPL	light non-aqueous phase liquid
LSA	Limited Site Assessment
MACTEC	MACTEC Engineering and Consulting, Inc.
MADEP	Massachusetts Department of Environmental Protection
MSCC	Maximum Soil Contaminant Concentration
MTBE	methyl tert-butyl ether
mg/kg	milligrams per kilogram
NC DENR	North Carolina Department of Environment and Natural Resources
NFA	no further action
OWS	oil water separator
PLI	Prism Laboratories, Inc.
Site	Rental Car Facilities
SVOCs	Semi-Volatile Organic Compound
TBA	Tert-butyl alcohol
Terra Sonic	Terra Sonic International
TIC	Tentatively Identified Compound
TPH	Total Petroleum Hydrocarbons
µg/L	micrograms per liter
UST	Underground Storage Tank
VOC	Volatile Organic Compound
VPH	Volatile Petroleum Hydrocarbons

Executive Summary

AECOM Technical Services of North Carolina, Inc. (AECOM) has prepared this Environmental Site Assessment (ESA) Report for the Site located on Rental Car Road within the Charlotte Douglas International Airport (CLT) in Charlotte, North Carolina. This work was conducted in accordance with an approved proposal submitted to CLT on January 12, 2015. This proposal was developed in response to a Request for Qualifications for Tasks C and D dated September 18, 2014. This report outlines the methods, procedures, and results of the soil and groundwater investigation at multiple areas of concerns (AOCs) identified throughout the Site. This report generally follows the outline provided in the North Carolina Department of Environment and Natural Resources (*NC DENR) Guidelines for Assessment and Corrective Action for Underground Storage Tank (UST) Releases (December 2013)*.

A total of twenty eight (28) temporary monitoring wells and sixteen (16) soil borings were advanced at the Site from February 18-27, 2015. Of the sixteen (16) soil borings, five (5) were initially proposed as temporary wells, however, Geoprobe® refusal was encountered before these borings reached a depth sufficient to collect a groundwater sample.

Soil samples were collected from each temporary monitoring well and soil boring at depths exhibiting soil impacts and/or directly above the water table. Field personnel logged lithology and other important information as the temporary monitoring wells and soil borings were advanced.

Groundwater samples were collected from all temporary monitoring wells and some pre-existing monitoring wells using low-flow techniques. Specific groundwater parameters were recorded at five minute intervals during purging. Samples were not collected until these parameters exhibited stability or the temporary monitoring well purged dry.

The locations of temporary monitoring wells and soil borings were surveyed using a hand held Trimble Geo 7X Global Positioning System (GPS) unit. Top of casing elevations for all temporary monitoring wells were surveyed by field personnel to relative benchmarks before they were properly abandoned by Terra Sonic International (Terra Sonic).

Previous environmental investigations have been conducted at the Avis, Hertz, National, Advantage, former Payless, and Budget facilities.

Light non-aqueous phase liquid (LNAPL) was not encountered during groundwater gauging.

Several soil and groundwater samples contained concentrations above the Soil-to-Water maximum soil contaminant concentrations (MSCCs) and NC DENR 2L groundwater quality standards. However, analytical results of the soil samples collected did not report any results above the Residential Soil Cleanup Levels.

According to Mecklenburg County Well information system there are four (4) private drinking water wells and one (1) irrigation well located on the CLT property. Two (2) irrigation wells previously located on the east side of the Rental Car Facilities and one (1) irrigation well previously located on the east side of the hourly parking deck were abandoned in or about January 2013 as part of the new hourly parking deck construction project.

Based on the results of the current investigation, AECOM recommends CLT report a release at the following facilities:

- Avis. The historical release focused on the former UST field as the source area. Historical soil samples were not collected in the vicinity of the dispenser islands for comparison purposes.
- Budget. Several compounds were detected in groundwater at concentrations above the 2L Standard. Groundwater sampling was not conducted during the previous incident at this facility. The detection of methyl tert-butyl ether (MTBE) suggests the release may have occurred several years ago.
- Dollar. No incidents are associated with this facility, and one compound exceeded the soil MSCC and three compounds detected in groundwater exceeded the 2L Standard.

Also, current investigatory findings in conjunction with historical soil and groundwater data (collected by others) suggest that released substances and contaminated soil at the Site would be potential continuing sources of contaminants. To prevent further contaminant migration into surrounding soil and to groundwater, AECOM recommends excavation of contaminated soil in areas exceeding the action level of 10 mg/kg TPH. Excavation should be carried out for each source of release on the Site for which concentrations exceed the action level; this would also include any impacted soil encountered during UST system closure activities. The bullets below briefly discuss the AOCs at each facility:

- Avis
  - Soil excavation is anticipated in the vicinity of the canopy and may also be required along underground product lines. A groundwater monitoring well should also be installed in this area.
  - Because the motor oil and transmission oil USTs have been removed and closed with NC DENR, no excavation is anticipated in this area.
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent near the OWS and existing UST field.
- Hertz
  - Soil excavation is anticipated in the vicinity of the canopy. The estimated extent of excavation is unknown at this time.
  - Excavation is not anticipated near the diesel AST at the north end of the facility.
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent near the gasoline USTs, the used oil USTs, and former OWS.
- National
  - Excavation is not anticipated in the areas near the removed new oil UST and used oil UST on the west side of the building.
  - Soil excavation is anticipated near the product lines and dispensers.
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent near the out-of-service gasoline USTs.
- Advantage
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent at this facility.
- Payless
  - Soil excavation may be required in the vicinity of the former dispenser.
  - It is anticipated that petroleum impacts will be near the out-of-service gasoline UST, the former UST, and the presumed OWS.
- Budget
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent at this facility, though some may be encountered in the vicinity of the USTs. 472 tons of impacted soils were previously excavated during line and dispenser replacement in 1996.
- Dollar
  - Soil excavation may be required in the vicinity of the diesel dispenser.
  - Soil excavation may be required in the vicinity of the gasoline UST.
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent near the diesel UST and the gasoline dispensers.
- Enterprise
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent at this facility.

1 Introduction

AECOM has prepared this ESA Report on behalf of CLT for the Site located on Rental Car Road in Charlotte, North Carolina (**Figure 1-1**). This report presents the results of the groundwater and soil assessment conducted at these eight (8) facilities from February 18, 2015 through March 9, 2015. Prior to mobilization, a Site specific Health and Safety Plan was generated by the AECOM office health and safety officer. All work was executed under health and safety guidelines documented in this plan, which is located in **Appendix A**. Generally, all work was completed following operating procedures adopted by the United States Environmental Protection Agency (EPA) Science & Ecosystem Support Division as outlined in **Appendix B**. AECOM conducted work as outlined in the Proposal for Environmental Site Assessment dated January 12, 2015 included in **Appendix C**.

2 Description of Field Methods

The following sections provide detail of the methods and procedures used in order to execute the scope of work.

2.1 Temporary Monitoring Well Installations and Soil Boring Advancements

From February 18-27, 2015, temporary monitoring wells and soil borings were advanced at each of the eight (8) rental car facilities at CLT. The locations of these temporary monitoring wells and soil borings are shown on **Figure 2-1**.

AECOM subcontracted Terra Sonic, a North Carolina-Certified Well Driller, to advance the soil borings and install temporary monitoring wells at each AOC. Seventy two (72) hours prior to conducting intrusive activities, AECOM notified North Carolina One Call (NC811) public utility locating service. In addition, AECOM hired a professional utility locating provider, Probe Utility, to further identify subsurface utilities at each facility. Probe Utility used ground penetrating radar locating techniques to determine the locations of the UST fields, piping runs, and underground utilities including but not limited to electric, storm sewer, sanitary sewer, communications, and natural gas. On two (2) separate occasions, the utility locator was summoned to locate utilities at locations where shallow obstructions or an extensive gravel layer were encountered and proposed temporary well locations needed to be moved.

Per AECOM policy, each borehole was hand augered to 5 feet below ground surface (bgs). Soil borings were advanced to the top of the groundwater table or to Geoprobe® refusal, whichever came first. Terra Sonic advanced the temporary wells with either a Geoprobe® 6620DT or a Geoprobe® 7720DT using 5-foot, 2.25-inch diameter macrocores and 1.25-inch drill rods. AECOM attempted to install thirty three (33) temporary monitoring wells as shown on **Figure 2-1** and in **Appendix C**. The investigation was completed in accordance to the Mecklenburg County Groundwater & Wastewater Services subsurface investigation permit (70002227) which is included in **Appendix D**. The temporary monitoring wells were installed in accordance with 15A NCAC 2C.0100 to depths varying from 14-25 feet bgs. Construction details of each temporary monitoring well are listed on **Table 2-1**. Lithology, flame ionization detector (FID) readings, sample collection depths, well construction details, and other pertinent information can be found in boring logs in **Appendix E**.

Each temporary monitoring well was constructed of 1-inch diameter, schedule 40 polyvinyl chloride casing and 10 foot section of 0.010-inch machine slotted well screen. For all temporary monitoring wells, the annular space between the well screen and the borehole was packed with a No. 2 fine filter sand from the termination depth to approximately 2 feet above the top of the screened interval. A minimum 1 foot of bentonite filter pack seal was placed above the filter pack in an attempt to keep any surface water runoff from being introduced directly to the groundwater table. Each temporary monitoring well was completed with an adjustable well cap just below grade to prevent any damage from foot or vehicle traffic. Any deviations from these general procedures are listed below:

- Due to shallow refusal, the locations of the proposed soil boring and temporary monitoring well due south of the Avis canopy were switched in an attempt to collect one groundwater sample near this AOC.
- Temporary wells Avis-TMW-4 and Avis-TMW-5 on the Avis facility were constructed with 5 foot sections of well screen at the depth of Geoprobe refusal. However, these temporary wells were dry when AECOM returned for sampling. Well construction details can be found on **Table 2-1**.
- Due to shallow refusal, the proposed temporary well at the Enterprise facility (Enterprise-TMW-1) and two proposed temporary monitoring wells at the Avis facility (Avis-TMW-2 and Avis-TMW-3) were not installed.

2.2 Soil Sampling

Starting at ground surface, continuous soil samples were collected from new polyethylene 5-foot long 2-inch diameter macrocore liners, and were placed in Ziploc® bags and screened for the presence of organic vapor with an FID. Soil samples were collected in two foot intervals to ensure enough volume for sample collection. Up to two samples were collected for laboratory analysis per boring: one sample was collected from the depth exhibiting the highest FID reading, and a second sample was be collected from just above the water table at the capillary fringe. If FID readings were consistent throughout the

vadose zone or apparent contamination was not encountered, an analytical sample was only collected from directly above the groundwater table. Field screening results for sampled intervals can be found in **Table 2-2** and all field screening results can be found in the boring logs in **Appendix E**.

Soil samples were placed in laboratory-supplied glassware, labeled immediately, and packed into a cooler with a trip blank (as needed) and temperature blank, on ice, for transportation under proper chain of custody protocol to Prism Laboratories, Inc. (PLI), a North Carolina certified laboratory.

2.3 Groundwater Sampling

Groundwater monitoring activities were conducted from February 20, 2015 to March 4, 2015, and were conducted at least 24 hours after installation to allow stabilization to occur. Prior to sampling, depths to groundwater were measured in each temporary monitoring well using an electronic oil/water interface probe. No LNAPL was encountered during gauging. Depth to groundwater and groundwater elevation data can be found on **Table 2-3**. Each temporary monitoring well was purged with Geotech Geopump™ series 2 peristaltic pump and dedicated silicone and polyethylene tubing. Groundwater quality field parameters of pH, temperature, conductivity, oxidation reduction potential, and dissolved oxygen were measured via Yellow Springs Instrument YSI-556® flow thru cell at five (5) minute intervals. Turbidity was also measured at five (5) minute intervals using a field Hach® kit. Once field parameters achieved stability for three (3) consecutive readings, a groundwater sample was collected. A summary of stabilized groundwater parameter data is provided in **Table 2-4** and all parameter data can be found in **Appendix F**. If a temporary monitoring well purged dry, it was allowed sufficient time to recharge before a groundwater sample was collected.

Groundwater samples were placed in laboratory-supplied glassware, labeled immediately, and packed into a cooler with a trip blank (as needed) and temperature blank, on ice, for transportation under chain of custody protocol to PLI.

The results of those measurements and interpretations of each facility's potentiometric surface are represented on **Figures 2-2** through **2-7**. Potentiometric surface maps were not generated for the Avis or Enterprise facilities due to insufficient data.

2.4 Abandonment

On March 9, 2015, Terra Sonic abandoned all temporary monitoring wells constructed at the Site. Each temporary monitoring well was abandoned using a cement slurry introduced from the bottom of the well to the ground surface using a tremie pipe. The ground surface at each temporary well location was restored to the previous condition. The well abandonment activities were performed in accordance with North Carolina Administrative Code Sections 15A NCAC 2C .0113 and .0214, respectively. Well abandonment records can be found in **Appendix G**.

2.5 Laboratory Analysis

2.5.1 Soil Analysis

Soil samples were analyzed in accordance with Table 1 of *Guidelines for Sampling* (NC DENR, December 2013). Analysis was based on the contaminant/s suspected from field observations and a review of historical data of the AOC. Laboratory analysis was based on the suspected contaminants at each AOC as follows:

- Low boiling point fuels were analyzed for volatile organic compounds (VOCs) by EPA 8260B and total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) by EPA 8015C,
- Medium to high boiling point fuels were analyzed for TPH-GRO and TPH-diesel range organics (DRO) by EPA 8015C,
- Heavy fuels were analyzed for TPH-DRO by EPA 8015C,
- Used/Waste Oil was analyzed for VOCs by 8260B, semi-volatile organic compounds (SVOCs) by 8270D, Massachusetts Department of Environmental Protection (MADEP) volatile petroleum hydrocarbons (VPH) and extractable petroleum hydrocarbons (EPH), and lead and chromium by 6010C.

2.5.2 Groundwater Analysis

Groundwater samples were analyzed in accordance with Table 3 of *Guidelines for Sampling* (NC DENR, December 2013). Analysis was based on the contaminant/s suspected from field observations and a review of historical data in the AOC. Laboratory analysis was based on the suspected contaminants at each AOC as follows:

- Low boiling point fuels were analyzed for VOCs by Standard Methods 6200B, VPH by MADEP, and lead by EPA 6010C,
- Medium to high boiling point fuels were analyzed for VOCs by EPA 602, SVOCs by EPA 625 plus 10 largest non-target peaks, and MADEP VPH and EPH,
- Heavy fuels were analyzed for SVOCs by EPA 625 plus 10 largest non-target peaks, and MADEP EPH,
- Used/Waste oil was analyzed for VOCs by 6200B, SVOCs by EPA 625 plus 10 largest non-target peaks, MADEP VPH and EPH, and lead and chromium by EPA 6010C.

2.6 Quality Control

Field personnel wore new nitrile gloves that were changed between each temporary screening point, for soil and groundwater sample collection. The hand auger and macrocore samplers were decontaminated after every borehole. Duplicate samples were collected at an approximate frequency of every twenty primary samples. Trip blanks were included in each cooler sent to PLI, as necessary. The FID was calibrated per manufacturer's specifications.

The interface probe, YSI-556®, and Hach® kit test tubes were cleaned in accordance with appropriate decontamination guidelines using a Liquinox™ and distilled water rinse prior to use at each temporary monitoring well.

Split groundwater and soil samples were collected at the Avis and Budget facilities by their environmental consultant Mid-Atlantic Associates, Inc. If sufficient volume could not be obtained for a split sample, a separate boring was advanced immediately adjacent to the original temporary well/boring to the appropriate depth for sample collection.

2.7 Investigation Derived Waste

Investigation derived waste includes soil from temporary monitoring well installation and soil boring advancement, decontamination water, and purge water generated from the groundwater sampling event. Purge water and soil cuttings were containerized in 55-gallon steel drums (one water, three soil) and stored in the southwest corner of former Payless facility. The drums are labelled as non-hazardous pending analysis and will be disposed of appropriately by CLT.

2.8 Site Survey

From March 3, 2015 to March 9, 2015 AECOM utilized a Trimble Geo 7X GPS unit to acquire the locations of each temporary monitoring well and soil boring relative to the North Carolina State Plane coordinate system. The GPS unit had an accuracy of +/- 0.05 meters. Top of casing and surface elevations for each temporary monitoring well were collected using an autolevel and an extendable survey staff. Survey crews utilized benchmarks and an arbitrary datum elevation of 100 feet assigned to Avis-TMW-1 to collect elevation data. The GPS coordinates were used to plot the borings as shown on **Figure 2-1** and the top of casing elevation data are detailed in **Table 2-1**.

3 Results and Discussion

The following sections outline the results of the soil and groundwater investigation. An overview of the Site is presented, followed by results by rental car facility.

3.1 Site Information

The Site covers approximately 36 acres, covered largely by asphalt, concrete, and various building structures. The Site location shown on a United States Geological Survey topographic map is presented as **Figure 1-1**. With the exception of the former Payless facility, which functions as a construction office and parking for ongoing renovations at CLT, each facility currently operates as rental car facility. A Site layout is shown on Figure 2-1, and the former and current AOCs are identified as part of the job proposal attached in **Appendix C**.

The Site is located in the Piedmont physiographic province that is characterized by moderately level interstream areas separated by broad valleys. Bedrock in the Charlotte, North Carolina area is mapped within the Charlotte Belt lithologic division of the Piedmont. According to the *Geologic Map of North Carolina* (North Carolina Geological Survey, 1985), the bedrock consists of metamorphosed mafic rock, including metagabbro, metadiorite, and mafic plutonic-volcanic complexes.

Competent bedrock in the Piedmont province in North Carolina is typically overlain by variable thicknesses of saprolite and soil, collectively referred to as “overburden.” Groundwater in the Piedmont province occurs in the overburden under unconfined (i.e., water table) conditions, and in the underlying bedrock under both unconfined and confined conditions. Groundwater in the overburden occurs within pore spaces of the unconsolidated medium, including relict bedrock structures (i.e., fractures and foliations). Due to the typical fine-grained nature of saprolite, the formation normally possesses a relatively low permeability and is not generally used for groundwater production. Groundwater in the underlying bedrock occurs along zones of secondary porosity, such as fractures, foliations, solution voids, etc.

Soil encountered during the investigation was comprised mostly of clays and silts. True bedrock was not encountered during the investigation, but in several locations Geoprobe® refusal was encountered suggesting that bedrock is shallow in certain areas of the Site.

The Site is located within the Sugar Creek Watershed, but outside of the Lower Lake Wylie regulated drinking watershed.

3.2 Facility Histories and Sampling Results

3.2.1 Avis Facility

Incident 11324 was opened at the Avis facility in response to soil and groundwater impacts near the gasoline USTs on the Avis facility. On May 3, 1994 a Comprehensive Site Assessment was submitted to NC DENR. On November 21, 1994 a CAP was submitted recommending that monitored natural attenuation be the remedial strategy for the facility. On September 15, 1998 a No Further Action (NFA) was granted.

As discussed in **Sections 2.1** and **2.2**, two (2) soil borings were advanced, and four (4) temporary monitoring wells were installed during the investigation; two (2) temporary monitoring wells could not be installed due to shallow refusal. Groundwater occurred in two (2) of the four (4) temporary monitoring wells. Depth to groundwater ranged from 12.21 feet to 14.01 feet bgs, but was not encountered in the temporary monitoring wells installed to 14 feet and 15.5 feet bgs. A groundwater contour map could not be generated for the Avis facility.

3.2.1.1 Soil Results

TPH-GRO was detected above the NC DENR action level of 10 milligrams per kilogram (mg/kg) in three samples collected from Avis-B1 and Avis-TMW-4 with a maximum concentration of 3,000 mg/kg. Also, multiple VOCs were detected above the soil-to-groundwater MSCCs in the borings advanced south of the canopy (Avis-B1 and Avis-TMW-4), with the highest

concentrations observed in Avis-TMW-4 (6-8 feet bgs). See **Tables 3-1** and **3-2** for a summary of detected TPH and VOC soil analytical results.

No constituents exceeded the soil-to-groundwater MSCCs in the soil samples collected adjacent to the UST field (Avis-TMW-5, Avis-TMW-6, and Avis-B-2) or near the former OWS (Avis-TMW-3). No SVOC constituents were detected above applicable MSCCs, see **Table 3-3** for a summary of detected SVOCs. In addition, no VPH-EPH aliphatic or aromatic hydrocarbons were detected above applicable MSCCs; see **Table 3-4** for a summary of VPH-EPH analytical results.

Chromium was detected above the soil-to-groundwater MSCC in one sample collected from the boring advanced near the estimated location of the former waste oil UST (Avis-TMW-1).

Soil exceedances of the action level and MSCCs are shown on **Figure 3-1**.

3.2.1.2 Groundwater Results

Groundwater samples were collected from TMW-1 and TMW-6 only. MTBE was detected at Avis-TMW-6 at 37 micrograms per liter (µg/L), which exceeds the 2L Standard of 20 µg/L. See **Table 3-5** for a summary of VOC groundwater analytical results. No other VOC, SVOC, VPH-EPH, or metals were detected above the applicable groundwater quality standards.

Groundwater exceedances of the 2L Standard are shown on **Figure 3-2.**

3.2.1.3 Discussion – Avis Facility

A historical release, associated with the UST field, received closure in 1998. The MTBE detection south of the UST field is consistent with the MTBE concentrations at the time of closure and is likely related to the historical release.

Historical soil sampling data was not available in the historic files reviewed. The elevated soil concentrations detected south of the canopy are suggestive of a new release at the Avis facility, which is recommended to be reported to NC DENR. Groundwater was not encountered above the depth of refusal at this location.

Soil excavation near the canopy may be necessary during the decommissioning of the Avis facility. In addition, a groundwater monitoring well should be installed to determine if there are groundwater impacts south of the Avis canopy.

Chromium was detected above the soil-to-groundwater MSCC at Avis-TMW-1 (6-8 feet bgs), but was not detected in groundwater at this location.

3.2.2 Hertz Facility

Incident number 5694 was assigned to the Hertz facility when an estimated 1,400 gallons of gasoline was released at the southwest dispenser in 1990. Several efforts have been made to recover free product from the subsurface. Additionally, several monitoring wells have been installed to delineate the dissolved groundwater plume resulting from this release. Slug test data indicates an estimated groundwater flow velocity of 0.01 feet per day. To date several aggressive fluid vapor recovery events (AFVRs) and groundwater monitoring events have been conducted since the release was documented. Based on the most recent monitoring report available for review (May 2014), multiple VOCs exceed the 2L Standard in groundwater adjacent to the canopy (benzene detected at 5,330 µg/L and MTBE detected at 353 µg/L), but most 2L Standard exceedances are limited to the immediate vicinity of the canopy.

As discussed in **Sections 2.1 and 2.2**, four (4) soil borings and one (1) temporary monitoring well were installed and sampled. In addition, two (2) existing monitoring wells were sampled, and eleven (11) existing monitoring wells were gauged.

Depth to groundwater ranged from 8.82 feet bgs to 13.63 feet bgs, LNAPL was not detected. As shown on **Figure 2-2**, groundwater flow is generally toward the south-southeast.

3.2.2.1 Soil Results

The TPH-GRO concentration exceeded the action level in the sample collected from Hertz-B-3 (8-10 feet bgs) with a concentration of 19 mg/kg. Four VOC constituents exceeded their applicable soil-to-groundwater MSCCs in two samples (2-4 feet bgs and 8-10 feet bgs) collected from Hertz-B3.

No VOC, SVOC, or EPH-VPH constituents exceeded their applicable standards in the soil samples collected near the diesel AST (Hertz-B1), south of the UST field (Hertz-B2), or adjacent to the used oil USTs (Hertz-B-4).

Chromium was detected above the soil-to-groundwater MSCC in the samples collected near the historical OWS (Hertz-TMW-1, sample interval 2-4 feet bgs and 8-10 feet bgs); no other constituents exceeded applicable standards at this location.

Soil exceedances of the action level and MSCC are shown on **Figure 3-3**.

3.2.2.2 Groundwater Results

MTBE exceeded its 2L Standard in the northern-most well sampled (Hertz-MW-11). Benzene, naphthalene, and C5-C8 aliphatics exceeded their 2L Standard in the temporary monitoring well advanced near the former OWS (Hertz-TMW-1). No compounds exceeded their applicable standards in the existing monitoring well adjacent to the used oil USTs (Hertz-MW-5R).

In addition, chromium was detected above the 2L groundwater quality standard in the sample collected from Hertz-TMW-1, two tentatively identified compounds (TICs) were also detected at this location.

Groundwater exceedances of the 2L Standard are shown on **Figure 3-4.**

3.2.2.3 Discussion – Hertz Facility

Soil impacts are present near the canopy; excavation and removal of petroleum-impacted soils is anticipated in this area based on the documented release. The current extent of soil impacts near the canopy has not been defined. Chromium was detected above the-soil to-groundwater MSCC in the two samples analyzed adjacent to the former OWS.

MTBE concentrations in groundwater at the north end of the Site are similar to those observed on the north-adjoining property (and lower than those observed south of the canopy) and may represent migration of the groundwater plume. The lack of VOC impacts in soil near the former OWS (Hertz-TMW-1) suggests the groundwater impacts observed at this location may be associated with the 1990 release, or a release from an undetermined source.

3.2.3 National Facility

Two incident numbers (36083 and 36321) have been assigned to the National facility. The first incident number was a result of piping failure documented in the closure report submitted on May 19, 2006. A Limited Site Assessment (LSA) was conducted as a result of closure sample concentrations exceeding the applicable standard. Additional soil and groundwater sampling resulted in a NFA letter dated October 5, 2007. The second incident number was a result of soil exceedances presented in the *Used and New Oil UST Closure Report* dated July 27, 2007. An LSA was conducted to fulfill requirements not satisfied during closure. As a result of the LSA, a NFA was received on February 18, 2008.

As discussed in **Sections 2.1** and **2.2**, two (2) soil borings and four (4) temporary monitoring well were installed and sampled. In addition, one (1) existing monitoring well was sampled.

Depth to groundwater ranged from 10.40 feet bgs to 11.90 feet bgs. LNAPL was not detected during gauging. As shown on **Figure 2-3**, groundwater flow is expected to be toward the south or southeast.

3.2.3.1 Soil Results

A sample collected from north side of the dispenser canopy, National TMW-1 (8-10 feet bgs), exceeded both the TPH-DRO and TPH-GRO action levels, with a maximum concentration of 50 mg/kg. Eight VOCs exceeded their applicable soil-to-groundwater MSCCs in two samples collected from the north side of the dispensers canopy (National-TMW-1, sample interval 4-6 feet bgs and 8-10 feet bgs), and one sample collected from the south side of the canopy (National-B2). No soil-to-groundwater MSCC exceedances were detected in the samples collected on the north and south side of the UST field containing the out of service gasoline USTs (National-TMW-2 and National-TMW-3). No SVOC or EPH-VPH concentrations exceed the applicable MSCCs.

Chromium concentrations exceeded the soil-to-groundwater MSCC adjacent to the former new oil UST (National-B1) and the boring advanced near the current diesel dispenser (National-TMW-4). No other compounds were detected above their applicable MSCCs at these locations.

Soil exceedances of the action level or MSCC are shown on **Figure 3-5**.

3.2.3.2 Groundwater Results

Benzene and MTBE exceeded their 2L Standards and one SVOC exceeded its 2L Standard in the sample collected from existing well on the south side of the canopy (National-MW-1). See **Table 3-6** for a summary of detected groundwater SVOCs. Eleven VOC constituents, three SVOC constituents, C9-C18 aliphatics, C9-C22 aromatics and C5-C8 aliphatics exceeded their groundwater quality standards in the sample collected from National TMW-1 which is located on the north side of the canopy. In addition, nine TICs were detected in the groundwater sample collected from National TMW-1, see **Table 3-7** for a summary of groundwater TICs. The sample collected from National-TMW-3, located at the south end of the out of service gasoline UST basin had three VOC constituent concentrations with exceedances.

Lead was detected slightly above its 2L Standard in the samples collected from National TMW-2 and National TMW-3. Chromium was detected above the 2L groundwater quality standard in the sample collected from National TMW-4. See **Table 3-8** for a summary of detected EPH-VPH and metals groundwater results.

Groundwater exceedances of the 2L Standard are shown on **Figure 3-6.**

3.2.3.3 Discussion – National Facility

Chromium concentrations in soil are consistent with those documented in association with UST Incident 36321 and are unlikely to indicate a new release.

Based on a 2006 UST closure report, TPH was present at concentrations of up to 2,300 mg/kg beneath the product lines; no other compounds were analyzed. The VOC exceedances detected in soil near the canopy may be related to this release, and indicate that petroleum impacted soils will likely be encountered during the closure of the product lines and dispensers. Groundwater concentrations in National-MW-1 are lower than those detected during the 2006 LSA (i.e. benzene was 2,400 µg/L and MTBE was 310 µg/L), and suggest that these detections are related to the historical release.

The lack of TPH and VOC detections in soil and groundwater near the former USTs suggests there will be limited impacts during the removal of the out-of-service USTs. Soil impacts are also not expected near the previously removed oil USTs or near the diesel AST and OWS.

3.2.4 Advantage Facility

Two incident numbers (AST 85116 and UST 20521) have been assigned to the Advantage facility. The NC DENR database indicated that the AST incident number will be closed. The UST incident number was assigned in response to findings during a closure report submitted on September 2, 1999. A LSA was submitted to NC DENR on June 26, 2000. As a result of the LSA findings, the incident number is now closed.

As discussed in **Sections 2.1** and **2.2**, five (5) temporary monitoring wells were installed and sampled.

Depth to groundwater ranged from 11.70 feet bgs to 19.95 feet bgs. LNAPL was not detected during gauging. The groundwater depth in temporary monitoring wells Advantage-TMW-3 and Advantage-TMW-4 appeared to be anomalously low, and when these elevations are excluded from the groundwater elevation map, groundwater flow is expected to be toward the south (**Figure 2-4**).

3.2.4.1 Soil Results

No analyzed compounds exceeded the soil-to-groundwater MSCC.

3.2.4.2 Groundwater Results

With the exception of tert-butyl alcohol (TBA) in one sample (Advantage-TMW-2), no compounds exceeded their 2L Standard.

Groundwater exceedances of the 2L Standard are shown on **Figure 3-7.**

3.2.4.3 Discussion – Advantage Facility

Based on the results of the current investigation, no additional releases have occurred since UST 20521 was closed. Limited to no petroleum impacted soil is expected to be encountered during demolition at the Advantage facility.

3.2.5 Payless Facility

On June 14, 2007, MACTEC Engineering and Consulting, Inc., on behalf of CLT, submitted a Phase I LSA for the former Payless facility. The assessment included the installation of monitoring wells MW-1 and MW-2, near the former waste oil UST and current diesel dispenser island, respectively. Several soil samples collected exceeded the applicable MSCCs and benzene was detected at concentrations greater than the NC DENR 2L groundwater quality standard. As a result of the LSA, however, a NFA was granted for the release on August 17, 2007. Incident number 12360 is associated with this facility.

As discussed in **Sections 2.1** and **2.2**, two (2) soil borings and four (4) temporary monitoring wells were installed and sampled. In addition, the existing monitoring well (Payless MW-1) was gauged and sampled.

Depth to groundwater ranged from 13.30 feet bgs to 13.70 feet bgs. LNAPL was not detected during gauging. Groundwater flow is expected to be toward the west-southwest (**Figure 2-5**).

3.2.5.1 Soil Results

TPH-GRO, and TPH-DRO were detected at concentrations above their applicable NC DENR action levels at the boring advanced adjacent to the former dispenser (Payless-B1 4-6 feet and 10-12 feet bgs). The maximum TPH-GRO concentration detected was 1,000 mg/kg. In addition, seven VOCs were detected at Payless B1 above applicable MSCCs. No compounds exceeded their applicable standards at the temporary monitoring wells advanced near the current and former USTs (Payless-TMW-1 to Payless-TMW-4).

Chromium was detected above its soil-to-groundwater MSCC in a sample (Payless B2 6-8 feet bgs) collected, adjacent to the suspected OWS. No other compounds exceeded the MSCC at this location.

Soil exceedances of the action level or MSCC are shown on **Figure 3-8**.

3.2.5.2 Groundwater Results

With the exception of TBA exceedances in two (2) samples (Payless-TMW-2 and Payless-TMW-3), no other compounds exceeded their 2L Standard. One TIC was detected in the sample collected from Payless-TMW-2 however.

Groundwater exceedances of the 2L Standard are shown on **Figure 3-9.**

3.2.5.3 Discussion – Payless Facility

Chromium concentrations in soil near the suspected OWS were less than those detected during the 2007 LSA sampling conducted in approximately the same location; the chromium concentrations are therefore not likely to be related to a new release. The lack of other soil impacts suggests petroleum-impacted soils are unlikely to be encountered in the event that an OWS is in this location and must be removed.

Soil impacts near the former dispenser were generally consistent with or slightly higher than those observed during the 2007 LSA. It is likely that petroleum-impacted soils will be encountered during the demolition and excavation around the former dispenser location.

During the 2007 LSA, TBA was not analyzed in groundwater and therefore no comparison can be made. However, based on the lack of detections of other compounds, it is unlikely a new release has occurred to the groundwater. Limited petroleum impacts are anticipated during the removal of the existing UST.

3.2.6 Budget Facility

One 12,000 gallon gasoline UST was installed and two 10,000 gallon USTs were closed in January 1996. On February 8, 1996 a UST closure report and LSA were submitted to NC DENR in response to incident number 16204 for the Budget facility. The reports outlined UST closures and soil over-excavation activities of approximately 472 tons during line and dispenser replacement, closure samples were reportedly below action levels. An NFA was granted on August 20, 1996.

As discussed in **Sections 2.1** and **2.2**, six (6) temporary monitoring wells were installed and sampled.

Depth to groundwater ranged from 13.17 feet bgs to 19.05 feet bgs. LNAPL was not detected during gauging. Groundwater flow is estimated to be toward the east-southeast (**Figure 2-6**).

3.2.6.1 Soil Results

MTBE was detected just above the soil-to-groundwater MSCC in one soil sample collected from a temporary monitoring well advanced adjacent to the existing UST basin (Budget-TMW-6 13-15 feet bgs). No VOCs were detected above the applicable standards at the remaining five temporary monitoring well locations (Budget-TMW-1, Budget-TMW-2, Budget-TMW-3, Budget-TMW-4, and Budget-TMW-5).

Chromium was detected above its soil-to-groundwater MSCC in samples collected during installation of two of the temporary monitoring wells (Budget-TMW-1 12-14 feet bgs and Budget-TMW-2 6-8 feet bgs and 10-12 feet bgs) located adjacent to the OWS and downgradient of the car wash, respectively. No other compounds exceeded their applicable MSCCs at these locations.

Soil exceedances of the MSCC are shown on **Figure 3-10**.

3.2.6.2 Groundwater Results

Five VOCs were detected above their applicable 2L Standards in the four (4) temporary wells installed near the canopy and UST field (Budget-TMW-3 to Budget-TMW-6). In addition, C5-C8 aliphatics exceeded the 2L Standard in the two (2) temporary wells adjacent to the UST field (Budget-TMW-5 and Budget-TMW-6).

Chromium was detected at a concentration that slightly exceeded its 2L Standard at the temporary monitoring well adjacent to the OWS (Budget-TMW-1) but not in the temporary well located downgradient from the car wash (Budget-TMW-2). Lead was detected above the 2L standard in one boring advanced south of the canopy (Budget-TMW-3).

No compounds were detected above 2L Standards in temporary monitoring well Budget-TMW-2.

Groundwater exceedances of the 2L Standard are shown on **Figure 3-11.**

3.2.6.3 Discussion – Budget Facility

Based on the low level of VOC detections in soil and the presence of MTBE in groundwater, the release at the Site is not recent and is likely related to the 1996 release; however, no groundwater samples were taken at that time. Based on the lack of historical groundwater data, AECOM recommends CLT report a release at this Site.

During excavation, clean fill material should be encountered in the dispenser area, though some petroleum impacts may be encountered in the vicinity of the USTs.

3.2.7 Dollar Facility

No historical releases are known in association with the USTs at this facility.

As discussed in **Sections 2.1** and **2.2**, six (6) temporary monitoring wells were installed and sampled.

Depth to groundwater ranged from 8.54 feet bgs to 9.89 feet bgs. LNAPL was not detected during gauging. Groundwater flow is expected to be toward the southeast (**Figure 2-7**).

3.2.7.1 Soil Results

TPH-DRO (92 mg/kg) was detected above the NC DENR action level in a sample collected at 10-11 feet bgs from the temporary well installed near the diesel UST (Dollar-TMW-5).

No other compounds were detected above their applicable standards in the remaining five (5) temporary wells.

Soil exceedances of the action level are shown on **Figure 3-12**.

3.2.7.2 Groundwater Results

Lead was detected above its 2L Standard in the temporary well installed east of the gasoline dispenser island (Dollar-TMW-1). Benzene and TBA were detected above their 2L Standards in the boring advanced on the south side of the gasoline UST (Dollar-TMW-3). No other compounds exceeded the 2L Standard in the remaining five (5) temporary monitoring wells.

Groundwater exceedances of the 2L Standard are shown on **Figure 3-13.**

3.2.7.3 Discussion – Dollar Facility

Based on the detection of TPH-DRO above the NC DENR action level near the diesel dispenser and the presence of benzene and TBA in groundwater near the gasoline USTs, a release may have occurred. AECOM recommends reporting a suspected release to NC DENR.

Based on the current investigation, it is anticipated that petroleum-impacted soils will be encountered near the diesel dispenser and the gasoline UST. The extent of impacts is unknown at this time.

3.2.8 Enterprise Facility

No historical releases are known in association with the USTs at this facility.

As discussed in **Section 2.1** and **2.2**, one soil boring and one temporary monitoring well were installed and sampled. Groundwater was not encountered in the temporary monitoring well; therefore, a groundwater sample was not collected at this facility.

3.2.8.1 Soil Results

Chromium was detected above the soil-to-groundwater MSCC in the one sample that was analyzed for this compound (Enterprise-TMW-1). No other compounds were detected above their applicable standards.

Soil exceedances of the MSCC are shown on **Figure 3-14**.

3.2.8.2 Groundwater Results

A groundwater sample could not be collected at this facility.

3.2.8.3 Discussion – Enterprise Facility

Based on the results of this investigation and the facility's reported exclusive use of an AST for fueling vehicles, petroleum-impacted soils are not anticipated at this facility.

4 Conclusions and Recommendations

No LNAPL was detected as the temporary monitoring wells/soil borings were advanced or during groundwater gauging.

No soil samples contained concentrations greater than the Residential or Industrial/Commercial MSCCs, although an MSCC has not been established for tert-amyl alcohol. No groundwater samples contained concentrations greater than the NC DENR Gross Contamination Levels.

In most cases, temporary wells that exhibited exceedances in groundwater did not have corresponding exceedances in similar constituents in soil. This pattern suggests that some temporary wells were not installed in source areas, the source is no longer contributing to groundwater impacts, or the source has been removed.

Some soil exceedances of the soil-to-groundwater MSCC for chromium may be related to the elevated concentrations of native soil. In a public document published by the North Carolina Department of Agriculture (NC DOA, 2005), soil chromium background levels of 1.5-40 parts per million are typical in North Carolina. The maximum detected chromium concentration was 42 mg/kg during the current investigation. Of the three groundwater samples analyzed for chromium, only one had concentrations in excess of the 2L Standard.

Based on the lack of soil MSCC exceedances for lead, the four (4) 2L Standard exceedances for lead may be a result of lead being a constituent of fine/colloidal particulate matter in the aquifer. This particulate matter, which is identified as part of the field turbidity measurements, can be collected as part of the groundwater sample, as the samples were unfiltered. Preservative present in the sample container may result in some dissolution of particulates and result in an increase in the soluble lead concentration of the sample. The highest concentration of lead was detected in the sample with the highest turbidity measurement (greater than 1,000 NTUs) at the time of sampling.

Based on the results of the current investigation, AECOM recommends CLT report a release at the following facilities:

- Avis. The historical release focused on the former UST field as the source area. Historical soil samples were not collected in the vicinity of the dispenser islands for comparison purposes.
- Budget. Several compounds were detected in groundwater at concentrations above the 2L Standard. Groundwater sampling was not conducted during the previous incident at this facility. The detection of MTBE suggests the release may have occurred several years ago.
- Dollar. No incidents are associated with this facility, and one compound exceeded the soil MSCC and three compounds detected in groundwater exceeded the 2L Standard.

Also, current investigatory findings in conjunction with historical soil and groundwater data (collected by others) suggest that released substances and contaminated soil at the Site would be potential continuing sources of contaminants. To prevent further contaminant migration into surrounding soil and to groundwater, AECOM recommends excavation of contaminated soil in areas exceeding the action level of 10 mg/kg TPH. Excavation should be carried out for each source of release on the Site for which concentrations exceed the action level; this would also include any impacted soil encountered during UST system closure activities. The bullets below briefly discuss the AOCs at each facility:

- Avis
  - Soil excavation is anticipated in the vicinity of the canopy and may also be required along underground product lines. A groundwater monitoring well should also be installed in this area.
  - Because the motor oil and transmission oil USTs have been removed and closed with NC DENR, no excavation is anticipated in this area.
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent near the OWS and existing UST field.

- Hertz
  - Soil excavation is anticipated in the vicinity of the canopy. The estimated extent of excavation is unknown at this time.
  - Excavation is not anticipated near the diesel AST at the north end of the facility.
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent near the gasoline USTs, the used oil USTs, and former OWS.
- National
  - Excavation is not anticipated in the areas near the removed new oil UST and used oil UST on the west side of the building.
  - Soil excavation is anticipated near the product lines and dispensers.
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent near the out-of-service gasoline USTs.
- Advantage
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent at this facility.
- Payless
  - Soil excavation may be required in the vicinity of the former dispenser.
  - It is anticipated that petroleum impacts will be near the out-of-service gasoline UST, the former UST, and the presumed OWS.
- Budget
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent at this facility, though some may be encountered in the vicinity of the USTs. 472 tons of impacted soils were previously excavated during line and dispenser replacement in 1996.
- Dollar
  - Soil excavation may be required in the vicinity of the diesel dispenser.
  - Soil excavation may be required in the vicinity of the gasoline UST.
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent near the diesel UST and the gasoline dispensers.
- Enterprise
  - It is anticipated that petroleum impacts, if encountered, will be limited in extent at this facility.

The collection of background soil samples for chromium may be warranted to assess whether the elevated concentrations can be attributed to released substances or are naturally occurring.

A review of historical reports at the various car rental facilities indicates no wells are located within a 1,500-foot radius of the Site. However, according to Mecklenburg County Well information system there are four (4) private drinking water wells and one (1) irrigation well located on CLT property. AECOM requests CLT provide any information they have regarding the presence, use, and/or abandonment of these wells to ensure they are not and will not be impacted by the petroleum releases at the Site.

5 Statement of Limitations

The assessment was performed based upon information provided by records and documents maintained by facility personnel made available to AECOM; direct observation of operations, equipment, and procedures; and direct verbal communication with Site employees. Information obtained from these sources is assumed to be correct and complete. AECOM will not assume any liability for findings or lack of findings based upon misrepresentation of information presented to the AECOM assessment team or for items not visible, made available, accessible, or present at the Site at the time of the facility visit.

6 References

ATC Associates of North Carolina, P.C., ATC 2014, *Pre-CAP Monitoring Report*, May 12, 2014.

MACTEC Engineering and Consulting, Inc., MACTEC 2007, *Phase I Limited Site Assessment*, June 14, 2007.

NC DENR, 2013. *Guidelines for Sampling*. Change 3, effective December 1, 2013.

NC DOA, 2005. Heavy Metals in North Carolina Soils. Tucker, M. Ray; Hardy, David H.; Stokes, Catherine E. February 2003 rev. October 2005.

Well Information System 3.0, http://meckmap.mecklenburgcountync.gov/WIS_3/index.html, accessed March 30, 2015.

Tables

Table 2-1
Temporary Monitoring Well Construction Details
Charlotte Douglas International Airport - Rental Car Facilities
Rental Car Road, Charlotte, North Carolina

Well ID	Installation Date	Ground Elevation (feet)	TOC Elevation (feet)	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)
Advantage TMW-1	02/23/15	88.22	88.06	20	1	10-20
Advantage TMW-2	02/23/15	87.96	87.78	20	1	10-20
Advantage TMW-3	02/23/15	87.98	87.70	20	1	10-20
Advantage TMW-4	02/23/15	88.01	87.90	20	1	10-20
Advantage TMW-5	02/23/15	87.78	87.61	22	1	12-22
Avis TMW-1	02/24/15	100.17	100.00	24	1	14-24
Avis TMW-4	02/25/15	96.33	96.13	14 (refusal)	1	9-14 (dry)
Avis TMW-5	02/24/15	95.33	95.10	15.5 (refusal)	1	10.5-15.5 (dry)
Avis TMW-6	02/24/15	95.12	94.90	21	1	11-21
Budget TMW-1	02/19/15	84.64	84.48	25	1	15-25
Budget TMW-2	02/19/15	83.86	83.65	20	1	10-20
Budget TMW-3	02/19/15	83.97	83.79	20	1	10-20
Budget TMW-4	02/19/15	84.04	83.86	22	1	12-22
Budget TMW-5	02/19/15	83.46	83.28	23	1	13-23
Budget TMW-6	02/19/15	83.92	83.64	23	1	13-23
Dollar TMW-1	02/23/15	85.92	85.68	18	1	8-18
Dollar TMW-2	02/25/15	86.16	86.01	18	1	8-18
Dollar TMW-3	02/25/15	86.87	86.52	18	1	8-18
Dollar TMW-4	02/25/15	87.32	87.27	20	1	10-20
Dollar TMW-5	02/26/15	87.08	87.13	18	1	8-18
Dollar TMW-6	02/26/15	86.48	86.09	18	1	8-18
Hertz TMW-1	02/20/15	89.91	89.70	18	1	8-18
National TMW-1	02/27/15	90.06	89.84	20	1	10-20
National TMW-2	02/27/15	89.29	89.10	20	1	10-20
National TMW-3	02/27/15	88.65	88.38	22	1	12-22
National TMW-4	02/27/15	88.28	88.04	22	1	12-22
Payless TMW-1	02/20/15	85.56	85.21	25	1	15-25
Payless TMW-2	02/20/15	85.76	85.39	23	1	13-23
Payless TMW-3	02/20/15	86.11	85.86	23	1	13-23
Payless TMW-4	02/20/15	85.82	85.78	23	1	13-23

Notes:

bgs = below ground surface

TOC = top of casing

btoc = below top of casing

All TOC elevations relative to arbitrary datum (Avis TMW-1 TOC) of 100.00 feet

Table 2-2
Field Screening Results
Charlotte Douglas International Airport - Rental Car Facilities
Rental Car Road, Charlotte, North Carolina

Sample ID	Date Completed	Total Depth (feet bgs)	FID (ppm)	Soil Sample Depth (feet bgs)
Advantage TMW-1	02/23/15	20	551.7	6-8
Advantage TMW-2	02/23/15	20	89.6	6-8
Advantage TMW-3	02/23/15	20	2,115	4-6
			423.9	8-10
Advantage TMW-4	02/23/15	20	125.7	0-2
			62.7	8-10
Advantage TMW-5	02/23/15	22	3,047	10-12
Avis TMW-1	02/24/15	24	0.0	10-12
Avis TMW-2	02/25/15	10.5	127.0	4-6
Avis TMW-3	02/25/15	6	161.1	4-5
Avis TMW-4	02/25/15	14	10,658	6-8
			10,658	10-12
Avis TMW-5	02/24/15	15.5	0.0	10-12
Avis TMW-6	02/24/15	21	0.0	8-10
Avis B1	02/25/15	6	3,664	2-4
Avis B2	02/24/15	12	0.0	10-12
Budget TMW-1	02/19/15	25	160.4	12-14
Budget TMW-2	02/19/15	20	2,529	6-8
			3,196	10-12
Budget TMW-3	02/19/15	20	0.0	12-14
Budget TMW-4	02/19/15	22	0.0	13-15
Budget TMW-5	02/19/15	23	202.7	13-15
Budget TMW-6	02/19/15	23	142.0	11-13
			223.7	13-15
Dollar TMW-1	02/23/15	18	0.0	6-8
Dollar TMW-2	02/25/15	18	0.0	6-8
Dollar TMW-3	02/25/15	18	0.0	6-8
Dollar TMW-4	02/25/15	20	0.0	8-10
Dollar TMW-5	02/26/15	18	0.0	10-11
Dollar TMW-6	02/26/15	18	0.0	8-10
Enterprise TMW-1	02/26/15	4.5	0.0	2-4
Enterprise B1	02/26/15	6	0.0	5-6
Hertz TMW-1	02/20/15	18	16,528	2-4
			5,729	8-10
Hertz B1	02/18/15	11	0.0	8-10
Hertz B2	02/18/15	10	0.0	8-10
Hertz B3	02/18/15	11	97.3	2-4
			1,330	8-10
Hertz B4	02/18/15	9	0.0	6-8
National TMW-1	02/27/15	20	7,818	4-6
			1,710	8-10
National TMW-2	02/27/15	20	887.2	8-10
National TMW-3	02/27/15	22	1,116	10-12
National TMW-4	02/27/15	22	136.0	4-6
			311.1	10-12
National B1	02/27/15	2	0.0	0-2
National B2	02/27/15	13	1,997	10-12
Payless TMW-1	02/20/15	25	260.2	13-15
Payless TMW-2	02/20/15	23	0.0	12-14
Payless TMW-3	02/20/15	23	45.7	4-6
Payless TMW-4	02/20/15	23	28.7	8-10
Payless B1	02/20/15	13	16,528	4-6
			10,658	10-12
Payless B2	02/23/15	10	177.6	6-8

Notes:
A reading of 16,528 ppm indicates the maximum detection limit of the instrument was exceeded.
bgs = below ground surface
FID = flame ionization detector
ppm = parts per million

Table 2-3
Groundwater Elevation Data
Charlotte Douglas International Airport - Rental Car Facilities
Rental Car Road, Charlotte, North Carolina

Well ID	Measurement Date	TOC Elevation (feet)	Depth to LNAPL (feet btoc)	LNAPL Thickness (feet)	Depth to Groundwater (feet btoc)	Groundwater Elevation (feet)*
Advantage TMW-1	02/25/15	88.06	ND	ND	11.75	76.31
Advantage TMW-2	02/25/15	87.78	ND	ND	11.70	76.08
Advantage TMW-3	02/27/15	87.70	ND	ND	17.56	70.14
Advantage TMW-4	02/24/15	87.90	ND	ND	18.34	69.56
Advantage TMW-5	02/25/15	87.61	ND	ND	13.55	74.06
Avis TMW-1	02/25/15	100.00	ND	ND	14.01	85.99
Avis TMW-2	02/25/15	97.95	ND	ND	DRY	DRY
Avis TMW-3	02/25/15	97.17	ND	ND	DRY	DRY
Avis TMW-4	02/25/15	96.13	ND	ND	DRY	DRY
Avis TMW-5	02/24/15	95.10	ND	ND	DRY	DRY
Avis TMW-6	03/02/15	94.90	ND	ND	12.21	82.69
Budget TMW-1	02/20/15	84.48	ND	ND	13.45	71.03
Budget TMW-2	02/20/15	83.65	ND	ND	13.17	70.48
Budget TMW-3	02/20/15	83.79	ND	ND	16.26	67.53
Budget TMW-4	02/25/15	83.86	ND	ND	18.43	65.43
Budget TMW-5	02/20/15	83.28	ND	ND	18.55	64.73
Budget TMW-6	02/20/15	83.64	ND	ND	19.05	64.59
Dollar TMW-1	02/27/15	85.68	ND	ND	8.75	76.93
Dollar TMW-2	02/27/15	86.01	ND	ND	8.54	77.47
Dollar TMW-3	02/27/15	86.52	ND	ND	9.37	77.15
Dollar TMW-4	02/27/15	87.27	ND	ND	9.89	77.38
Dollar TMW-5	02/27/15	87.13	ND	ND	9.81	77.32
Dollar TMW-6	02/27/15	86.09	ND	ND	9.26	76.83
Enterprise TMW-1	02/26/15	88.44	ND	ND	DRY	DRY
Hertz TMW-1	02/24/15	89.70	ND	ND	8.82	80.88
Hertz MW-5R	02/24/15	90.23	ND	ND	9.22	81.01
Hertz MW-1	03/04/15	90.64	ND	ND	10.01	80.63
Hertz MW-2R	03/04/15	90.86	ND	ND	10.30	80.56
Hertz MW-3R	03/04/15	91.09	ND	ND	10.89	80.20
Hertz MW-4R	03/04/15	95.37	ND	ND	12.01	83.36
Hertz MW-6	03/04/15	89.98	ND	ND	10.32	79.66
Hertz MW-7	03/04/15	93.52	ND	ND	13.63	79.89
Hertz MW-9	03/04/15	89.57	ND	ND	9.00	80.57
Hertz MW-10	03/04/15	88.57	ND	ND	9.07	79.50
Hertz RW-2R	03/04/15	93.85	ND	ND	10.69	83.16
Hertz MW-11	02/24/15	92.23	ND	ND	11.25	80.98
National TMW-1	03/03/15	89.84	ND	ND	11.90	77.94
National TMW-2	03/02/15	89.10	ND	ND	10.40	78.70
National TMW-3	03/02/15	88.38	ND	ND	10.44	77.94
National TMW-4	03/03/15	88.04	ND	ND	10.44	77.60
National MW-1	03/04/15	89.08	ND	ND	10.91	78.17
Payless TMW-1	02/23/15	85.21	ND	ND	13.41	71.80
Payless TMW-2	02/23/15	85.39	ND	ND	13.70	71.69
Payless TMW-3	02/23/15	85.86	ND	ND	13.58	72.28
Payless TMW-4	02/23/15	85.78	ND	ND	13.30	72.48
Payless MW-1	02/23/15	86.21	ND	ND	13.35	72.86

Notes:

TOC = top of casing

All TOC elevations relative to arbitrary datum (Avis TMW-1 TOC) of 100.00 feet

LNAPL = light non-aqueous phase liquid

btoc = below top of casing

*Groundwater Elevations corrected for the presence of LNAPL if applicable: Groundwater elevation = TOC Elevation-Depth to Water + LNAPL Thickness * 0.85 (specific gravity of diesel)

ND = Not Detected

Table 2-4
Groundwater Quality Parameters Summary
Charlotte Douglas International Airport - Rental Car Facilities
Rental Car Road, Charlotte, North Carolina

Well ID	Date	pH	Temperature (°C)	Specific Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (ntu)
Advantage TMW-1	02/25/15	6.23	17.11	1,356	4.4	1.06	> 1,000
Advantage TMW-2	02/25/15	6.68	17.68	479	-59.2	0.24	431
Advantage TMW-3	02/27/15	NM	NM	NM	NM	NM	NM
Advantage TMW-4	02/25/15	NM	NM	NM	NM	NM	179
Advantage TMW-5	02/25/15	6.25	17.51	409	-49.8	0.06	129
Avis TMW-1	02/25/15	6.23	17.06	74	62.7	4.75	187
Avis TMW-4	03/02/15	NS	NS	NS	NS	NS	NS
Avis TMW-5	03/02/15	NS	NS	NS	NS	NS	NS
Avis TMW-6	03/02/15	6.46	20.61	662	90.0	1.03	45.55
Budget TMW-1	02/20/15	6.66	16.34	109	11.2	1.62	282
Budget TMW-2	02/20/15	6.14	16.68	385	-72.6	0.27	47.2
Budget TMW-3	02/20/15	6.51	14.25	339	-60.9	0.51	> 1,000
Budget TMW-4	02/25/15	NM	NM	NM	NM	NM	NM
Budget TMW-5	02/25/15	NM	NM	NM	NM	NM	NM
Budget TMW-6	02/20/15	6.61	14.18	327	-39.2	1.23	247
Dollar TMW-1	02/27/15	5.56	16.90	165	105.6	3.22	342.1
Dollar TMW-2	02/27/15	5.42	17.61	526	118.2	2.11	144.5
Dollar TMW-3	03/02/15	5.44	17.20	205	140.2	1.20	788.5
Dollar TMW-4	02/27/15	7.99	17.06	132	106.8	6.67	198.2
Dollar TMW-5	02/27/15	6.41	19.15	79	145.6	5.14	324.1
Dollar TMW-6	03/02/15	6.06	17.01	286	83.9	2.89	280.5
Enterprise TMW-1	02/26/15	NS	NS	NS	NS	NS	NS
Hertz TMW-1	02/24/15	5.28	15.39	133	141.2	1.33	431
Hertz MW-5R	02/24/15	4.88	13.65	951	199.5	2.69	31.3
Hertz MW-11	02/24/15	6.02	16.74	216	148.3	1.13	16.4
National TMW-1	03/03/15	5.53	16.92	151	91.1	0.92	131.8
National TMW-2	03/02/15	4.76	18.80	138	96.0	0.32	187.6
National TMW-3	03/02/15	5.59	18.21	366	24.0	1.32	224.3
National TMW-4	03/03/15	5.98	16.80	460	-28.8	0.18	125.2
National MW-1	03/04/15	6.19	17.43	242	107.9	0.45	7.55
Payless TMW-1	02/23/15	6.20	16.26	130	57.2	0.90	10.3
Payless TMW-2	02/23/15	6.30	16.84	266	-25.8	0.21	70.1
Payless TMW-3	02/23/15	6.24	16.43	140	36.5	0.48	243
Payless TMW-4	02/23/15	5.85	18.12	157	73.3	0.71	5.41
Payless MW-1	02/23/15	6.26	16.87	135	67.8	1.45	5.02

Notes:

pH is measured in standard units

°C = degrees Celsius

µS/cm = microSiemens per centimeter

ORP = oxidation reduction potential

mV = milliVolts

mg/L = milligrams per liter

ntu = nephelometric turbidity unit

NM = not enough water to collect parameters

NS = not enough water to sample well

Table 3-1
Summary of February 2015 TPH Soil Results
Hertz Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics
		UST Guidance Action Levels:	**10**	**10**
Hertz B1 (8-10)	5020410-01	2/19/2015	2.1 J	<7.8
Hertz B2 (8-10)	5020410-02	2/19/2015	NS	<5.3
Hertz B3 (2-4)	5020410-03	2/19/2015	NS	<5.3
Hertz B3 (8-10)	5020410-10	2/19/2015	NS	**19**

Table 3-1
Summary of February 2015 TPH Soil Results
Advantage Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics
UST Guidance Action Levels:			**10**	**10**
Advantage TMW-1 (6-8)	5020423-01	2/23/2015	NS	<5.5
Advantage TMW-2 (6-8)	5020423-02	2/23/2015	NS	<4.7
Advantage TMW-3 (4-6)	5020423-03	2/23/2015	NS	<4.6
Advantage TMW-3 (8-10)	5020423-04	2/23/2015	NS	<5.3
Dup 1[1]	5020423-05	2/23/2015	NS	<5.1
Advantage TMW-4 (0-2)	5020423-06	2/23/2015	NS	<5.4
Advantage TMW-4 (8-10)	5020423-07	2/23/2015	NS	<5.9
Advantage TMW-5 (10-12)	5020423-08	2/23/2015	<9.5	NS

Table 3-1
Summary of February 2015 TPH Soil Results
Avis Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics
UST Guidance Action Levels:			**10**	**10**
Avis B1 (2-4)	5020449-02	2/25/2015	NS	**210**
Avis TMW-1 (10-12)	5020437-01	2/24/2015	<0.052	<0.060
Avis TMW-2 (4-6)	5020449-01	2/25/2015	<9.0	NS
Avis TMW-4 (6-8)	5020449-04	2/25/2015	NS	**3,000**
Avis TMW-4 (10-12)	5020449-05	2/25/2015	NS	**560**

Table 3-1
Summary of February 2015 TPH Soil Results
Budget Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics
UST Guidance Action Levels:			**10**	**10**
Budget TMW-3 (12-14)	5020410-07	2/19/2015	NS	<5.0
Budget TMW-4 (13-15)	5020410-08	2/19/2015	NS	<7.0
Budget TMW-5 (13-15)	5020410-09	2/19/2015	NS	<5.8
Budget TMW-6 (11-13)	5020409-10	2/20/2015	NS	<5.2
Budget TMW-6 (13-15)	5020409-11	2/20/2015	NS	<5.1

Table 3-1
Summary of February 2015 TPH Soil Results
Dollar Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics
UST Guidance Action Levels:			**10**	**10**
Dollar TMW-1 (6-8)	5020423-10	2/23/2015	NS	<7.6
Dollar TMW-2 (6-8)	5020471-03	2/25/2015	NS	<5.9
Dollar TMW-3 (6-8)	5020471-01	2/25/2015	NS	<7.6
Dollar TMW-4 (8-10)	5020471-04	2/25/2015	<10	<6.2
Dollar TMW-5 (10-11)	5020471-02	2/26/2015	**92**	<5.8

Table 3-1
Summary of February 2015 TPH Soil Results
National Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics
UST Guidance Action Levels:			**10**	**10**
National B2 (10-12)	5030006-11	2/27/2015	<8.6	7.2
National TMW-1 (4-6)	5030006-03	2/27/2015	<8.4	<6.4
National TMW-1 (8-10)	5030006-04	2/27/2015	**24**	**50**
National TMW-2 (8-10)	5030006-05	2/27/2015	NS	<5.0
National TMW-3 (10-12)	5030006-06	2/27/2015	NS	<5.7
Dup2[2]	5030006-10	2/27/2015	NS	<6.2
National TMW-4 (4-6)	5030006-07	2/27/2015	<8.7	<4.8
National TMW-4 (10-12)	5030006-08	2/27/2015	<9.3	<5.7

Table 3-1
Summary of February 2015 TPH Soil Results
Enterprise Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics
UST Guidance Action Levels:			**10**	**10**
Enterprise B1 (5-6)	5030006-02	2/26/2015	NS	<5.6

Table 3-1
Summary of February 2015 TPH Soil Results
Payless Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics
UST Guidance Action Levels:			**10**	**10**
Payless B1 (4-6)	5020409-06	2/20/2015	**200**	**1,000**
Payless B1 (10-12)	5020409-07	2/20/2015	**170**	**540**
Payless TMW-1 (13-15)	5020409-01	2/20/2015	<8.5	<5.2
Payless TMW-2 (12-14)	5020409-02	2/20/2015	<8.6	<5.5
Payless TMW-3 (4-6)	5020409-03	2/20/2015	<8.7	<5.3
Payless TMW-3 (10-12)	5020409-04	2/20/2015	<8.5	<4.8
Payless TMW-4 (8-10)	5020409-05	2/20/2015	NS	<4.8

Table 3-1
Summary of February 2015 TPH Soil Results
Charlotte Rental Car Facilities
Charlotte Douglas International Airport

Notes:

[1]Field duplicate of sample Advantage TMW-3 (8-10)

[2]Field duplicate of sample National TMW-3

< # - Not detected at the specified detection limit
mg/kg - Milligrams per kilogram
J - Estimated value
NS - Not sampled
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, also known as SW-846, http://www.epa.gov/epawaste/hazard/testmethods/index.htm
TPH - Total Petroleum Hydrocarbons

All results are reported on a dry weight basis and are reported in milligrams per kilogram (mg/kg).

North Carolina DENR UST Section action levels from "Guidelines for Site Checks, Tank Closure, and Initial Abatement for UST Releases", December 2013.

Table 3-2
Summary of February 2015 Detected VOC Soil Results
Hertz Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene (Cumene)	2-Hexanone	MEK (2-Butanone)	MIBK	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	TCE	Xylenes, total
Residential Soil Cleanup Levels:			**782**	**782**	**100**	**14,000**	**18**	**100**	**1,560**	**156**	**1,564**	**70**	**9,385**	**1,200**	**85**	**350**	**313**	**626**	**626**	**626**	**NE**	**1,960**	**213**	**1,200**	**4.6**	**3,129**
MSCC Soil-to-Water:			**8.5**	**8.3**	**0.12**	**24**	**0.0056**	**0.35**	**4.9**	**0.37**	**1.7**	**0.1**	**16**	**0.4**	**0.02**	**0.091**	**0.16**	**4.3**	**1.7**	**3.3**	**0.1**	**0.52**	**0.04**	**4.3**	**0.019**	**4.6**
Hertz B2 (8-10)	5020410-02	2/19/2015	<0.00039	<0.00039	<0.00025	<0.0012	<0.00030	<0.00022	<0.00020	<0.00021	<0.00030	<0.00046	<0.00046	<0.00044	<0.00029	<0.00016	<0.00016	<0.00026	<0.00030	<0.00025	<0.0042	<0.00044	<0.00036	<0.00029	<0.00033	<0.00096
Hertz B3 (2-4)	5020410-03	2/19/2015	0.0093	0.0028 J	<0.00026	<0.0013	**0.0059**	<0.00023	0.0037 J	<0.00022	<0.00032	<0.00049	0.0059 J	<0.00046	0.0075	0.010 J	0.0038 J	<0.00028	<0.00032	<0.00026	0.0075 J	<0.00046	<0.00038	0.0035 J	<0.00035	0.026
Hertz B3 (8-10)	5020410-10	2/19/2015	0.05	0.018	<0.00033	0.63 E	<0.00040	<0.00029	<0.00026	0.0099	<0.00040	**0.17**	0.58 E	0.051 J	<0.00038	**0.21**	0.099	0.01	0.0048 J	0.0028 J	**3.7 E**	0.0085 J	<0.00048	<0.00039	<0.00044	0.018 J
Hertz B4 (6-8)	5020410-04	2/19/2015	<0.00040	<0.00040	<0.00025	<0.0013	<0.00030	<0.00022	<0.00020	<0.00021	<0.00031	<0.00047	<0.00047	<0.00045	<0.00029	<0.00017	<0.00017	<0.00027	<0.00031	<0.00025	<0.0043	<0.00045	<0.00037	<0.00030	<0.00034	<0.00098
Hertz TMW-1 (2-4)	5020409-09	2/20/2015	<0.00053	<0.00052	<0.00033	0.13	<0.00040	<0.00029	<0.00027	<0.00028	0.014	<0.00062	<0.00062	<0.00059	<0.00039	<0.00022	<0.00022	<0.00035	<0.00041	<0.00033	<0.0057	<0.00059	<0.00049	<0.00040	<0.00045	<0.0013
Hertz TMW-1 (8-10)	5020409-08	2/20/2015	<0.00051	<0.00050	<0.00032	<0.0016	<0.00039	<0.00028	<0.00026	<0.00027	0.0036 J	<0.00060	<0.00060	<0.00057	<0.00037	<0.00021	<0.00021	<0.00034	<0.00040	<0.00032	<0.0055	<0.00057	<0.00047	<0.00038	<0.00043	<0.0012

Table 3-2
Summary of February 2015 Detected VOC Soil Results
Advantage Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene (Cumene)	2-Hexanone	MEK (2-Butanone)	MIBK	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	TCE	Xylenes, total
Residential Soil Cleanup Levels:			**782**	**782**	**100**	**14,000**	**18**	**100**	**1,560**	**156**	**1,564**	**70**	**9,385**	**1,200**	**85**	**350**	**313**	**626**	**626**	**626**	**NE**	**1,960**	**213**	**1,200**	**4.6**	**3,129**
MSCC Soil-to-Water:			**8.5**	**8.3**	**0.12**	**24**	**0.0056**	**0.35**	**4.9**	**0.37**	**1.7**	**0.1**	**16**	**0.4**	**0.02**	**0.091**	**0.16**	**4.3**	**1.7**	**3.3**	**0.1**	**0.52**	**0.04**	**4.3**	**0.019**	**4.6**
Advantage TMW-1 (6-8)	5020423-01	2/23/2015	<0.00042	<0.00041	<0.00026	<0.0013	<0.00032	<0.00023	<0.00021	<0.00022	<0.00032	<0.00049	<0.00049	<0.00047	<0.00031	<0.00018	<0.00017	<0.00028	<0.00033	<0.00026	<0.0045	<0.00047	<0.00038	<0.00031	<0.00035	<0.0010
Advantage TMW-2 (6-8)	5020423-02	2/23/2015	<0.00041	<0.00041	<0.00026	<0.0013	<0.00031	<0.00023	<0.00021	<0.00022	<0.00032	<0.00049	<0.00049	<0.00046	<0.00030	0.0023 J	<0.00017	<0.00028	<0.00032	<0.00026	0.0069 J	<0.00046	<0.00038	<0.00031	<0.00035	<0.0010
Advantage TMW-3 (4-6)	5020423-03	2/23/2015	<0.00043	<0.00043	<0.00027	<0.0014	<0.00033	<0.00024	<0.00022	<0.00023	<0.00033	<0.00051	<0.00051	<0.00048	<0.00032	<0.00018	<0.00018	<0.00029	<0.00033	<0.00027	<0.0047	<0.00048	<0.00040	<0.00032	<0.00036	<0.0011
Advantage TMW-3 (8-10)	5020423-04	2/23/2015	<0.00039	<0.00039	<0.00025	<0.0012	<0.00030	<0.00022	<0.00020	<0.00021	<0.00030	<0.00046	<0.00046	<0.00043	<0.00029	<0.00016	<0.00016	<0.00026	<0.00030	<0.00025	<0.0042	<0.00044	<0.00036	<0.00029	<0.00033	<0.00096
Dup 1[1]	5020423-05	2/23/2015	<0.00039	<0.00039	<0.00025	<0.0013	<0.00030	<0.00022	<0.00020	<0.00021	<0.00030	<0.00046	<0.00046	<0.00044	<0.00029	<0.00016	<0.00016	<0.00026	<0.00030	<0.00025	<0.0043	<0.00044	<0.00036	<0.00029	<0.00033	<0.00096
Advantage TMW-4 (0-2)	5020423-06	2/23/2015	<0.00050	<0.00049	<0.00031	<0.0016	<0.00038	<0.00028	<0.00025	<0.00027	<0.00039	<0.00059	<0.00059	<0.00056	<0.00037	<0.00021	0.064	<0.00033	<0.00039	<0.00032	<0.0054	<0.00056	<0.00046	<0.00037	<0.00042	<0.0012
Advantage TMW-4 (8-10)	5020423-07	2/23/2015	<0.00047	<0.00047	<0.00030	<0.0015	<0.00036	<0.00026	<0.00024	<0.00025	<0.00037	<0.00056	<0.00056	<0.00053	<0.00035	0.029	<0.00020	<0.00032	<0.00037	<0.00030	0.027 J	<0.00053	<0.00043	<0.00035	<0.00040	<0.0012

Table 3-2
Summary of February 2015 Detected VOC Soil Results
Avis Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene (Cumene)	2-Hexanone	MEK (2-Butanone)	MIBK	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	TCE	Xylenes, total
Residential Soil Cleanup Levels:			**782**	**782**	**100**	**14,000**	**18**	**100**	**1,560**	**156**	**1,564**	**70**	**9,385**	**1,200**	**85**	**350**	**313**	**626**	**626**	**626**	**NE**	**1,960**	**213**	**1,200**	**4.6**	**3,129**
MSCC Soil-to-Water:			**8.5**	**8.3**	**0.12**	**24**	**0.0056**	**0.35**	**4.9**	**0.37**	**1.7**	**0.1**	**16**	**0.4**	**0.02**	**0.091**	**0.16**	**4.3**	**1.7**	**3.3**	**0.1**	**0.52**	**0.04**	**4.3**	**0.019**	**4.6**
Avis B1 (2-4)	5020449-02	2/25/2015	**25**	6.9	0.054	<0.0014	**0.0057**	<0.00025	2.4	<0.00024	0.23	<0.00054	<0.00054	<0.00051	<0.00033	<0.00019	**4.8**	0.19	**3.3**	0.093	<0.0049	<0.00051	<0.00042	0.015	<0.00038	**13**
Avis B2 (10-12)	5020437-02	2/24/2015	<0.00054	<0.00053	<0.00034	<0.0017	<0.00041	<0.00030	<0.00027	<0.00029	<0.00041	<0.00063	<0.00063	<0.00060	<0.00039	<0.00022	<0.00022	<0.00036	<0.00042	<0.00034	<0.0058	<0.00060	<0.00049	<0.00040	<0.00045	<0.0013
Avis TMW-1 (10-12)	5020437-01	2/24/2015	<0.00042	<0.00041	<0.00026	<0.0013	<0.00032	<0.00023	<0.00021	<0.00022	<0.00032	<0.00049	<0.00049	<0.00047	<0.00031	<0.00017	<0.00017	<0.00028	<0.00032	<0.00026	<0.0045	<0.00047	<0.00038	<0.00031	<0.00035	<0.0010
Avis TMW-3 (4-5)	5020449-03	2/25/2015	<0.00047	<0.00046	<0.00029	<0.0015	<0.00036	<0.00026	<0.00023	<0.00025	<0.00036	<0.00055	<0.00055	<0.00052	<0.00034	<0.00020	<0.00019	<0.00031	<0.00036	<0.00030	<0.0051	<0.00052	<0.00043	<0.00035	<0.00040	<0.0011
Avis TMW-4 (6-8)	5020449-04	2/25/2015	**160**	**46**	**1.5**	<1.1	**11**	<0.31	**49**	<0.31	**5.9**	<0.33	<0.24	<0.26	<0.32	<0.31	**28**	**11**	**24**	2.7	<1.2	<0.13	<0.10	**140**	<0.32	**260**
Avis TMW-4 (10-12)	5020449-05	2/25/2015	**50**	**14**	**0.53**	<0.21	**1.5**	<0.058	**13**	<0.057	1.7	<0.062	<0.045	<0.048	<0.059	<0.057	**11**	3.9	**7.4**	0.9	<0.23	<0.023	<0.019	**26**	<0.060	**68**
Avis TMW-5 (10-12)	5020437-03	2/24/2015	<0.00044	<0.00043	<0.00028	<0.0014	<0.00033	<0.00024	<0.00022	<0.00023	<0.00034	<0.00052	<0.00052	<0.00049	<0.00032	<0.00018	<0.00018	<0.00029	<0.00034	<0.00028	<0.0048	<0.00049	<0.00040	<0.00033	<0.00037	<0.0011
Avis TMW-6 (8-10)	5020437-04	2/24/2015	<0.00061	<0.00060	<0.00038	<0.0019	<0.00046	<0.00034	<0.00031	<0.00032	<0.00047	<0.00072	<0.00072	<0.00068	<0.00045	<0.00025	<0.00025	<0.00041	<0.00047	<0.00039	<0.0066	<0.00068	<0.00056	<0.00046	<0.00052	<0.0015

Table 3-2
Summary of February 2015 Detected VOC Soil Results
Budget Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene (Cumene)	2-Hexanone	MEK (2-Butanone)	MIBK	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	TCE	Xylenes, total
Residential Soil Cleanup Levels:			**782**	**782**	**100**	**14,000**	**18**	**100**	**1,560**	**156**	**1,564**	**70**	**9,385**	**1,200**	**85**	**350**	**313**	**626**	**626**	**626**	**NE**	**1,960**	**213**	**1,200**	**4.6**	**3,129**
MSCC Soil-to-Water:			**8.5**	**8.3**	**0.12**	**24**	**0.0056**	**0.35**	**4.9**	**0.37**	**1.7**	**0.1**	**16**	**0.4**	**0.02**	**0.091**	**0.16**	**4.3**	**1.7**	**3.3**	**0.1**	**0.52**	**0.04**	**4.3**	**0.019**	**4.6**
Budget TMW-1 (12-14)	5020410-05	2/19/2015	<0.00048	<0.00047	<0.00030	<0.0015	<0.00036	<0.00027	<0.00024	<0.00026	<0.00037	<0.00057	<0.00057	<0.00053	<0.00035	<0.00020	<0.00020	<0.00032	<0.00037	<0.00030	<0.0052	<0.00054	<0.00044	<0.00036	<0.00041	<0.0012
Budget TMW-2 (6-8)	5020410-06	2/19/2015	<0.00040	<0.00039	<0.00025	0.073	<0.00030	0.0061	<0.00020	<0.00021	0.27 E	<0.00047	0.014 J	<0.00044	<0.00029	<0.00017	<0.00016	<0.00026	<0.00031	<0.00025	<0.0043	<0.00044	<0.00036	<0.00030	<0.00034	<0.00097
Budget TMW-2 (10-12)	5020410-11	2/19/2015	<0.00043	<0.00043	<0.00027	0.061	<0.00033	0.011	<0.00022	<0.00023	0.025	<0.00051	0.0096 J	<0.00048	<0.00032	<0.00018	<0.00018	<0.00029	<0.00034	<0.00027	0.0070 J	<0.00048	<0.00040	<0.00032	0.0042 J	<0.0011
Budget TMW-3 (12-14)	5020410-07	2/19/2015	<0.00045	<0.00044	<0.00028	<0.0014	<0.00034	<0.00025	<0.00022	<0.00024	<0.00035	<0.00053	<0.00053	<0.00050	<0.00033	<0.00019	<0.00018	<0.00030	<0.00035	<0.00028	<0.0048	<0.00050	<0.00041	<0.00034	<0.00038	<0.0011
Budget TMW-4 (13-15)	5020410-08	2/19/2015	<0.00050	<0.00050	<0.00032	<0.0016	<0.00038	<0.00028	<0.00025	<0.00027	<0.00039	<0.00060	0.0055 J	<0.00056	<0.00037	0.0031 J	<0.00021	<0.00034	<0.00039	<0.00032	<0.0055	<0.00056	<0.00046	<0.00038	<0.00043	<0.0012
Budget TMW-5 13-15)	5020410-09	2/19/2015	<0.00054	<0.00054	<0.00034	<0.0017	<0.00041	<0.00030	<0.00027	<0.00029	<0.00042	<0.00064	<0.00064	<0.00061	<0.00040	<0.00023	<0.00022	<0.00036	<0.00042	<0.00034	<0.0059	<0.00061	<0.00050	<0.00041	<0.00046	<0.0013
Budget TMW-6 (11-13)	5020409-10	2/20/2015	<0.00041	<0.00040	<0.00026	<0.0013	<0.00031	<0.00023	<0.00020	<0.00022	<0.00032	<0.00048	<0.00048	<0.00045	<0.00030	0.04	<0.00017	<0.00027	<0.00032	<0.00026	0.030 J	<0.00046	<0.00037	<0.00031	<0.00035	<0.0010
Budget TMW-6 (13-15)	5020409-11	2/20/2015	<0.00037	<0.00037	<0.00023	0.052	<0.00028	<0.00021	<0.00019	0.01	<0.00029	<0.00044	<0.00044	<0.00041	<0.00027	**0.1**	<0.00015	<0.00025	<0.00029	<0.00023	0.080 J	<0.00041	<0.00034	<0.00028	<0.00031	<0.00091

Table 3-2
Summary of February 2015 Detected VOC Soil Results
Dollar Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene (Cumene)	2-Hexanone	MEK (2-Butanone)	MIBK	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	TCE	Xylenes, total
Residential Soil Cleanup Levels:			**782**	**782**	**100**	**14,000**	**18**	**100**	**1,560**	**156**	**1,564**	**70**	**9,385**	**1,200**	**85**	**350**	**313**	**626**	**626**	**626**	**NE**	**1,960**	**213**	**1,200**	**4.6**	**3,129**
MSCC Soil-to-Water:			**8.5**	**8.3**	**0.12**	**24**	**0.0056**	**0.35**	**4.9**	**0.37**	**1.7**	**0.1**	**16**	**0.4**	**0.02**	**0.091**	**0.16**	**4.3**	**1.7**	**3.3**	**0.1**	**0.52**	**0.04**	**4.3**	**0.019**	**4.6**
Dollar TMW-1 (6-8)	5020423-10	2/23/2015	<0.00058	<0.00058	<0.00037	<0.0019	<0.00044	<0.00032	<0.00029	<0.00031	<0.00045	<0.00069	<0.00069	<0.00065	<0.00043	<0.00024	<0.00024	<0.00039	<0.00045	<0.00037	<0.0063	<0.00065	<0.00053	<0.00044	<0.00049	<0.0014
Dollar TMW-2 (6-8)	5020471-03	2/25/2015	<0.00051	<0.00051	<0.00032	<0.0016	<0.00039	<0.00029	<0.00026	<0.00027	<0.00040	<0.00061	<0.00061	<0.00057	<0.00038	<0.00021	<0.00021	<0.00034	<0.00040	<0.00032	0.0084 J	<0.00057	<0.00047	<0.00038	<0.00043	<0.0013
Dollar TMW-3 (6-8)	5020471-01	2/25/2015	<0.00061	<0.00061	<0.00039	<0.0020	<0.00047	<0.00034	<0.00031	<0.00033	<0.00048	<0.00073	<0.00073	<0.00068	<0.00045	<0.00026	<0.00025	<0.00041	<0.00048	<0.00039	<0.0067	<0.00069	<0.00056	<0.00046	<0.00052	<0.0015
Dollar TMW-6 (8-10)	5020471-05	2/26/2015	<0.00046	<0.00045	<0.00029	<0.0015	<0.00035	<0.00026	<0.00023	<0.00025	<0.00036	<0.00054	<0.00054	<0.00051	<0.00034	<0.00019	<0.00019	<0.00031	<0.00036	<0.00029	<0.0050	<0.00051	<0.00042	<0.00034	<0.00039	<0.0011

Table 3-2
Summary of February 2015 Detected VOC Soil Results
National Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene (Cumene)	2-Hexanone	MEK (2-Butanone)	MIBK	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	TCE	Xylenes, total
Residential Soil Cleanup Levels:			**782**	**782**	**100**	**14,000**	**18**	**100**	**1,560**	**156**	**1,564**	**70**	**9,385**	**1,200**	**85**	**350**	**313**	**626**	**626**	**626**	**NE**	**1,960**	**213**	**1,200**	**4.6**	**3,129**
MSCC Soil-to-Water:			**8.5**	**8.3**	**0.12**	**24**	**0.0056**	**0.35**	**4.9**	**0.37**	**1.7**	**0.1**	**16**	**0.4**	**0.02**	**0.091**	**0.16**	**4.3**	**1.7**	**3.3**	**0.1**	**0.52**	**0.04**	**4.3**	**0.019**	**4.6**
National B1 (0-2)	5030006-09	2/27/2015	<0.00043	<0.00043	<0.00027	<0.0014	<0.00033	<0.00024	<0.00022	<0.00023	<0.00034	<0.00051	<0.00051	<0.00048	<0.00032	<0.00018	<0.00018	<0.00029	<0.00034	<0.00028	<0.0047	<0.00049	<0.00040	<0.00033	<0.00037	<0.0011
National B2 (10-12)	5030006-11	2/27/2015	0.16	0.046	0.0068	0.11	**0.18 J**	<0.00025	0.13	0.016	0.0081	0.015 J	0.10 J	<0.00051	<0.00034	**0.22 J**	0.058	0.0055 J	0.026	<0.00029	**3.1 J**	0.0031 J	**0.37**	0.23 J	<0.00039	0.54
National TMW-1 (4-6)	5030006-03	2/27/2015	0.21	0.071	0.0042 J	0.082	**0.19**	<0.00028	0.13	0.0043 J	0.011	<0.00059	<0.00059	<0.00055	<0.00037	0.011 J	0.010 J	0.0089	0.039	0.0038 J	0.075 J	<0.00056	0.0068 J	0.35	<0.00042	0.51
National TMW-1 (8-10)	5030006-04	2/27/2015	5.4	1.6	0.03	0.29	**1.5**	<0.00039	1.6	0.03	0.11	**0.24**	0.23 J	0.061 J	<0.00051	0.081	**0.93**	0.11	0.31	0.044	**4.3 J**	<0.00078	**0.51**	**5.3**	<0.00059	**8.4**
National TMW-2 (8-10)	5030006-05	2/27/2015	<0.00038	<0.00038	<0.00024	<0.0012	<0.00029	<0.00021	<0.00019	<0.00021	<0.00030	<0.00045	<0.00045	<0.00043	<0.00028	0.0059 J	<0.00016	<0.00026	<0.00030	<0.00024	0.032 J	<0.00043	0.012 J	<0.00029	<0.00033	<0.00094
National TMW-3 (10-12)	5030006-06	2/27/2015	<0.00047	<0.00047	<0.00030	<0.0015	<0.00036	<0.00026	<0.00024	<0.00025	<0.00037	<0.00056	<0.00056	<0.00053	<0.00035	0.0057 J	<0.00020	<0.00032	<0.00037	<0.00030	<0.0051	<0.00053	0.0056 J	<0.00036	<0.00040	<0.0012
Dup2[2]	5030006-10	2/27/2015	<0.00048	<0.00047	<0.00030	<0.0015	<0.00036	<0.00027	<0.00024	<0.00025	<0.00037	<0.00056	<0.00056	<0.00053	<0.00035	0.0063 J	<0.00020	<0.00032	<0.00037	<0.00030	<0.0052	<0.00053	0.010 J	<0.00036	<0.00040	<0.0012
National TMW-4 (4-6)	5030006-07	2/27/2015	<0.00043	<0.00043	<0.00027	<0.0014	<0.00033	<0.00024	<0.00022	<0.00023	<0.00034	<0.00051	<0.00051	<0.00048	<0.00032	<0.00018	<0.00018	<0.00029	<0.00034	<0.00027	<0.0047	<0.00048	<0.00040	<0.00033	<0.00037	<0.0011
National TMW-4 (10-12)	5030006-08	2/27/2015	<0.00046	<0.00046	<0.00029	<0.0015	<0.00035	<0.00026	<0.00023	<0.00025	<0.00036	<0.00055	<0.00055	<0.00052	<0.00034	0.0044 J	<0.00019	<0.00031	<0.00036	<0.00029	<0.0051	<0.00052	<0.00043	<0.00035	<0.00039	<0.0011

Table 3-2
Summary of February 2015 Detected VOC Soil Results
Enterprise Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene (Cumene)	2-Hexanone	MEK (2-Butanone)	MIBK	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	TCE	Xylenes, total
Residential Soil Cleanup Levels:			**782**	**782**	**100**	**14,000**	**18**	**100**	**1,560**	**156**	**1,564**	**70**	**9,385**	**1,200**	**85**	**350**	**313**	**626**	**626**	**626**	**NE**	**1,960**	**213**	**1,200**	**4.6**	**3,129**
MSCC Soil-to-Water:			**8.5**	**8.3**	**0.12**	**24**	**0.0056**	**0.35**	**4.9**	**0.37**	**1.7**	**0.1**	**16**	**0.4**	**0.02**	**0.091**	**0.16**	**4.3**	**1.7**	**3.3**	**0.1**	**0.52**	**0.04**	**4.3**	**0.019**	**4.6**
Enterprise B1 (5-6)	5030006-02	2/26/2015	<0.00046	<0.00046	<0.00029	<0.0015	<0.00035	<0.00026	<0.00023	<0.00025	<0.00036	<0.00055	<0.00055	<0.00052	<0.00034	<0.00019	<0.00019	<0.00031	<0.00036	<0.00029	<0.0050	<0.00052	<0.00043	<0.00035	<0.00039	<0.0011
Enterprise TMW-1 (2-4)	5030006-01	2/26/2015	<0.00044	<0.00044	<0.00028	0.059	<0.00034	<0.00025	<0.00022	<0.00024	<0.00034	<0.00052	<0.00052	<0.00049	<0.00032	<0.00018	<0.00018	<0.00029	<0.00034	<0.00028	<0.0048	<0.00049	<0.00041	<0.00033	<0.00037	<0.0011

Table 3-2
Summary of February 2015 Detected VOC Soil Results
Payless Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene (Cumene)	2-Hexanone	MEK (2-Butanone)	MIBK	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	TCE	Xylenes, total
Residential Soil Cleanup Levels:			**782**	**782**	**100**	**14,000**	**18**	**100**	**1,560**	**156**	**1,564**	**70**	**9,385**	**1,200**	**85**	**350**	**313**	**626**	**626**	**626**	**NE**	**1,960**	**213**	**1,200**	**4.6**	**3,129**
MSCC Soil-to-Water:			**8.5**	**8.3**	**0.12**	**24**	**0.0056**	**0.35**	**4.9**	**0.37**	**1.7**	**0.1**	**16**	**0.4**	**0.02**	**0.091**	**0.16**	**4.3**	**1.7**	**3.3**	**0.1**	**0.52**	**0.04**	**4.3**	**0.019**	**4.6**
Payless B1 (4-6)	5020409-06	2/20/2015	**23**	8	**0.97**	<0.23	<0.068	<0.064	4.4	<0.064	**2**	<0.069	<0.050	<0.053	<0.066	<0.064	**9.3**	**5.4**	**8.6**	1.6	<2.5	<0.26	<0.21	<0.065	<0.066	**9**
Payless B1 (10-12)	5020409-07	2/20/2015	**11**	3	**0.35**	<0.17	<0.050	<0.047	3.4	<0.047	0.53	<0.051	<0.037	<0.040	<0.049	<0.047	**2.7**	0.93	**2**	0.25	<1.9	<0.19	<0.16	0.89	<0.049	**14**
Payless B2 (6-8)	5020423-09	2/23/2015	<0.00037	<0.00036	<0.00023	<0.0012	<0.00028	<0.00020	<0.00018	<0.00019	<0.00028	<0.00043	<0.00043	<0.00041	<0.00027	<0.00015	<0.00015	<0.00024	<0.00028	<0.00023	<0.0040	<0.00041	<0.00034	<0.00027	<0.00031	<0.00090
Payless TMW-1 (13-15)	5020409-01	2/20/2015	<0.00042	<0.00042	<0.00027	<0.0014	<0.00032	<0.00024	<0.00021	<0.00023	<0.00033	<0.00050	<0.00050	<0.00047	<0.00031	<0.00018	<0.00018	<0.00028	<0.00033	<0.00027	<0.0046	<0.00047	<0.00039	<0.00032	<0.00036	<0.0010
Payless TMW-2 (12-14)	5020409-02	2/20/2015	<0.00041	<0.00040	<0.00026	<0.0013	<0.00031	<0.00023	<0.00020	<0.00022	<0.00031	<0.00048	<0.00048	<0.00045	<0.00030	0.0032 J	<0.00017	<0.00027	<0.00032	<0.00026	<0.0044	<0.00045	<0.00037	<0.00030	<0.00034	<0.00099
Payless TMW-3 (4-6)	5020409-03	2/20/2015	<0.00039	<0.00038	<0.00025	<0.0012	<0.00030	<0.00022	<0.00020	<0.00021	<0.00030	<0.00046	<0.00046	<0.00043	<0.00029	<0.00016	<0.00016	<0.00026	<0.00030	<0.00025	<0.0042	<0.00043	<0.00036	<0.00029	<0.00033	<0.00095
Payless TMW-3 (10-12)	5020409-04	2/20/2015	<0.00038	<0.00038	<0.00024	<0.0012	<0.00029	<0.00021	<0.00019	<0.00020	<0.00029	<0.00045	<0.00045	<0.00042	<0.00028	<0.00016	<0.00016	<0.00025	<0.00030	<0.00024	<0.0041	<0.00042	<0.00035	<0.00029	<0.00032	<0.00093
Payless TMW-4 (8-10)	5020409-05	2/20/2015	<0.00039	<0.00039	<0.00025	<0.0013	<0.00030	<0.00022	<0.00020	<0.00021	<0.00030	<0.00046	<0.00046	<0.00044	<0.00029	<0.00016	<0.00016	<0.00026	<0.00031	<0.00025	<0.0043	<0.00044	<0.00036	<0.00030	<0.00033	<0.00096

Table 3-2
Summary of February 2015 Detected VOC Soil Results
Charlotte Rental Car Facilities
Charlotte Douglas International Airport

Notes:

[1]Field duplicate of sample Advantage TMW-3 (8-10)

[2]Field duplicate of sample National TMW-3

< # - Not detected at the specified detection limit
DCE - Dichloroethylene
E - Estimated concentration above the calibration range
J - Estimated value
MEK - Methyl Ethyl Ketone
mg/kg - Milligrams per kilogram
MIBK - Methyl Isobutyl Ketone
MTBE - Methyl-tert-Butyl Ether
TAA - tert-Amyl Alcohol
TAME - tert-Amyl Methyl Ether
TBA - tert-Butyl Alcohol
TCE - Trichloroethylene
TMB - Trimethylbenzene
VOC - Volatile Organic Compounds
NE - Not established

This table presents the results for all detected volatile organic analytes in soil during the February 2015 sampling event. All results are reported on a dry weight basis and are reported in milligrams per kilogram (mg/kg).

NC DENR (North Carolina Department of Environmental and Natural Resources) Maximum Soil Contaminant Concentration Levels (MSCCs), as of December 2013. A shaded cell with a bold border indicates that the sample concentration is greater than the MSCC.

Table 3-3
Summary of February 2015 Detected SVOC Soil Results
Charlotte Rental Car Facilities
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	Benzo(a) anthracene	Benzo(b) fluoranthene	Chrysene	Fluoranthene	Phenanthrene	Pyrene
Residential Soil Cleanup Levels:			**0.88**	**0.88**	**88**	**620**	**469**	**469**
MSCC Soil-to-Water:			**0.35**	**1.2**	**39**	**290**	**56**	**270**
Avis TMW-1 (10-12)	5020437-01	2/24/2015	0.10 J	0.12 J	0.15 J	0.45	0.69	0.34 J
Avis TMW-3 (4-5)	5020449-03	2/25/2015	<0.049	<0.044	<0.047	<0.048	<0.049	<0.050
Budget TMW-1 (12-14)	5020410-05	2/19/2015	<0.057	<0.051	<0.055	<0.056	<0.057	<0.058
Budget TMW-2 (6-8)	5020410-06	2/19/2015	<0.055	<0.049	<0.053	<0.053	<0.054	<0.055
Budget TMW-2 (10-12)	5020410-11	2/19/2015	<0.057	<0.050	<0.055	<0.055	<0.056	<0.058
Dollar TMW-6 (8-10)	5020471-05	2/26/2015	<0.061	<0.054	<0.058	<0.059	<0.060	<0.061
Enterprise TMW-1 (2-4)	5030006-01	2/26/2015	<0.050	<0.044	<0.048	<0.049	<0.050	<0.051
Hertz B4 (6-8)	5020410-04	2/19/2015	<0.056	<0.049	<0.054	<0.054	<0.055	<0.056
Hertz TMW-1 (2-4)	5020409-09	2/20/2015	<0.051	<0.045	<0.049	<0.050	<0.051	<0.052
Hertz TMW-1 (8-10)	5020409-08	2/20/2015	<0.061	<0.054	<0.059	<0.060	<0.061	<0.062
National B1 (0-2)	5030006-09	2/27/2015	<0.054	<0.048	<0.052	<0.053	<0.054	<0.055
National TMW-4 (4-6)	5030006-07	2/27/2015	<0.054	<0.047	<0.052	<0.052	<0.053	<0.054
National TMW-4 (10-12)	5030006-08	2/27/2015	<0.058	<0.051	<0.056	<0.056	<0.057	<0.058
Payless B2 (6-8)	5020423-09	2/23/2015	<0.054	<0.048	<0.052	<0.052	<0.053	<0.054

Notes:
< # - Not detected at the specified detection limit
mg/kg - Milligrams per kilogram
J - Estimated value
SVOC - Semivolatile Organic Compounds

This table presents the results for all detected semivolatile organic analytes in soil during the February 2015 sampling event. All results are reported on a dry weight basis and are reported in milligrams per kilogram (mg/kg).

NC DENR (North Carolina Department of Environmental and Natural Resources) Maximum Soil Contaminant Concentration Levels (MSCCs), as of December 2013. A shaded cell with a bold border indicates that the sample concentration is greater than the MSCC.

Table 3-4
Summary of February 2015 Petroleum Hydrocarbon and Metals Soil Results
Charlotte Rental Car Facilities
Charlotte Douglas International Airport

Field Sample ID	Lab Sample ID	Sample Date	C9-C18 Aliphatics (1)	C9-C22 Aromatics (2)	C19-C36 Aliphatics	C5-C8 Aliphatics	Chromium	Lead
Residential Soil Cleanup Levels:			**1,500**	**469**	**31,000**	**939**	**47**	**400**
MSCC Soil-to-Water:			**540**	**31**	**#**	**68**	**5.4**	**270**
Avis TMW-1 (6-8)	5020437-01	2/24/2015	<1.1	2.2 J	9.8 J	<0.19	**5.9**	4.3
Avis TMW-3 (4-5)	5020449-03	2/25/2015	<1.15	<2.047	<2.6	<0.21	4.1	3.9
Budget TMW-1 (12-14)	5020410-05	2/19/2015	<1.25	<2.447	<3.1	<0.21	**32**	8.9
Budget TMW-2 (6-8)	5020410-06	2/19/2015	1.7 J	1.0 J	<2.9	<0.19	**42**	8.9
Budget TMW-2 (10-12)	5020410-11	2/19/2015	1.9 J	5.43 J	<3.0	<0.20	**24**	8
Dollar TMW-6 (8-10)	5020471-05	2/26/2015	<1.34	<2.551	<3.3	<0.23	3.1	8.4
Enterprise TMW-1 (2-4)	5030006-01	2/26/2015	<1.13	<2.144	<2.7	<0.20	**35**	6.4
Hertz B4 (6-8)	5020410-04	2/19/2015	<1.18	<2.343	<3.0	<0.19	4.3	6.9
Hertz TMW-1 (2-4)	5020409-09	2/20/2015	1.5 J	0.34 J	4.3 J	<0.18	**11**	6.2
Hertz TMW-1 (8-10)	5020409-08	2/20/2015	<1.39	<2.556	<3.3	<0.25	**28**	8.3
National B1 (0-2)	5030006-09	2/27/2015	<1.21	<2.347	<2.9	<0.21	**34**	8.8
National TMW-4 (4-6)	5030006-07	2/27/2015	<1.17	<2.244	10 J	<0.19	**36**	11
National TMW-4 (10-12)	5030006-08	2/27/2015	<1.37	<2.458	<3.1	<0.26	**19**	10
Payless B2 (6-8)	5020423-09	2/23/2015	<1.12	<2.239	8.4 J	<0.17	**21**	6.7

Notes:
< # - Not detected at the specified detection limi
Health based level > 100%
(1) The result reported for C9-C18 Aliphatics is based on the sum of the C9-C12 and C9-C18 Aliphatics results
(2) The result reported for C9-C22 Aromatics is based on the sum of the C9-C10 and C11-C22 Aromatic result
mg/kg - Milligrams per kilogram
J - Estimated value

This table presents the results for all aliphatic and aromatic, and metals soil sample results associated with the February 2015 samplin event. All results are reported on a dry weight basis and are reported in milligrams per kilogram (mg/kg).

NC DENR (North Carolina Department of Environmental and Natural Resources) Maximum Soil Contaminant Concentration Levels (MSCCs), as of December 2013. A shaded cell with a bold border indicates that the sample concentration is greater than the MSCC.

Table 3-5
Summary of February 2015 Detected VOC Groundwater Results
Hertz Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	Chloroform	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene	MBK (2-Hexanone)	MEK (2-Butanone)	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	trans-1,2-DCE	TCE	Xylenes, total
		NC2L:	400	400	25 (I)	6000	1	70	70	600	70	70	40	4000	5	20	6	70	70	70	NE	128	10 (I)	600	100	3	500
Hertz MW-5R	5020436-01	2/24/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	<0.042	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	<0.15
Hertz MW-11	5020436-02	2/24/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	6.5	<0.054	<0.065	<0.24	<0.083	**30**	<0.19	<0.076	<0.087	<0.076	<0.72	4.1 J	<0.64	<0.044	<0.070	<0.078	<0.15
Hertz TMW-1	5020424-07	2/24/2015	1.7	<0.076	0.8	<0.31	**78**	<0.076	<0.056	<0.061	<0.050	4.6	<0.065	<0.24	<0.083	0.53 J	**30**	1.1	2.3	0.53	120 A	<0.10	6.2 A, J	0.71	<0.070	0.55	52

Table 3-5
Summary of February 2015 Detected VOC Groundwater Results
Advantage Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	Chloroform	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene	MBK (2-Hexanone)	MEK (2-Butanone)	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	trans-1,2-DCE	TCE	Xylenes, total
		NC2L:	**400**	**400**	**25 (I)**	**6000**	**1**	**70**	**70**	**600**	**70**	**70**	**40**	**4000**	**5**	**20**	**6**	**70**	**70**	**70**	**NE**	**128**	**10 (I)**	**600**	**100**	**3**	**500**
Advantage TMW-1	5020450-01	2/25/2015	<0.054	<0.076	<0.089	10	<0.048	<0.076	<0.056	<0.061	1.8	<0.054	<0.065	5.5	<0.083	14	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	<0.15
Dup-3[1]	5020450-09	2/25/2015	<0.054	<0.076	<0.089	7.3 J	<0.048	<0.076	<0.056	<0.061	2.3	<0.054	<0.065	<0.24	<0.083	15	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	<0.15
Advantage TMW-2	5020450-02	2/25/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	19	<0.054	<0.065	<0.24	<0.083	3.4	<0.19	<0.076	<0.087	<0.076	<0.72	1.6 J	**46**	<0.044	<0.070	<0.078	<0.15
Advantage TMW-3	5030013-02	2/27/2015	<0.054	<0.076	0.52	54	<0.048	<0.076	<0.056	1	0.88	<0.054	<0.065	9	<0.083	5.2	<0.19	<0.076	0.96	<0.076	<0.72	<0.10	<0.64	0.96	<0.070	<0.078	0.84 J
Advantage TMW-4	5020450-03	2/25/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	2.3	<0.054	<0.065	<0.24	<0.083	16	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	<0.15

Table 3-5
Summary of February 2015 Detected VOC Groundwater Results
Avis Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	Chloroform	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene	MBK (2-Hexanone)	MEK (2-Butanone)	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	trans-1,2-DCE	TCE	Xylenes, total
		NC2L:	**400**	**400**	**25 (I)**	**6000**	**1**	**70**	**70**	**600**	**70**	**70**	**40**	**4000**	**5**	**20**	**6**	**70**	**70**	**70**	**NE**	**128**	**10 (I)**	**600**	**100**	**3**	**500**
Avis TMW-1	5020450-10	2/25/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	<0.042	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	0.50 J
Avis TMW-6	5030026-03	3/2/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	12	<0.054	<0.065	<0.24	<0.083	**37**	<0.19	<0.076	<0.087	<0.076	68	22	9.0 J	<0.044	<0.070	<0.078	<0.15

Table 3-5
Summary of February 2015 Detected VOC Groundwater Results
Budget Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	Chloroform	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene	MBK (2-Hexanone)	MEK (2-Butanone)	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	trans-1,2-DCE	TCE	Xylenes, total
		NC2L:	400	400	25 (I)	6000	1	70	70	600	70	70	40	4000	5	20	6	70	70	70	NE	128	10 (I)	600	100	3	500
Budget TMW-1	5020408-01	2/20/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	<0.042	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	<0.15
Budget TMW-2	5020408-02	2/20/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	12	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	<0.042	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	1	<0.078	<0.15
Duplicate-1[2]	5020408-04	2/20/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	12	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	<0.042	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	1	<0.078	<0.15
Budget TMW-3	5020450-05	2/25/2015	0.52	<0.076	<0.089	<0.31	**4.5**	<0.076	<0.056	0.51	6	1.5	<0.065	<0.24	<0.083	**83**	**11**	<0.076	<0.087	<0.076	19	10	6.5 J	1.1	<0.070	<0.078	1.6
Budget TMW-4	5020450-06	2/25/2015	<0.054	<0.076	<0.089	11	<0.048	<0.076	<0.056	<0.061	1.4	<0.054	<0.065	<0.24	<0.083	**31**	0.68 J	<0.076	<0.087	<0.076	<0.72	3.6 J	<0.64	0.67	<0.070	<0.078	0.71 J
Budget TMW-5	5020408-03	2/20/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	62	<0.054	<0.065	4.5 J	<0.083	**610**	<0.19	<0.076	<0.087	<0.076	620 A	4.0 J	**680 A**	<0.044	<0.070	<0.078	<0.15
Budget TMW-6	5020450-08	2/25/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	**140**	<0.054	<0.065	<0.24	<0.083	**740**	<0.19	<0.076	<0.087	<0.076	1300	4.2 J	**1600**	0.87	<0.070	<0.078	<0.15

Table 3-5
Summary of February 2015 Detected VOC Groundwater Results
Dollar Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	Chloroform	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene	MBK (2-Hexanone)	MEK (2-Butanone)	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	trans-1,2-DCE	TCE	Xylenes, total
		NC2L:	**400**	**400**	**25 (I)**	**6000**	**1**	**70**	**70**	**600**	**70**	**70**	**40**	**4000**	**5**	**20**	**6**	**70**	**70**	**70**	**NE**	**128**	**10 (I)**	**600**	**100**	**3**	**500**
Dollar TMW-1	5030013-03	2/27/2015	<0.054	<0.076	<0.089	<0.31	<0.048	0.76	<0.056	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	1.2	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	0.62 J
Dollar TMW-2	5030013-04	2/27/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	<0.042	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	0.52	<0.070	<0.078	0.87 J
Dup-4[3]	5030013-07	2/27/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	<0.042	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	0.74 J
Dollar TMW-3	5030026-01	3/2/2015	<0.054	<0.076	<0.089	<0.31	**6.7**	0.76	<0.056	<0.061	8.4	<0.054	<0.065	<0.24	<0.083	2.6	<0.19	<0.076	<0.087	<0.076	53	<0.10	**39**	<0.044	<0.070	<0.078	0.68 J
Dollar TMW-5	5030013-06	2/27/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.9	NS	NS	2.4 J
Dollar TMW-6	5030026-02	3/2/2015	<0.054	<0.076	<0.089	<0.31	<0.048	0.63	<0.056	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	<0.042	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	<0.15

Table 3-5
Summary of February 2015 Detected VOC Groundwater Results
National Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	Chloroform	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene	MBK (2-Hexanone)	MEK (2-Butanone)	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	trans-1,2-DCE	TCE	Xylenes, total
		NC2L:	**400**	**400**	**25 (I)**	**6000**	**1**	**70**	**70**	**600**	**70**	**70**	**40**	**4000**	**5**	**20**	**6**	**70**	**70**	**70**	**NE**	**128**	**10 (I)**	**600**	**100**	**3**	**500**
National MW-1	5030070-01	3/4/2015	1.1	1.3	<0.089	<0.31	**15**	<0.076	<0.056	0.7	2.9	1	<0.065	<0.24	<0.083	**29**	1.2	<0.076	<0.087	0.51	35	1.5 J	7.1 J	6.3	<0.070	<0.078	8.4
National TMW-1	5030051-01	3/3/2015	**2,400**	**660**	<4.4	130 J	**3,500**	<3.8	<2.8	**2,800**	33	**130**	**340**	510	<4.1	**40 J**	**820**	<3.8	**360**	<3.8	1,900	<5.2	<32	**15,000**	<3.5	<3.9	**12,000**
National TMW-2	5030026-04	3/2/2015	<0.054	0.53	5.2	<0.31	0.7	<0.076	<0.056	<0.061	0.82	0.51	<0.065	<0.24	<0.083	18	0.93 J	<0.076	<0.087	<0.076	12	<0.10	5.4 J	0.63	<0.070	<0.078	<0.15
National TMW-3	5030026-05	3/2/2015	0.86	2.2	<0.089	<0.31	**7.9**	<0.076	<0.056	<0.061	12	0.65	<0.065	<0.24	<0.083	**71**	**7.7**	1.2	<0.087	1.1	<0.72	1.1 J	8.0 J	<0.044	<0.070	<0.078	<0.15
National TMW-4	5030051-02	3/3/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	1.1	<0.054	<0.065	<0.24	0.58 J	10	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	<0.15

Table 3-5
Summary of February 2015 Detected VOC Groundwater Results
Payless Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	1,2,4-TMB	1,3,5-TMB	4-Isopropyl toluene	Acetone	Benzene	Chloroform	cis-1,2-DCE	Ethyl benzene	Isopropyl Ether	Isopropyl benzene	MBK (2-Hexanone)	MEK (2-Butanone)	Methylene Chloride	MTBE	Naphthalene	n-Butyl benzene	n-Propyl benzene	sec-Butyl benzene	TAA	TAME	TBA	Toluene	trans-1,2-DCE	TCE	Xylenes, total
		NC2L:	**400**	**400**	**25 (I)**	**6000**	**1**	**70**	**70**	**600**	**70**	**70**	**40**	**4000**	**5**	**20**	**6**	**70**	**70**	**70**	**NE**	**128**	**10 (I)**	**600**	**100**	**3**	**500**
Payless TMW-1	5020424-01	2/23/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	<0.042	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	<0.15
Payless TMW-2	5020424-02	2/23/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	2.1	<0.054	<0.065	<0.24	<0.083	3.6	<0.19	<0.076	<0.087	<0.076	310 A	<0.10	**95 A**	<0.044	<0.070	<0.078	<0.15
Payless TMW-3	5020424-03	2/23/2015	0.73	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	1.8	<0.19	<0.076	<0.087	<0.076	57 A	<0.10	**21 A**	<0.044	<0.070	<0.078	<0.15
Payless TMW-4	5020424-05	2/23/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	2.3	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	<0.15
Dup-2[4]	5020424-06	2/23/2015	<0.054	<0.076	<0.089	<0.31	<0.048	<0.076	<0.056	<0.061	<0.050	<0.054	<0.065	<0.24	<0.083	0.89 J	<0.19	<0.076	<0.087	<0.076	<0.72	<0.10	<0.64	<0.044	<0.070	<0.078	<0.15

Table 3-5
Summary of February 2015 Detected VOC Groundwater Results
Charlotte Rental Car Facilities
Charlotte Douglas International Airport

Notes:

[1]Field duplicate of sample Advantage TMW-1
[2]Field duplicate of Budget TMW-2
[3]Field duplicate of Dollar TMW-2
[4]Field duplicate of Payless TMW-4

< # - Not detected at the specified detection limit
µg/l - Micrograms per liter
A - Low CCV recovery.
CCV -Continuing Calibration Verification
DCE - Dichloroethylene
I - Interim Maximum Allowable Concentrations (IMAC) established under 15A NCAC 2L .0202
J - Estimated value
MBK - Methyl Butyl Ketone
MEK - Methyl Ethyl Ketone
MTBE - Methyl-tert-Butyl Ether
NC 2L - NC Groundwater quality standard
NE - Not established
NS - Not sampled for the associated parameter
TAA - tert-Amyl Alcohol
TAME - tert-Amyl Methyl Ether
TBA - tert-Butyl Alcohol
TCE - Trichloroethylene
TMB - Trimethylbenzene
VOC - Volatile Organic Compounds

This table presents the results for all detected volatile organic analytes in groundwater during the February 2015 sampling event. All results are reported in micrograms per liter (µg/l).

NC Groundwater quality standards are specified in 15A NCAC 2L .0200, effective April 1, 2013. Sample concentrations greater than the standard are highlighted with a bold border.

Table 3-6
Summary of Detected SVOC Groundwater Results
Charlotte Rental Car Facilities
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	Bis(2-Ethylhexyl) phthalate	Diethyl phthalate	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene
NC2L:			**3**	**6,000**	**1**	**30**	**6**
Advantage TMW-5	5020450-04	2/25/2015	<1.6	<0.98	<1.6	<1.7	<1.6
Avis TMW-1	5020450-10	2/25/2015	<1.6	3.1 J	<1.6	<1.7	<1.6
Budget TMW-1	5020408-01	2/20/2015	<1.6	<0.98	<1.6	<1.7	<1.6
Budget TMW-2	5020408-02	2/20/2015	<1.6	<0.98	<1.6	<1.7	<1.6
Dollar TMW-4	5030013-05	2/27/2015	<1.6	65	<1.6	<1.7	<1.6
Dollar TMW-5	5030013-06	2/27/2015	<1.6	<0.98	<1.6	<1.7	<1.6
Dollar TMW-6	5030026-02	3/2/2015	<1.7	<1.0	<1.7	<1.7	<1.7
Hertz MW-5R	5020436-01	2/24/2015	<1.7	<1.0	<1.7	<1.7	<1.7
Hertz MW-11	5020436-02	2/24/2015	<1.8	<1.1	<1.8	<1.8	<1.8
Hertz TMW-1	5020424-07	2/24/2015	<1.6	<0.98	<1.6	<1.7	**19**
Payless MW-1	5020424-04	2/23/2015	<1.6	<0.98	<1.6	<1.7	<1.6
Payless TMW-1	5020424-01	2/23/2015	<1.6	<0.98	<1.6	<1.7	<1.6
Payless TMW-2	5020424-02	2/23/2015	<1.6	<0.98	<1.6	<1.7	<1.6
Payless TMW-3	5020424-03	2/23/2015	<1.6	<0.98	<1.6	<1.7	<1.6
National MW-1	5030070-01	3/4/2015	**37**	<0.98	<1.6	<1.7	<1.6
National TMW-1	5030051-01	3/3/2015	<1.6	<0.98	**87**	**170**	**570**
National TMW-4	5030051-02	3/3/2015	<1.6	<0.98	<1.6	<1.7	<1.6

Notes:
< # - Not detected at the specified detection limit
µg/l - Micrograms per liter
J - Estimated value
NC 2L - NC Groundwater quality standard
SVOC - Semivolatile Organic Compounds

This table presents the results for all detected semivolatile organic analytes in groundwater during the February 2015 sampling event. All results are reported in micrograms per liter (µg/l).

NC Groundwater quality standards are specified in 15A NCAC 2L .0200, effective April 1, 2013. Sample concentrations greater than the standard are highlighted with a bold border.

Table 3-7
Summary of Groundwater Tentatively Identified Compounds
Charlotte Douglas International Airport - Rental Car Facilities
Rental Car Road, Charlotte, North Carolina

Field Sample ID:	Lab Sample ID:	Sample Date:	TIC	Result (µg/L)
Hertz TMW-1	5020424-07	02/24/15	2,4,6-Trimethyliodobenzene	17
			p-Xylene	23
National TMW-1	5030051-01	03/03/15	1,2,3-Trimethylbenzene	140
			1,2-Dimethylbenzene	750
			1,3,5-Trimethylbenzene	480
			1-Ethyl-2-Methylbenzene	130
			1-Ethyl-3-Methylbenzene	410
			Indane	160
			Toluene	1,400
Payless TMW-2	5020424-02	02/23/15	1-Ethyl-Cyclopentanol	38

Notes:
µg/L = micrograms per liter
TIC - Tentatively Identified Compound

Table 3-8
Summary of Detected Petroleum Hydrocarbon and Metals Groundwater Results
Hertz Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	C9-C18 Aliphatics (1)	C9-C22 Aromatics (2)	C19-C36 Aliphatics	C5-C8 Aliphatics	Chromium	Lead
		NC2L:	**700**	**200**	**10,000**	**400**	**0.01**	**0.015**
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Hertz MW-5R	5030013-01	2/27/2015	NS	NS	NS	NS	NS	<0.0050
	5020436-01	2/24/2015	16 J	10 J	<11	15 J	NS	NS
Hertz MW-11	5020436-02	2/24/2015	16 J	1.5 J	23 J	46 J	NS	NS
Hertz TMW-1	5020424-07	2/24/2015	140	91 J	<11	**410**	**0.012**	<0.0050

Table 3-8
Summary of Detected Petroleum Hydrocarbon and Metals Groundwater Results
Advantage Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	C9-C18 Aliphatics (1)	C9-C22 Aromatics (2)	C19-C36 Aliphatics	C5-C8 Aliphatics	Chromium	Lead
		NC2L:	**700**	**200**	**10,000**	**400**	**0.01**	**0.015**
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Advantage TMW-1	5020450-01	2/25/2015	<1.3	<1.4	NS	14 J	NS	<0.0050
Advantage TMW-2	5020450-02	2/25/2015	15 J	4.6 J	NS	47 J	NS	0.0075
Advantage TMW-3	5030013-02	2/27/2015	38 J	9.3 J	NS	15 J	NS	<0.0050
Advantage TMW-4	5020450-03	2/25/2015	15 J	2.6 J	NS	23 J	NS	<0.0050
Advantage TMW-5	5020450-04	2/25/2015	<25	<20	<11	NS	NS	NS

Table 3-8
Summary of Detected Petroleum Hydrocarbon and Metals Groundwater Results
Avis Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	C9-C18 Aliphatics (1)	C9-C22 Aromatics (2)	C19-C36 Aliphatics	C5-C8 Aliphatics	Chromium	Lead
		NC2L:	**700**	**200**	**10,000**	**400**	**0.01**	**0.015**
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Avis TMW-1	5020450-10	2/25/2015	<26.3	<21.4	<11	<1.2	<0.0050	<0.0050
Avis TMW-6	5030026-03	3/2/2015	9.6 J	2.6 J	NS	92	NS	0.0056

Table 3-8
Summary of Detected Petroleum Hydrocarbon and Metals Groundwater Results
Budget Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	C9-C18 Aliphatics (1)	C9-C22 Aromatics (2)	C19-C36 Aliphatics	C5-C8 Aliphatics	Chromium	Lead
		NC2L:	**700**	**200**	**10,000**	**400**	**0.01**	**0.015**
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Budget TMW-1	5020408-01	2/20/2015	<26.3	<21.4	<11	<1.2	**0.013**	<0.0050
Budget TMW-2	5020408-02	2/20/2015	<26.3	<21.4	<11	7.3 J	<0.0050	<0.0050
Budget TMW-3	5020450-05	2/25/2015	54	35 J	NS	130	NS	**0.055**
Budget TMW-4	5020450-06	2/25/2015	<1.3	<1.4	NS	32 J	NS	<0.0050
Budget TMW-5	5020408-03	2/20/2015	<1.3	<1.4	NS	**840**	NS	NS
Budget TMW-5	5020450-07	2/25/2015	NS	NS	NS	NS	NS	0.011
Budget TMW-6	5020450-08	2/25/2015	<1.3	<1.4	NS	**930**	NS	<0.0050

Table 3-8
Summary of Detected Petroleum Hydrocarbon and Metals Groundwater Results
Dollar Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	C9-C18 Aliphatics (1)	C9-C22 Aromatics (2)	C19-C36 Aliphatics	C5-C8 Aliphatics	Chromium	Lead
		NC2L:	**700**	**200**	**10,000**	**400**	**0.01**	**0.015**
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Dollar TMW-1	5030013-03	2/27/2015	<1.3	<1.4	NS	<1.2	NS	**0.023**
Dollar TMW-2	5030013-04	2/27/2015	<1.3	<1.4	NS	<1.2	NS	<0.0050
Dollar TMW-3	5030026-01	3/2/2015	14 J	3.0 J	NS	50	NS	0.0063
Dollar TMW-4	5030013-05	2/27/2015	<26.3	<21.4	<11	<1.2	NS	NS
Dollar TMW-5	5030013-06	2/27/2015	<26.3	<21.4	<11	<1.2	NS	NS
Dollar TMW-6	5030026-02	3/2/2015	<26.3	<21.4	<11	<1.2	<0.0050	<0.0050

Table 3-8
Summary of Detected Petroleum Hydrocarbon and Metals Groundwater Results
National Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	C9-C18 Aliphatics (1)	C9-C22 Aromatics (2)	C19-C36 Aliphatics	C5-C8 Aliphatics	Chromium	Lead
		NC2L:	**700**	**200**	**10,000**	**400**	**0.01**	**0.015**
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
National MW-1	5030070-01	3/4/2015	140	77	<11	41 J	NS	<0.0050
National TMW-1	5030051-01	3/3/2015	**32,180**	**9,080**	<11	**55,000**	NS	0.0093
National TMW-2	5030026-04	3/2/2015	32 J	19 J	NS	27 J	NS	**0.025**
National TMW-3	5030026-05	3/2/2015	160	140	NS	190	NS	**0.03**
National TMW-4	5030051-02	3/3/2015	<26.3	<21.4	<11	15 J	**0.024**	0.0079

Table 3-8
Summary of Detected Petroleum Hydrocarbon and Metals Groundwater Results
Payless Rental Car Facility
Charlotte Douglas International Airport

Field Sample ID:	Lab Sample ID:	Sample Date:	C9-C18 Aliphatics (1)	C9-C22 Aromatics (2)	C19-C36 Aliphatics	C5-C8 Aliphatics	Chromium	Lead
		NC2L:	**700**	**200**	**10,000**	**400**	**0.01**	**0.015**
		Units:	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Payless MW-1	5020424-04	2/23/2015	<26.3	<21.4	<11	<1.2	NS	NS
Payless TMW-1	5020424-01	2/23/2015	<26.3	<21.4	18 J	<1.2	NS	<0.0050
Payless TMW-2	5020424-02	2/23/2015	13 J	2.0 J	<11	43 J	NS	<0.0050
Payless TMW-3	5020424-03	2/23/2015	11 J	3.2 J	<11	3.5 J	NS	0.012
Payless TMW-4	5020424-05	2/23/2015	NS	NS	NS	<1.2	NS	<0.0050

Table 3-8
Summary of Detected Petroleum Hydrocarbon and Metal Groundwater Results
Charlotte Rental Car Facilities
Charlotte Douglas International Airport

Notes:

< # - Not detected at the specified detection limit

(1) The result reported for C9-C18 Aliphatics is based on the sum of the C9-C12 and C9-C18 Aliphatics results.

(2) The result reported for C9-C22 Aromatics is based on the sum of the C9-C10 and C11-C22 Aromatic results

µg/l - Micrograms per liter

mg/l - Milligrams per liter

J - Estimated value

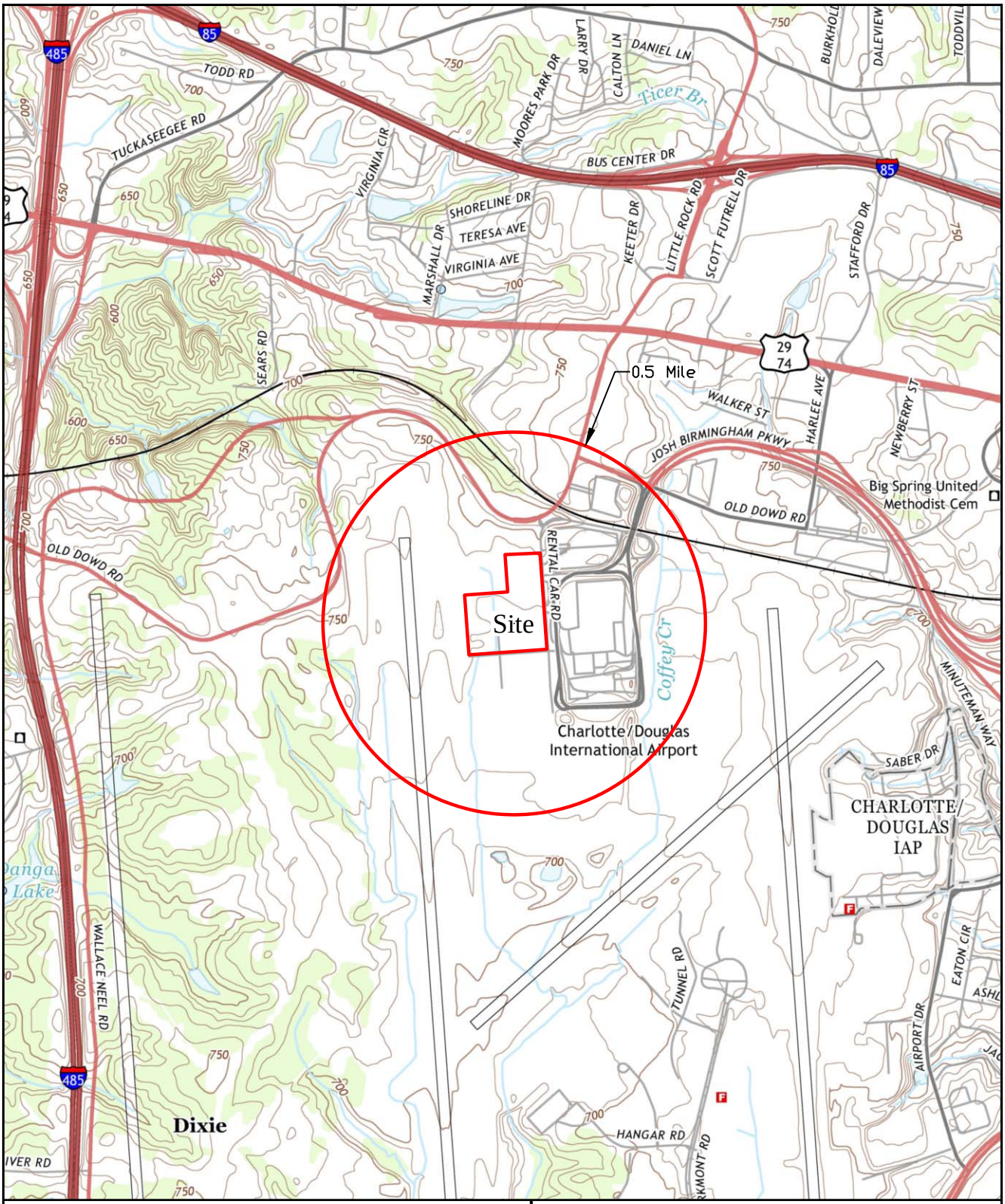
NC 2L - NC Groundwater quality standard

NS - Not sampled for the associated parameter

This table presents the results for all detected petroleum hydrocarbon and metal analytes in groundwater during the February 2015 sampling event.

NC Groundwater quality standards are specified in 15A NCAC 2L .0200, effective April 1, 2013. Sample concentrations greater than the standard are highlighted with a bold border.

Figures



SCALE IN FEET
0 2000

N.C.
QUADRANGLE LOCATION

N

SOURCE: USGS 7.5' TOPOGRAPHIC QUADRANGLES
CHARLOTTE WEST, NC – DATED 2013

FIGURE 1–1. LOCATION MAP

CHARLOTTE AIRPORT RENTAL CAR FACILITY
CHARLOTTE, NORTH CAROLINA

Prepared for: CLT Airport	AECOM CLT, NORTH CAROLINA 28210
DRAWN BY: BGS	
DATE: 4/2/15	
PROJECT NO. 60340238	Fig. 1–1

RENTAL CAR LOTS

Avis–TMW–1
Avis–TMW–2
Avis–TMW–3
Avis–TMW–4
Avis–B–1
Avis–TMW–5
Avis–B–2
Avis–TMW–6

Hertz–MW–7
Hertz–MW–11
Hertz–B–1
Hertz–MW–4R
Hertz–RW–2R
Hertz–MW–1
Hertz–B–2
Hertz–MW–2R
Hertz–B–3
Hertz–MW–9
Hertz–MW–3R
Hertz–MW–5R
Hertz–B–4
Hertz–MW–6
Hertz–TMW–1
Hertz–MW–10

National–TMW–1
National–TMW–2
National–B–1
National–B–2
National–MW–1
National–TMW–3
National–TMW–4

Advantage–TMW–1
Advantage–TMW–2
Advantage–TMW–3
Advantage–TMW–4
Advantage–TMW–5

Enterprise–B–1
Enterprise–TMW–1

Payless–TMW–4
Payless–TMW–3
Payless–TMW–1
Payless–MW–1
Payless–B–1
Payless–TMW–2
Payless–B–2

Dollar–TMW–2
Dollar–TMW–1
Dollar–TMW–3
Dollar–TMW–4
Dollar–TMW–5
Dollar–TMW–6

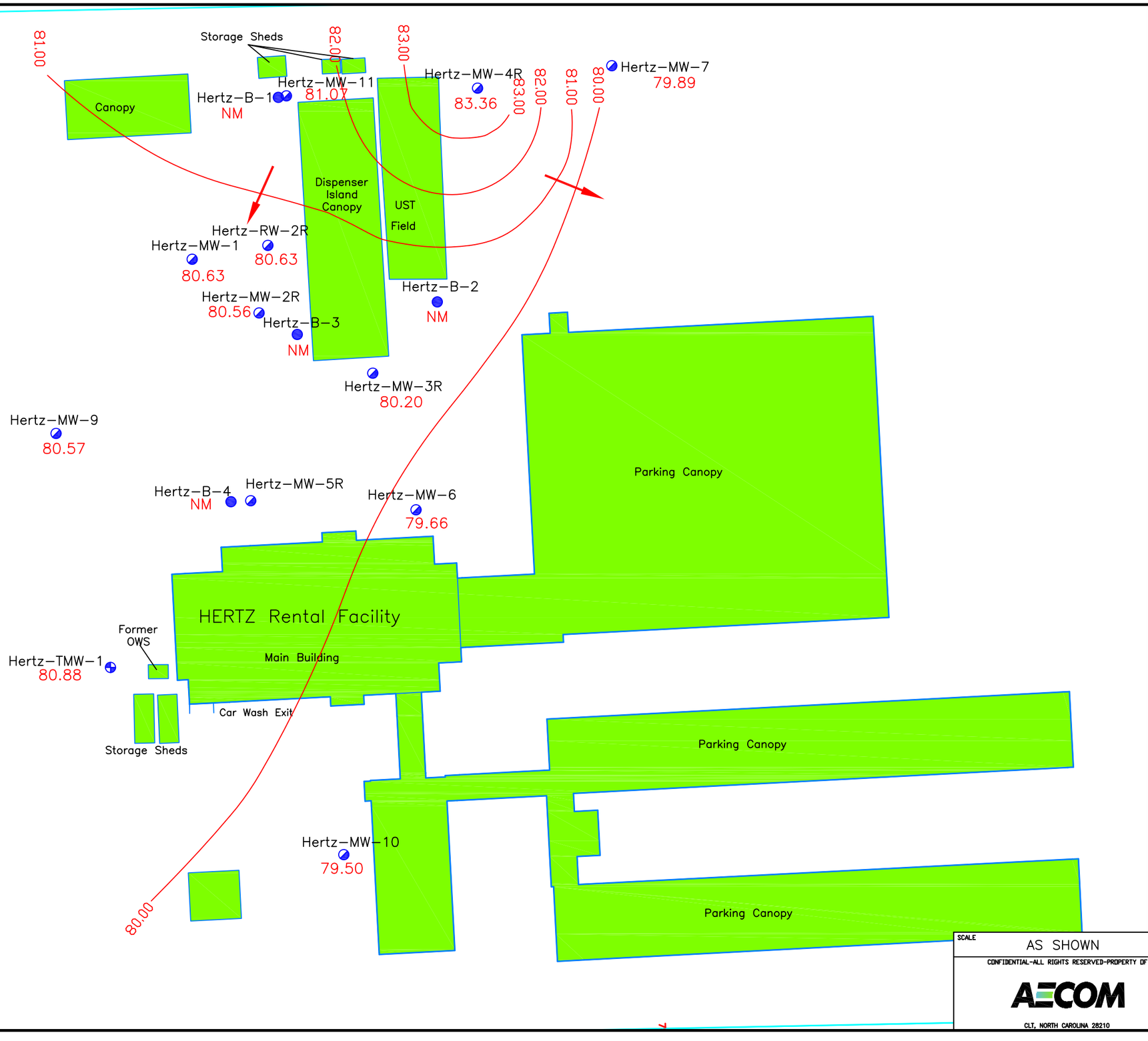
Budget–TMW–1
Budget–TMW–6
Budget–TMW–5
Budget–TMW–2
Budget–TMW–3
Budget–TMW–4

CELL PHONE LOT

0 120
APPROX. SCALE, ft.

TEMPORARY MONITORING WELL
SOIL BORING
PERMANENT MONITORING WELL
INTENDED MONITORING WELL

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Rental Car Facilities Site Map, Charlotte Douglas Airport, Charlotte, NC
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–2–1 / REV.: 4
	APPROVED BY: JPM	DATE: 14MAY15	



TEMPORARY MONITORING WELL

SOIL BORING

PERMANENT MONITORING WELL

NM NOT MEASURED

80.88 GROUNDWATER ELEVATION (ft.)

GROUNDWATER CONTOUR (Dashed where Inferred)

GROUNDWATER FLOW DIRECTION

MW–5R NOT INCLUDED IN CONTOURS

0 40

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Hertz Groundwater Contour Map March 3, 2015 Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	
	APPROVED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–2–2 / REV.: 4

National—TMW—1
77.94

National—TMW—2
78.70

78.60
78.40
78.20
78.00

Former UST

National—B—1
NM

Lift

Garage

UST Field

Dispenser Island Location

National—MW—1
78.17

National—B—2
NM

National—TMW—3
77.94

Gasoline AST

Former UST

OWS
OWS

77.80

Main Building

Diesel UST

Dispenser

National—TMW—4
77.60

77.60

NATIONAL Rental Facility

ADVANTAGE Rental Facility

TEMPORARY MONITORING WELL

SOIL BORING

PERMANENT MONITORING WELL

NM NOT MEASURED

78.16 GROUNDWATER ELEVATION (ft.)

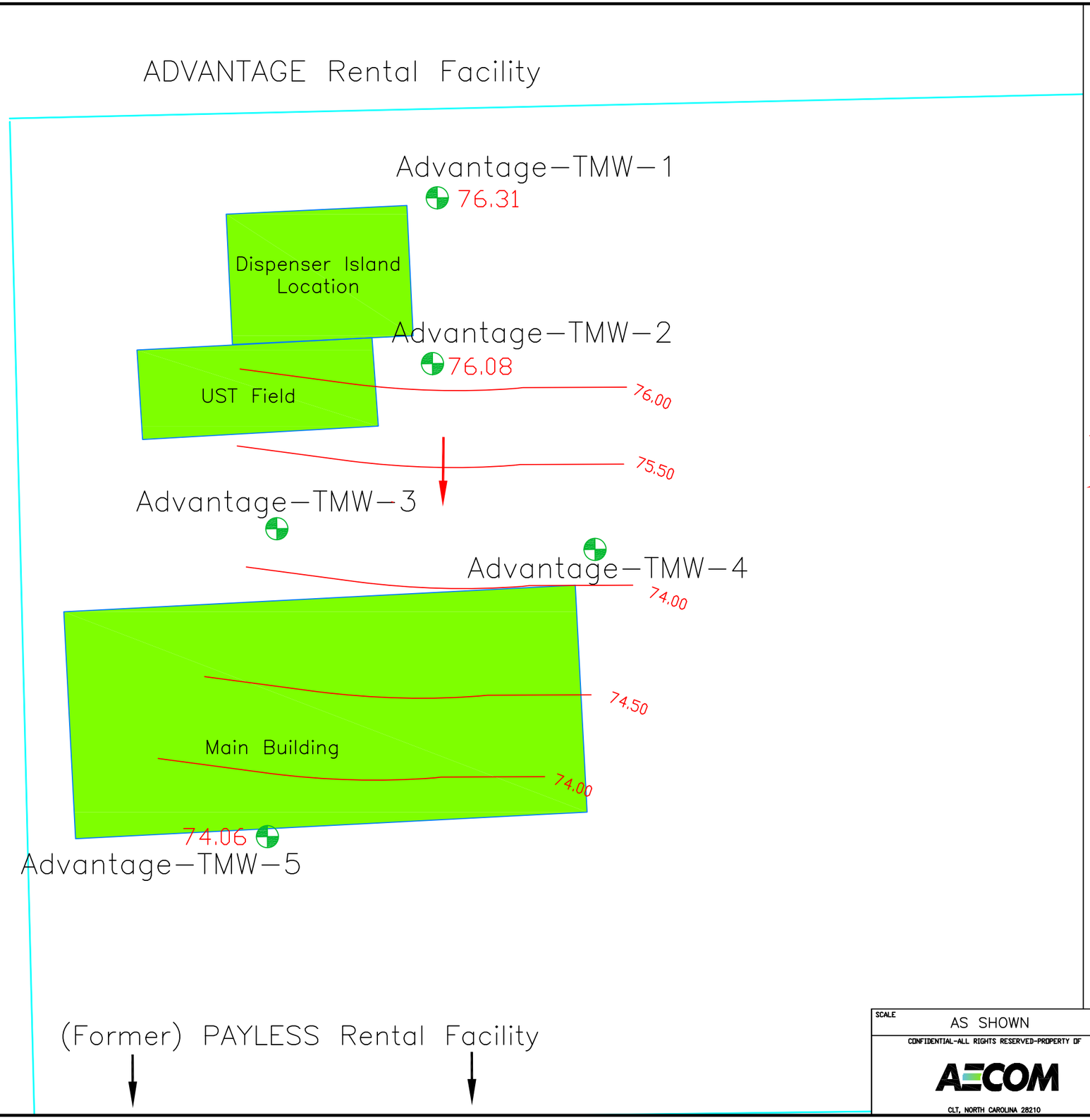
GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

0 25

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: National Groundwater Contour Map March 3, 2015 Charlotte Douglas Airport Charlotte, North Carolina
 AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	
	APPROVED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE—2—3 / REV.: 4



TEMPORARY MONITORING WELL

76.31 GROUNDWATER ELEVATION (ft.)

GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

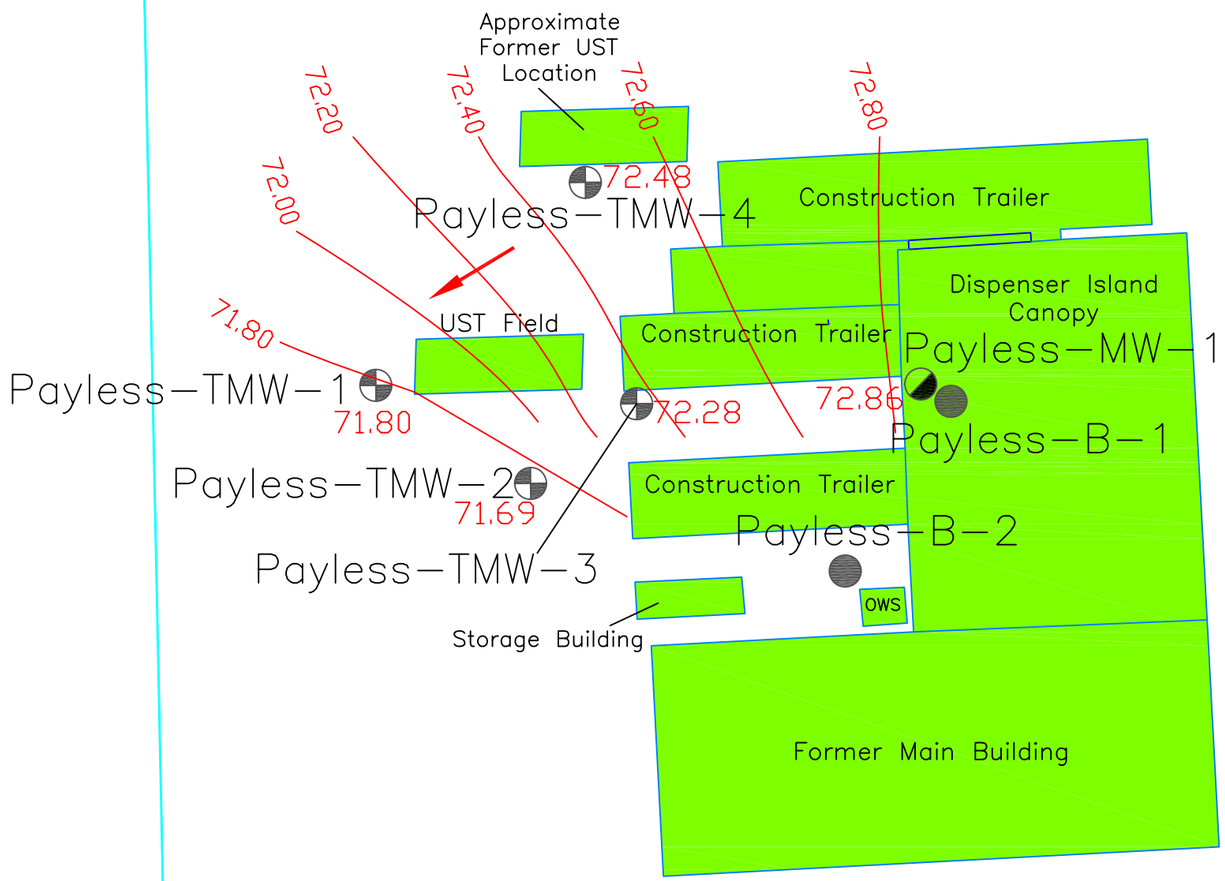
Due to anomalous elevations, TMW–3 and TMW–4 were not included in contouring.

0 20

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Advantage Groundwater Contour Map March 3,2015 Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238
	APPROVED BY: JPM	DATE: 14MAY15	DRAWING NO.: FIGURE–2–4
			REV.: 4

(Former) PAYLESS Rental Facility



TEMPORARY MONITORING WELL

SOIL BORING

PERMANENT MONITORING WELL

72.80 GROUNDWATER ELEVATION (ft.)

GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

OWS – Oil Water Separator

0 20

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: (Former) Payless Groundwater Contour Map, February 23, 2015, Charlotte Douglas Airport, Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–2–5 / REV.: 4
	APPROVED BY: JPM	DATE: 14MAY15	

G:\Data\200\Charlotte Douglas Intl Airport\Rental Car Facilities-ESA & ACM\6 Deliverables\6.1 Working Documents\ESA\Detail-Technical Review\Revised draft ESA Report\F

BUDGET Rental Facility

Car Wash

Main Building

Budget–TMW–1
71.03

OWS

71.00

Budget–TMW–2
70.48

Toll Booth Canopy

Budget–TMW–6
64.59

UST Field

Budget–TMW–5
64.73

Budget–TMW–3
67.53

Budget–TMW–4
65.43

70.00

69.00

68.00

67.00

66.00

65.00

Air Ramp Road

TEMPORARY MONITORING WELL

71.03 GROUNDWATER ELEVATION (ft.)

GROUNDWATER CONTOUR

GROUNDWATER FLOW DIRECTION

OWS – Oil Water Separator

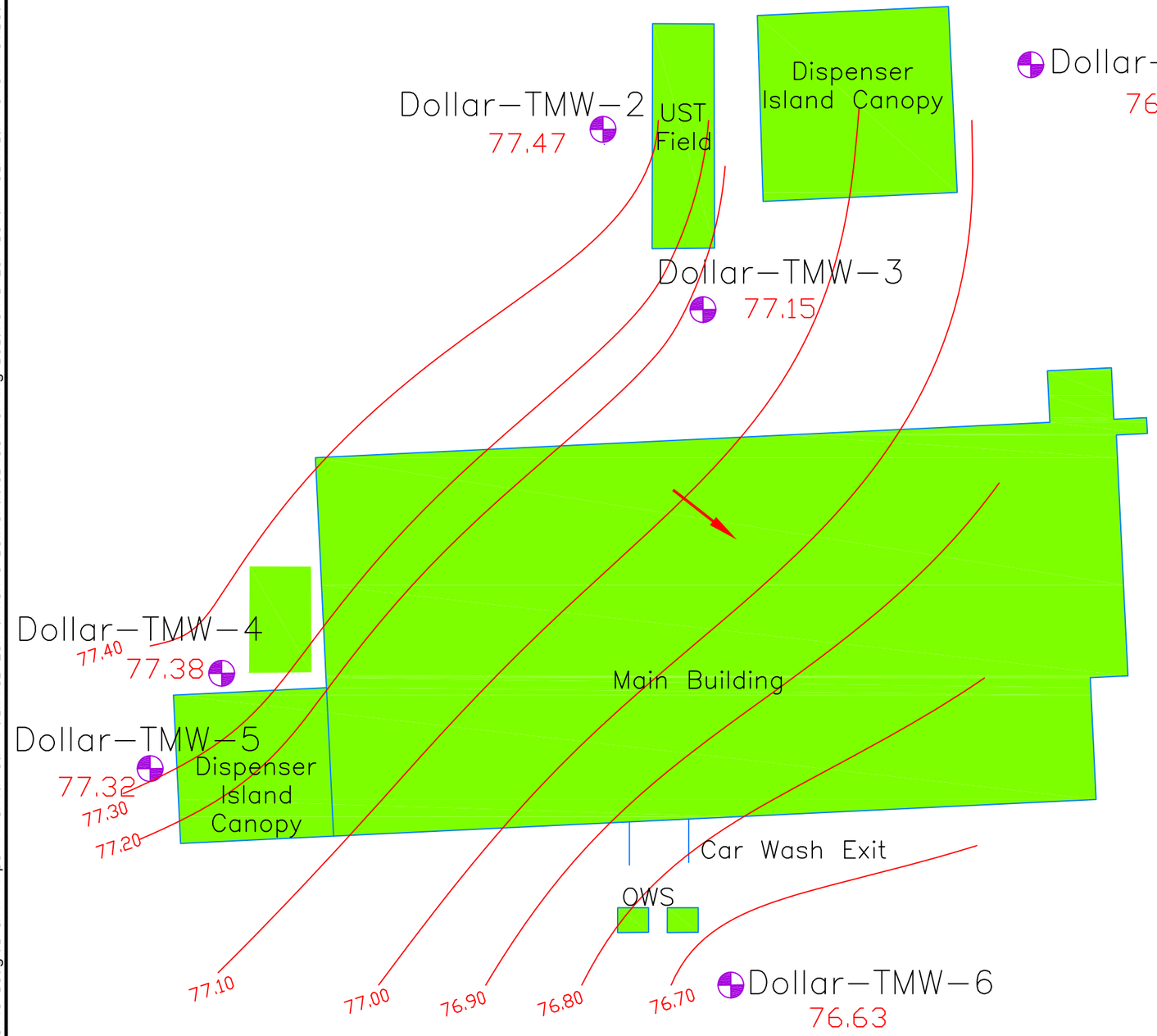
0 30

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Budget Groundwater Contour Map March 3, 2015 Charlotte Douglas Airport Charlotte, North Carolina
 AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	
	APPROVED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–2–6 / REV.: 4

G:\Data\200\Charlotte Douglas Intl Airport\Rental Car Facilities-ESA & ACM\6 Deliverables\6.1 Working Documents\ESA\Detail-Technical Review\Revised draft ESA Report

DOLLAR Rental Facility



TEMPORARY MONITORING WELL

76.93 GROUNDWATER ELEVATION (ft.)

GROUNDWATER CONTOUR

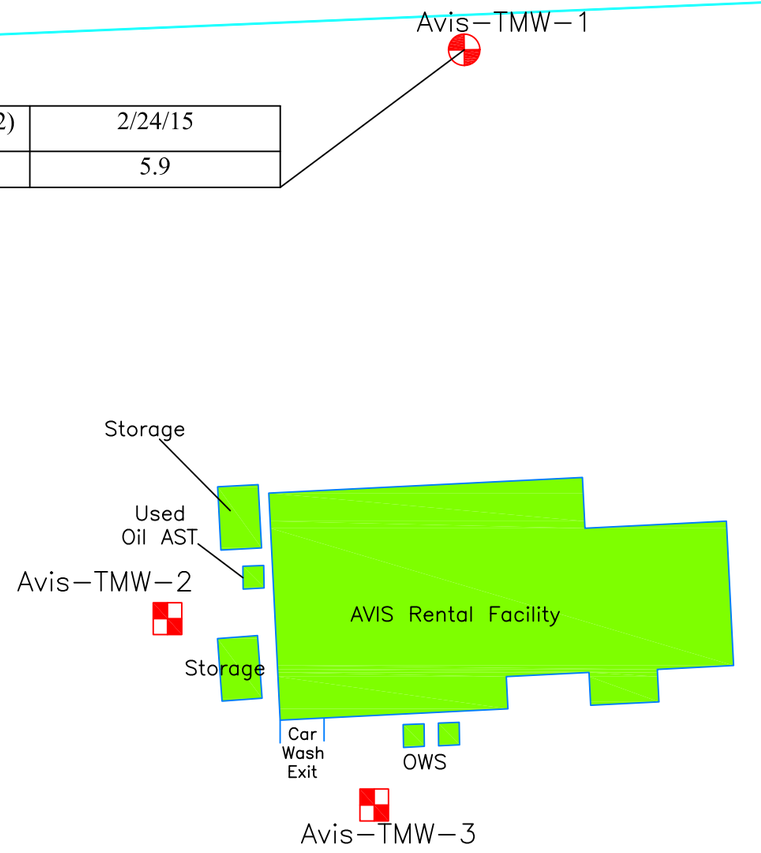
GROUNDWATER FLOW DIRECTION

OWS – Oil Water Separator

0 20

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Dollar Groundwater Contour Map March 3, 2015 Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238
	APPROVED BY: JPM	DATE: 14MAY15	DRAWING NO.: FIGURE–2–7
			REV.: 4



Avis-TMW-1 (10-12)	2/24/15
Chromium	5.9

Avis-TMW-4 (6-8)	2/25/15
1,2,4-TMB	160
1,3,5-TMB	46.0
4-Isopropyl toluene	1.5
Benzene	11.0
Ethyl benzene	49.0
Isopropyl benzene	5.9
Naphthalene	28.0
n-Butyl benzene	11.0
n-Propyl benzene	24.0
Toluene	140
Xylenes (Total)	260
GRO	3,000

Avis-TMW-4 (10-12)	2/25/15
1,2,4-TMB	50.0
1,3,5-TMB	14.0
4-Isopropyl toluene	0.53
Benzene	1.5
Ethyl benzene	13.0
Naphthalene	11.0
n-Propyl benzene	7.4
Toluene	26.0
Xylenes (Total)	68.0
GRO	560

Avis-B-1 (2-4)	2/25/15
1,2,4-TMB	25.0
Benzene	0.0057
Naphthalene	4.8
n-Propyl benzene	3.3
Xylenes (Total)	13.0
GRO	210

TEMPORARY MONITORING WELL

SOIL BORING

INTENDED MONITORING WELL

Chemical of Concern	MSCC Soil-to-Groundwater
1,2,4-TMB	8.5
1,3,5-TMB	8.3
4-Isopropyl toluene	0.12
Benzene	0.0056
Ethyl benzene	4.9
Isopropyl benzene	1.7
Naphthalene	0.16
n-Butyl benzene	4.3
n-Propyl benzene	1.7
Toluene	4.3
Xylenes (Total)	4.6
Chromium	5.4
	UST Guidance Action Levels
GRO	10

ONLY RESULTS SHOWN ARE SOIL TO GROUNDWATER MSCC EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN mg/Kg

TMB – Trimethylbenzene

GRO – Gasoline Range Oraganics

mg/Kg – milligrams per kilogram

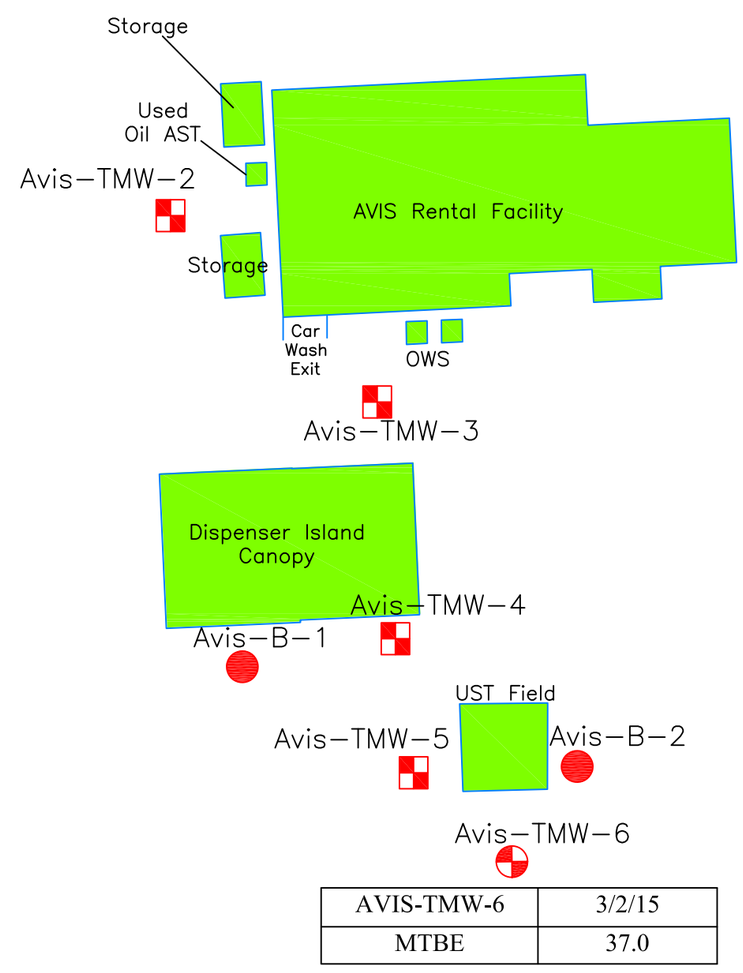
OWS – Oil Water Separator

0 40

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Avis Soil COC Map Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	
	APPROVED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–3–1 / REV.: 0

G:\Data\200\Charlotte Douglas Intl Airpor t\Rental Car Facilities–ESA & ACM\6 Deliverables\6.1 Working Documents\ESA\Detail–Technical Review\Revised draft ESA Report



AVIS-TMW-6	3/2/15
MTBE	37.0

0 40
APPROX. SCALE, ft.

TEMPORARY MONITORING WELL

SOIL BORING

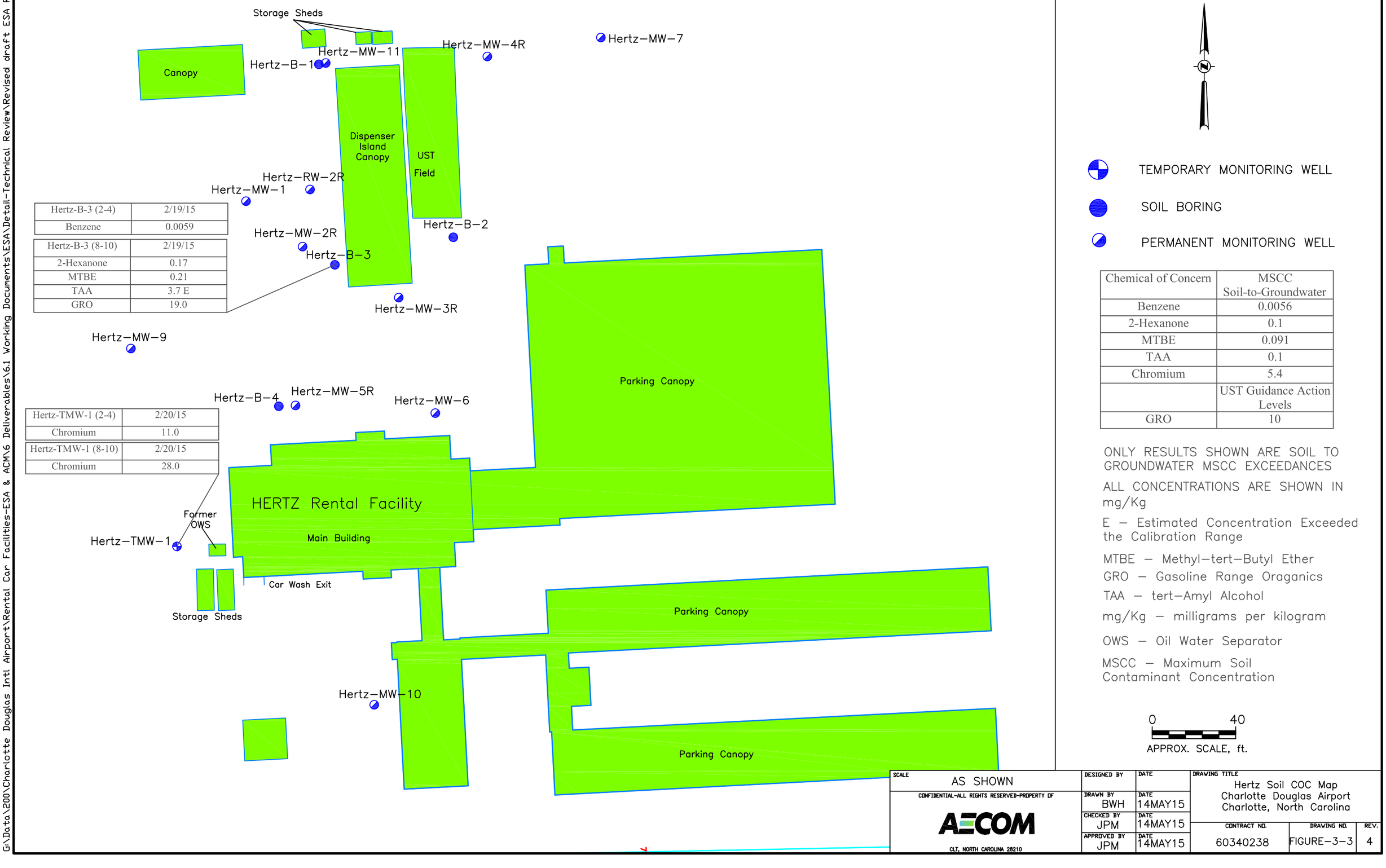
INTENDED MONITORING WELL

Constituent of Concern	NC2L
MTBE	20.0

ONLY RESULTS SHOWN ARE 2L EXCEEDANCES
ALL CONCENTRATIONS ARE SHOWN IN ug/l
MTBE – Methyl–tert–Butyl Ether
OWS – Oil Water Separator

SCALE: AS SHOWN	DESIGNED BY:	DATE:	DRAWING TITLE: Avis Groundwater COC Map Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL–ALL RIGHTS RESERVED–PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–3–2 / REV.: 0
	APPROVED BY: JPM	DATE: 14MAY15	

G:\Data\200\Charlotte Douglas Intl Airport\Rental Car Facilities–ESA & ACM\6 Deliverables\6.1 Working Documents\ESA\Detail–Technical Review\Revised draft ESA Report



Chemical of Concern	MSCC Soil-to-Groundwater
Benzene	0.0056
2-Hexanone	0.1
MTBE	0.091
TAA	0.1
Chromium	5.4
	UST Guidance Action Levels
GRO	10

ONLY RESULTS SHOWN ARE SOIL TO GROUNDWATER MSCC EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN mg/Kg

E – Estimated Concentration Exceeded the Calibration Range

MTBE – Methyl–tert–Butyl Ether

GRO – Gasoline Range Oraganics

TAA – tert–Amyl Alcohol

mg/Kg – milligrams per kilogram

OWS – Oil Water Separator

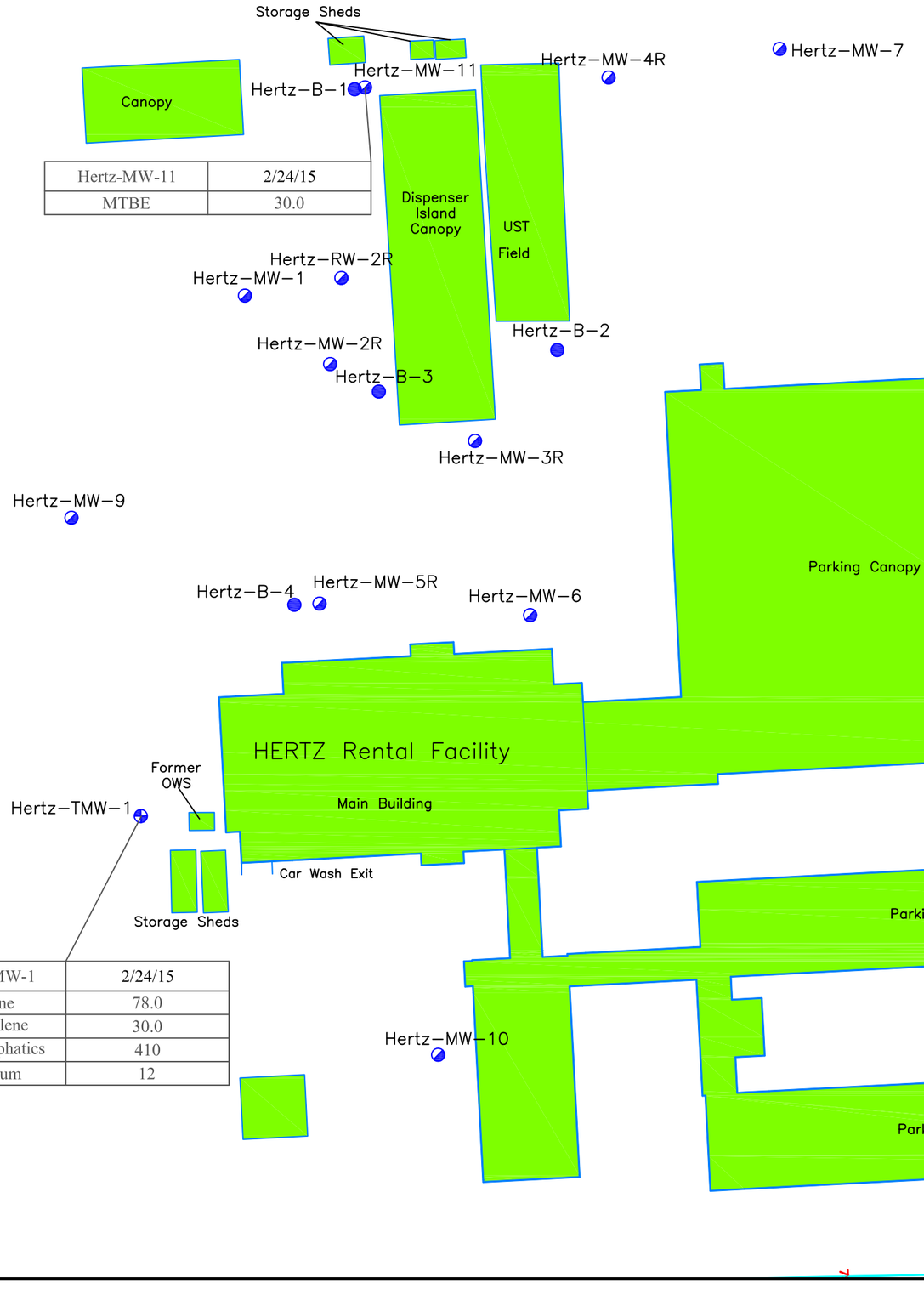
MSCC – Maximum Soil Contaminant Concentration

0 40

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Hertz Soil COC Map, Charlotte Douglas Airport, Charlotte, North Carolina
CONFIDENTIAL–ALL RIGHTS RESERVED–PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	
	APPROVED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–3–3 / REV.: 4

G:\Data\200\Charlotte Douglas Intl Airport\Rental Car Facilities–ESA & ACM\6 Deliverables\6.1 Working Documents\ESA\Detail–Technical Review\Revised draft ESA Report\F



TEMPORARY MONITORING WELL

SOIL BORING

PERMANENT MONITORING WELL

Constituent of Concern	NC2L
Benzene	1.0
MTBE	20.0
C5-C8 Aliphatics	400
Chromium	10

ONLY RESULTS SHOWN ARE 2L EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN ug/l

MTBE – Methyl–tert–Butyl Ether

OWS – Oil Water Separator

0 40

APPROX. SCALE, ft.

Avis-TMW-4 (6-8)	
1,2,4-TMB	
1,3,5-TMB	

SCALE: AS SHOWN

AECOM

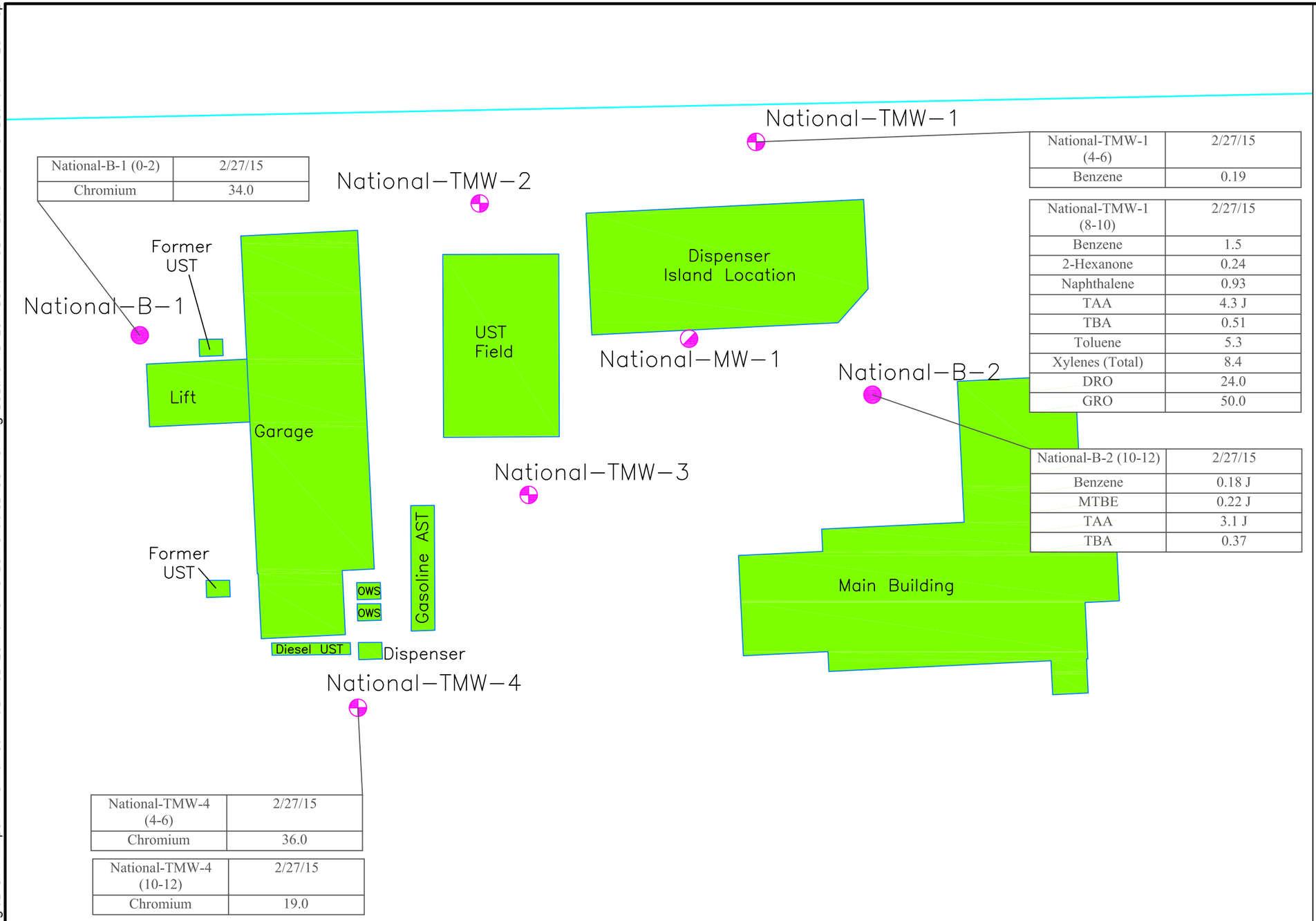
CLT, NORTH CAROLINA 28210

DESIGNED BY		DATE
DRAWN BY	BWH	DATE 14MAY15
CHECKED BY	JPM	DATE 14MAY15
APPROVED BY	JPM	DATE 14MAY15

DRAWING TITLE: Hertz Groundwater COC Map
Charlotte Douglas Airport
Charlotte, North Carolina

CONTRACT NO.	DRAWING NO.	REV.
60340238	FIGURE-3-4	4

G:\Data\200\Charlotte Douglas Intl Airport\Rental Car Facilities-ESA & ACM\6 Deliverables\6.1 Working Documents\ESA\Detail-Technical Review\Revised draft ESA Report\F



National-B-1 (0-2)	2/27/15
Chromium	34.0

National-TMW-1 (4-6)	2/27/15
Benzene	0.19

National-TMW-1 (8-10)	2/27/15
Benzene	1.5
2-Hexanone	0.24
Naphthalene	0.93
TAA	4.3 J
TBA	0.51
Toluene	5.3
Xylenes (Total)	8.4
DRO	24.0
GRO	50.0

National-B-2 (10-12)	2/27/15
Benzene	0.18 J
MTBE	0.22 J
TAA	3.1 J
TBA	0.37

National-TMW-4 (4-6)	2/27/15
Chromium	36.0

National-TMW-4 (10-12)	2/27/15
Chromium	19.0

TEMPORARY MONITORING WELL

SOIL BORING

PERMANENT MONITORING WELL

Chemical of Concern	MSCC Soil-to-Groundwater
Benzene	0.0056
MTBE	0.091
Naphthalene	0.16
2-Hexanone	0.1
TAA	0.1
TBA	0.04
Toluene	4.3
Xylenes (Total)	4.6
Chromium	5.4
	UST Guidance Action Levels
DRO	10
GRO	10

ONLY RESULTS SHOWN ARE SOIL TO GROUNDWATER MSCC EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN mg/Kg

J – Estimated Value

MTBE – Methyl–tert–Butyl Ether

TAA – tert–Amyl Alcohol

TBA – tert–Butyl Alcohol

DRO – Diesel Range Oraganics

GRO – Gasoline Range Oraganics

mg/Kg – milligrams per kilogram

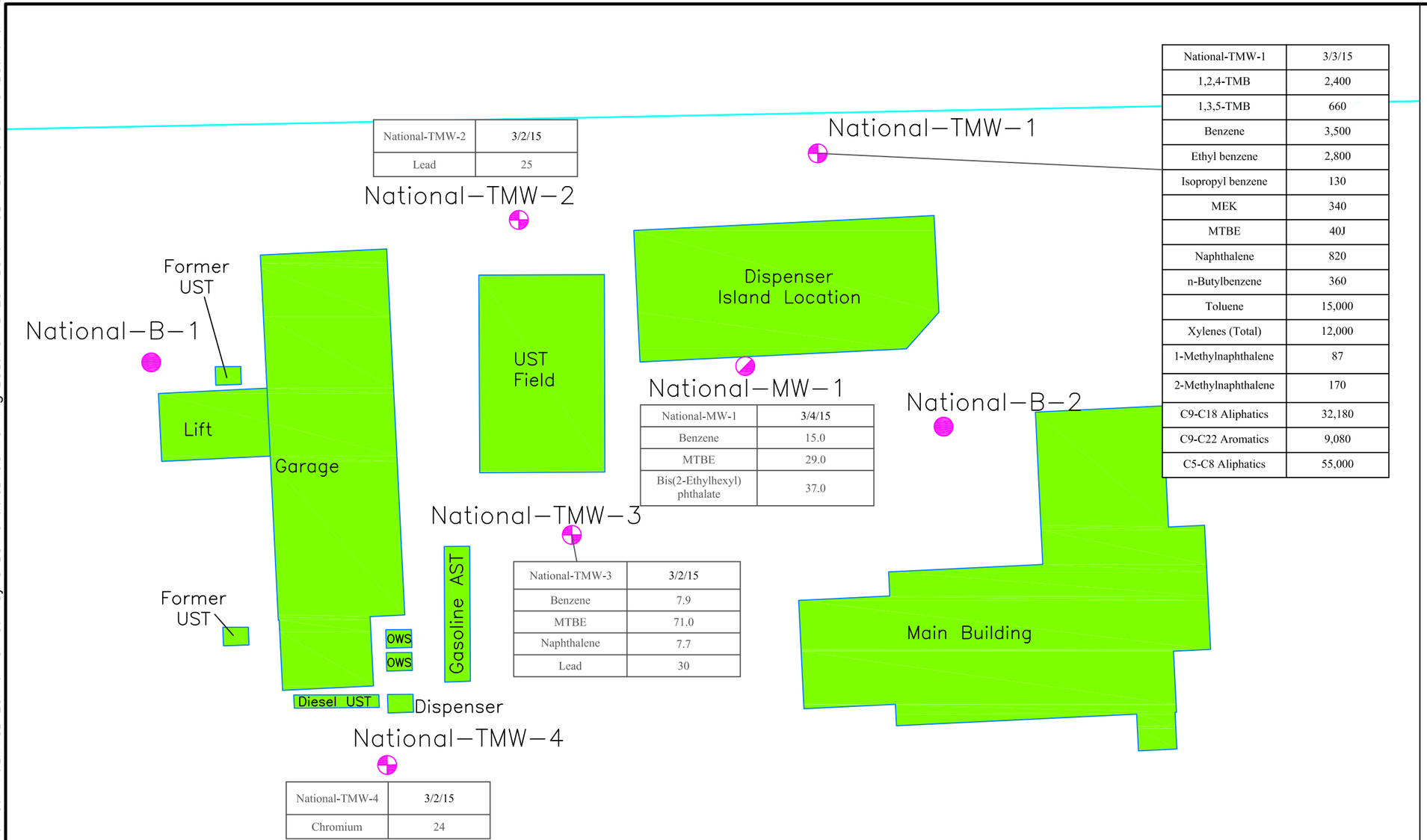
0 25

APPROX. SCALE, ft.

NATIONAL Rental Facility

ADVANTAGE Rental Facility

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: National Soil COC Map Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–3–5 / REV.: 4
	APPROVED BY: JPM	DATE: 14MAY15	



National-TMW-1	3/3/15
1,2,4-TMB	2,400
1,3,5-TMB	660
Benzene	3,500
Ethyl benzene	2,800
Isopropyl benzene	130
MEK	340
MTBE	40J
Naphthalene	820
n-Butylbenzene	360
Toluene	15,000
Xylenes (Total)	12,000
1-Methylnaphthalene	87
2-Methylnaphthalene	170
C9-C18 Aliphatics	32,180
C9-C22 Aromatics	9,080
C5-C8 Aliphatics	55,000

National-TMW-2	3/2/15
Lead	25

National-MW-1	3/4/15
Benzene	15.0
MTBE	29.0
Bis(2-Ethylhexyl) phthalate	37.0

National-TMW-3	3/2/15
Benzene	7.9
MTBE	71.0
Naphthalene	7.7
Lead	30

National-TMW-4	3/2/15
Chromium	24

TEMPORARY MONITORING WELL

SOIL BORING

PERMANENT MONITORING WELL

Constituent of Concern	NC 2L
1,2,4-TMB	400
1,3,5-TMB	400
Benzene	1.0
Ethyl benzene	600
Isopropyl benzene	70
MEK	4,000
MTBE	20
Naphthalene	6.0
n-Butylbenzene	70
Toluene	600
Xylenes (Total)	500
1-Methylnaphthalene	1.0 (I)
2-Methylnaphthalene	30
C9-C18 Aliphatics	700
C9-C22 Aromatics	200
C5-C8 Aliphatics	400
Chromium	10
Lead	15
Bis(2-ethylexyl)phthalate	3.0

ONLY RESULTS SHOWN ARE 2L EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN ug/l

MTBE – Methyl–tert–Butyl Ether
TMB – Trimethylbenzene
MBK – Methylbutylketone

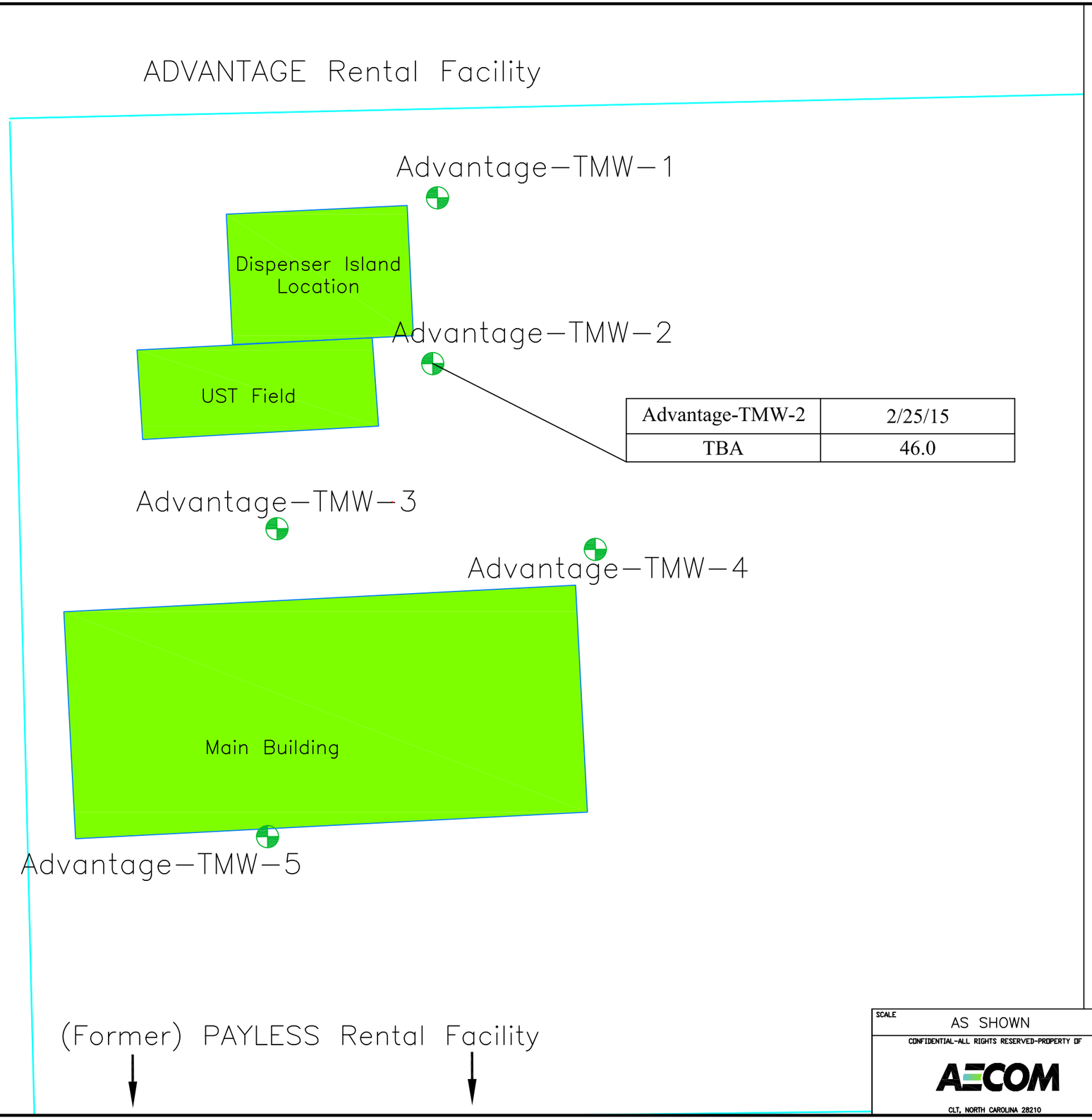
J – Estimated Value
I – Interim Maximum Allowable Concentration

0 25

APPROX. SCALE, ft.

NATIONAL Rental Facility

SCALE: AS SHOWN	DESIGNED BY:	DATE:	DRAWING TITLE: National Groundwater COC Map Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–3–6 / REV.: 4
	APPROVED BY: JPM	DATE: 14MAY15	



TEMPORARY MONITORING WELL

Constituent of Concern	NC2L
TBA	10.0 (I)

ONLY RESULTS SHOWN ARE 2 L EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN ug/l

TBA – tert–Butyl Alcohol

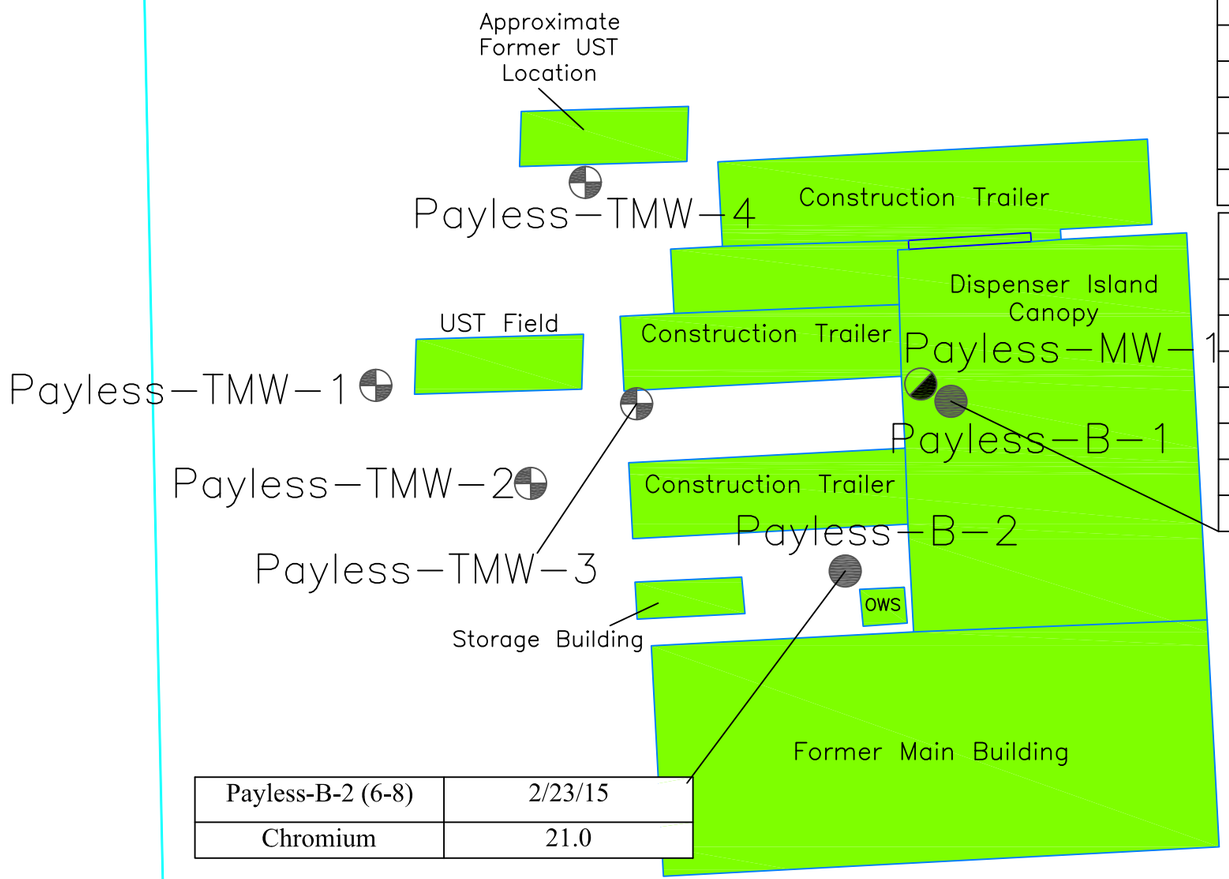
I – Interim Maximum Allowable Concentration (IMAC)

0 20

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY:	DATE:	DRAWING TITLE: Advantage Groundwater COC Map Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238
	APPROVED BY: JPM	DATE: 14MAY15	DRAWING NO.: FIGURE–3–7
			REV.: 4

(Former) PAYLESS Rental Facility



Payless-B-1 (4-6)	2/20/15
1,2,4-TMB	23.0
4-Isopropyl toluene	0.97
Isopropyl benzene	2.0
Naphthalene	9.3
n-Butyl benzene	5.4
n-Propyl benzene	8.6
Xylenes (Total)	9.0
DRO	200
GRO	1,000

Payless-B-1 (10-12)	2/20/15
1,2,4-TMB	11.0
4-Isopropyl toluene	0.35
Naphthalene	2.7
n-Propyl benzene	2.0
Xylenes (Total)	14.0
DRO	170
GRO	540

Payless-B-2 (6-8)	2/23/15
Chromium	21.0

TEMPORARY MONITORING WELL

SOIL BORING

PERMANENT MONITORING WELL

Chemical of Concern	MSCC Soil-to-Groundwater
1,2,4-TMB	8.5
4-Isopropyl toluene	0.12
Isopropyl benzene	1.7
Naphthalene	0.16
n-Butyl benzene	4.3
n-Propyl benzene	1.7
Xylenes (Total)	4.6
Chromium	5.4
	UST Guidance Action Levels
DRO	10
GRO	10

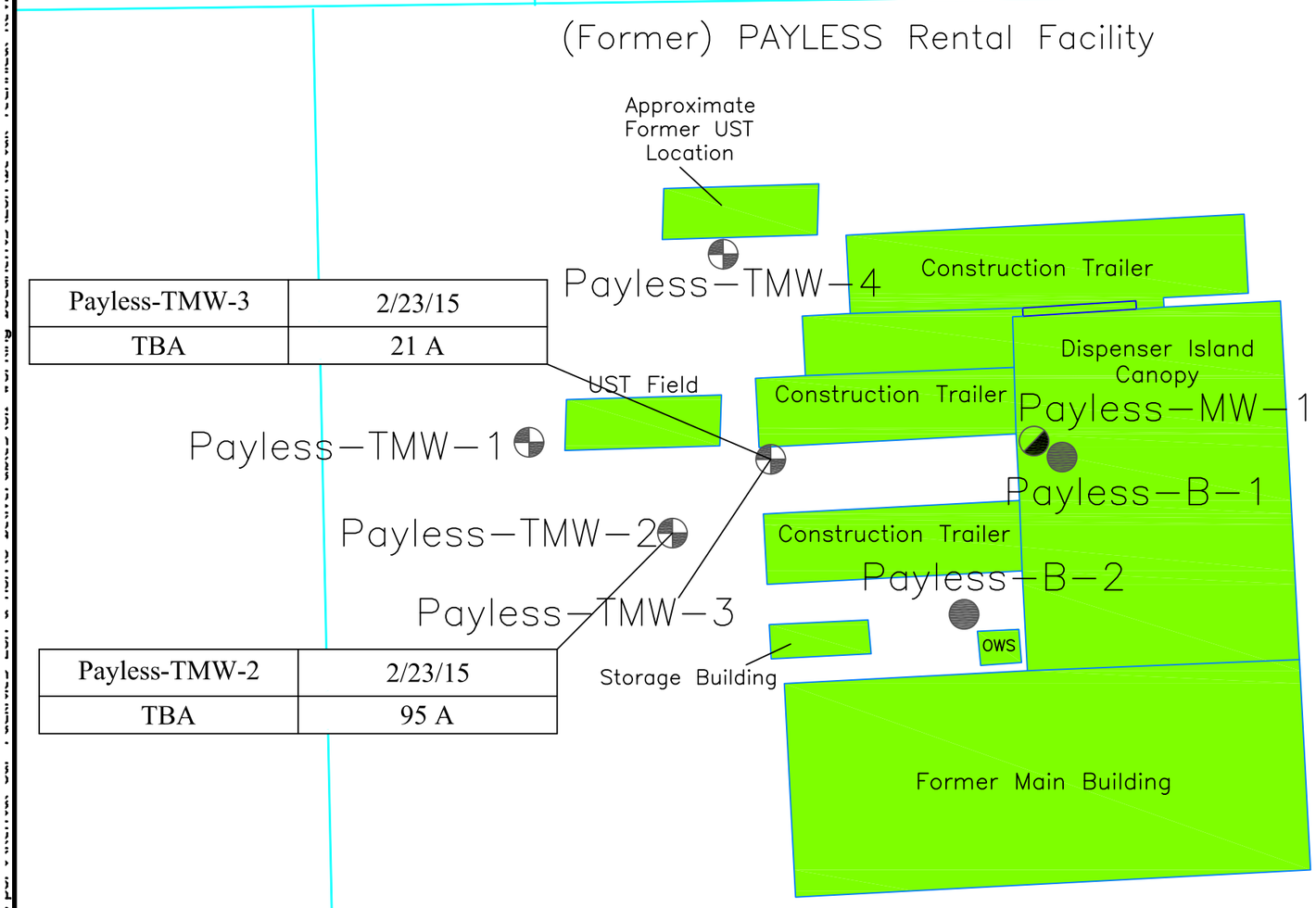
ONLY RESULTS SHOWN ARE SOIL TO GROUNDWATER MSCC EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN mg/Kg

TMB – Trimethylbenzene
DRO – Diesel Range Oraganics
GRO – Gasoline Range Oraganics
mg/Kg – milligrams per kilogram
MSCC – Maximum Soil Contaminant Concentration
OWS – Oil Water Separator

0 20
APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: (Former) Payless Soil COC Map, Charlotte Douglas Airport, Charlotte, North Carolina
AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–3–8 / REV.: 4
	APPROVED BY: JPM	DATE: 14MAY15	



TEMPORARY MONITORING WELL

SOIL BORING

PERMANENT MONITORING WELL (INSTALLED BY OTHERS)

Constituent of Concern	NC2L
TBA	10.0 (I)

ONLY RESULTS SHOWN ARE 2 L EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN ug/l

TBA – tert-Butyl Alcohol

A – Low Continuous Calibration Verification Recovery

I – Interim Maximum Allowable Concentration (IMAC)

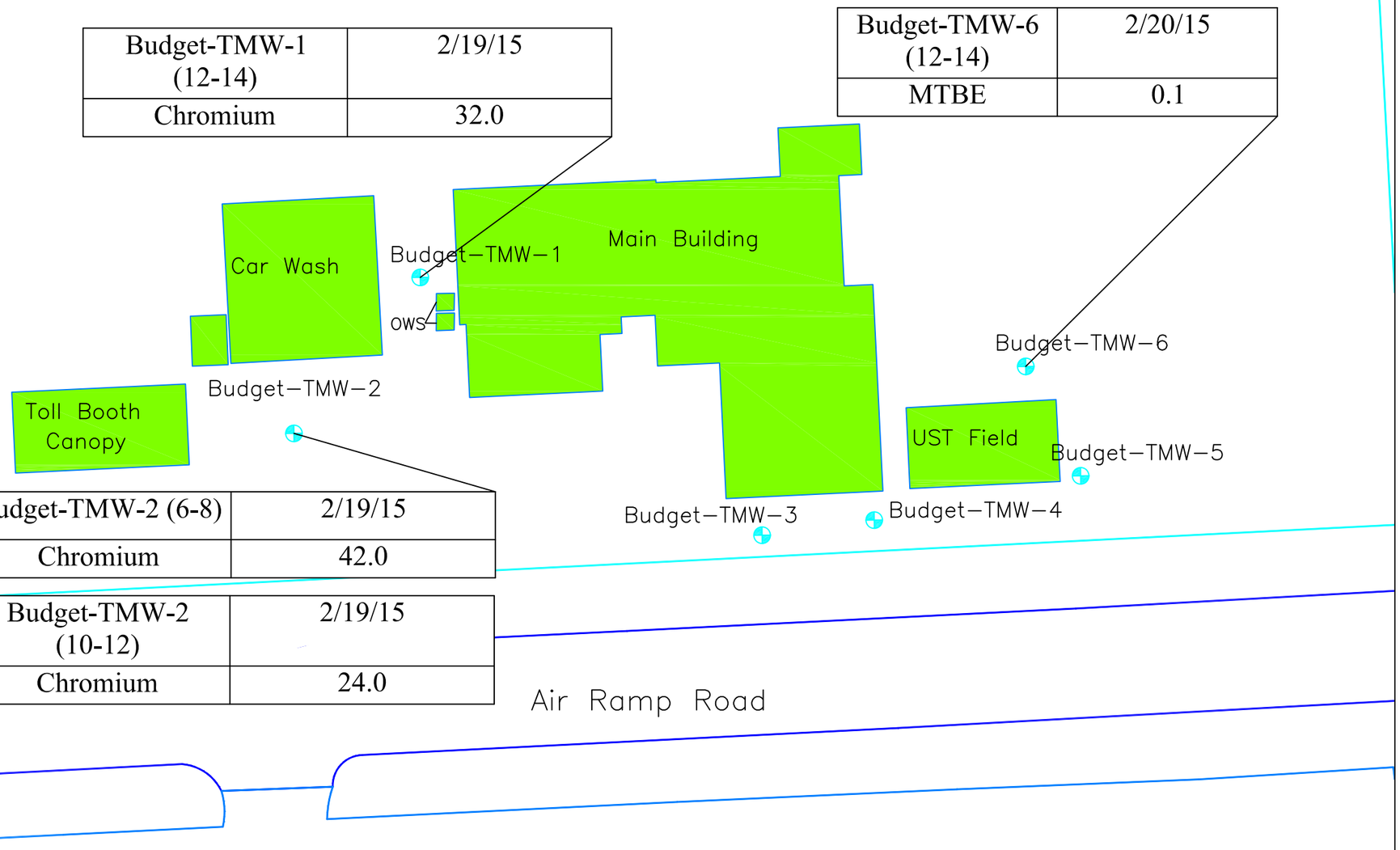
Note: Unable to locate MW-2

0 20

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: (Former) Payless Groundwater COC Map Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	
	APPROVED BY: JPM	DATE: 14MAY15	
	CONTRACT NO.: 60340238	DRAWING NO.: FIGURE-3-9	REV.: 4

BUDGET Rental Facility



TEMPORARY MONITORING WELL

Chemical of Concern	MSCC Soil-to-Groundwater
MTBE	0.091
Chromium	5.4

ONLY RESULTS SHOWN ARE SOIL TO GROUNDWATER MSCC EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN mg/Kg

MTBE – Methyl-tert-Butyl Ether

MSCC – Maximum Soil Contaminant Concentration

mg/Kg – milligrams per kilogram

OWS – Oil Water Separator

0 30

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Budget Soil COC Map, Charlotte Douglas Airport, Charlotte, North Carolina
AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE-3-10 / REV.: 4
	APPROVED BY: JPM	DATE: 14MAY15	

BUDGET Rental Facility

Budget-TMW-1 (12-14)	2/20/15
Chromium	13

Budget-TMW-6 (13-15)	2/25/15
Isopropyl Ether	140
MTBE	740
TBA	1600
C5-C8 Aliphatics	930

Car Wash

Main Building

Budget–TMW–1

OWS

Budget–TMW–6

Budget–TMW–2

Toll Booth Canopy

UST Field

Budget–TMW–5

Budget–TMW–3

Budget–TMW–4

Budget-TMW-3	2/25/15
Benzene	4.5
MTBE	83.0
Naphthalene	11.0
Lead	55

Budget-TMW-5	2/20/15
MTBE	610
TBA	680 A
C5-C8 Aliphatics	840

Air Ramp Road

Budget-TMW-4	2/25/15
MTBE	31.0

TEMPORARY MONITORING WELL

Constituent of Concern	NC2L
Benzene	1.0
Isopropyl Ether	70.0
MTBE	20.0
Naphthalene	6.0
Lead	15
TBA	10.0 (I)
Bis(2-Ethylhexyl) phthalate	3.0
C5-C8 Aliphatics	400
Chromium	10

ONLY RESULTS SHOWN ARE 2L EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN ug/l

MTBE – Methyl–tert–Butyl Ether

TBA – tert–Butyl Alcohol

OWS – Oil Water Separator

A – Low Continuous Calibration Verification Recovery

I – Interim Maximum Allowable Concentration (IMAC)

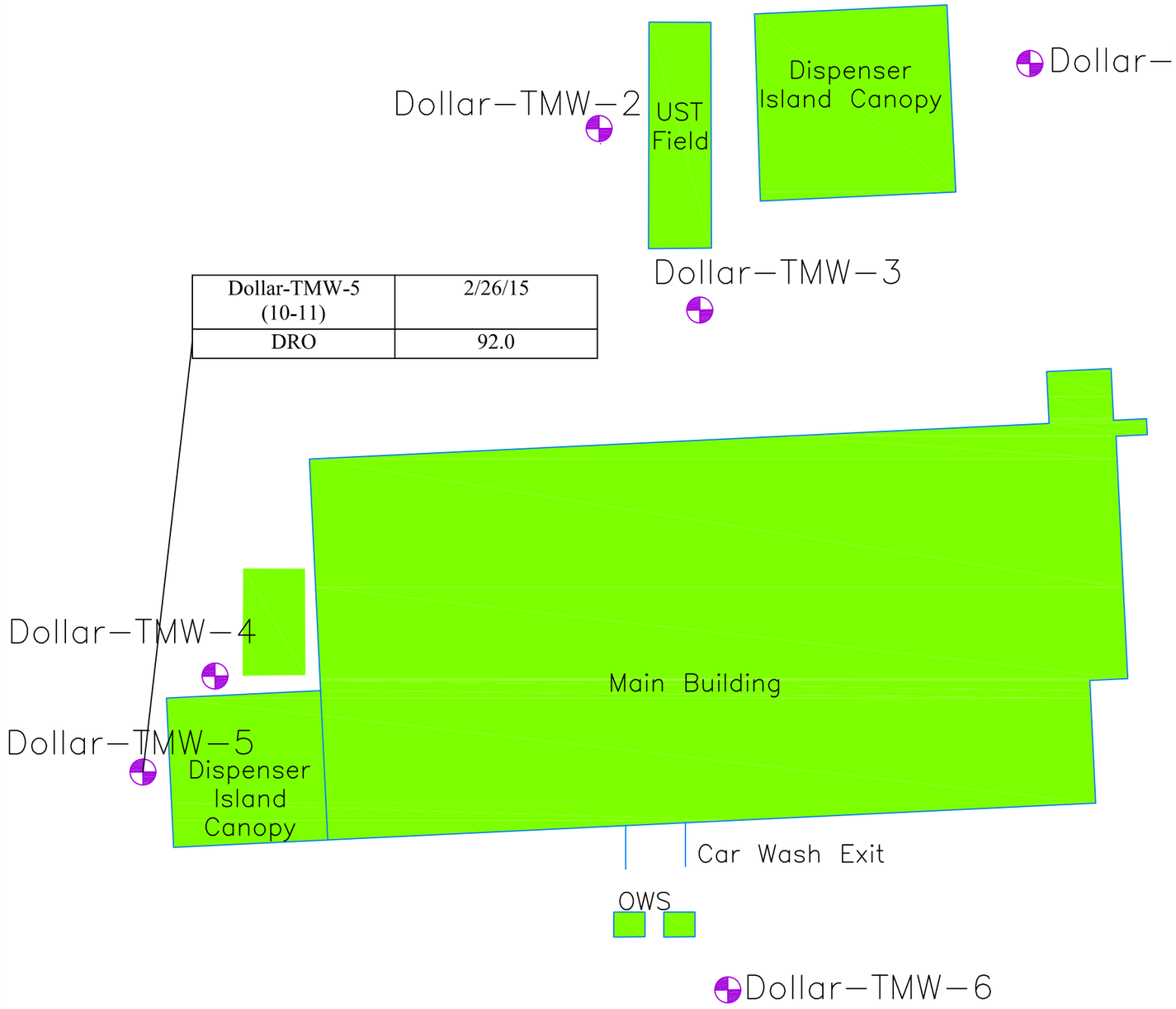
0 30

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Budget Groundwater COC Map Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–3–11 / REV.: 4
	APPROVED BY: JPM	DATE: 14MAY15	

G:\Data\200\Charlotte Douglas Intl Airport\Rental Car Facilities-ESA & ACM\6 Deliverables\6.1 Working Documents\ESA\Detail-Technical Review\Revised draft ESA Report\F

DOLLAR Rental Facility



Dollar-TMW-5 (10-11)	2/26/15
DRO	92.0

TEMPORARY MONITORING WELL

Chemical of Concern	UST Guidance Action Levels
DRO	10

ALL CONCENTRATIONS ARE SHOWN IN mg/Kg

DRO – Diesel Range Oraganics

mg/Kg – milligrams per kilogram

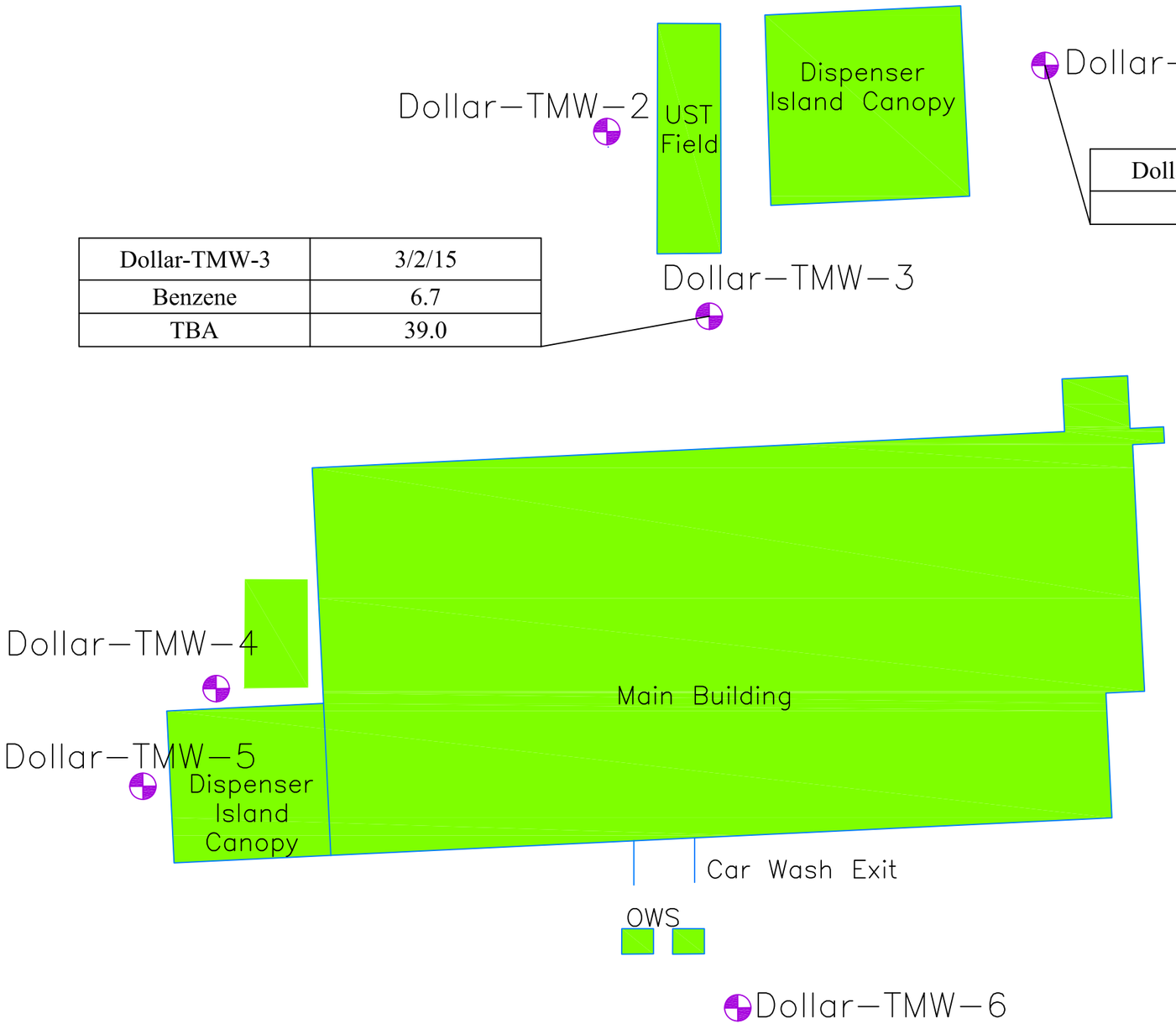
OWS – Oil Water Separator

0 20

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Dollar Soil COC Map Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	
	APPROVED BY: JPM	DATE: 14MAY15	
	CONTRACT NO.: 60340238	DRAWING NO.: FIGURE–3–12	REV.: 4

DOLLAR Rental Facility



Dollar-TMW-1	2/27/15
Lead	23

Dollar-TMW-3	3/2/15
Benzene	6.7
TBA	39.0

TEMPORARY MONITORING WELL

Constituent of Concern	NC2L
Benzene	1.0
Lead	15
TBA	10.0 (I)

ONLY RESULTS SHOWN ARE 2 L EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN ug/l

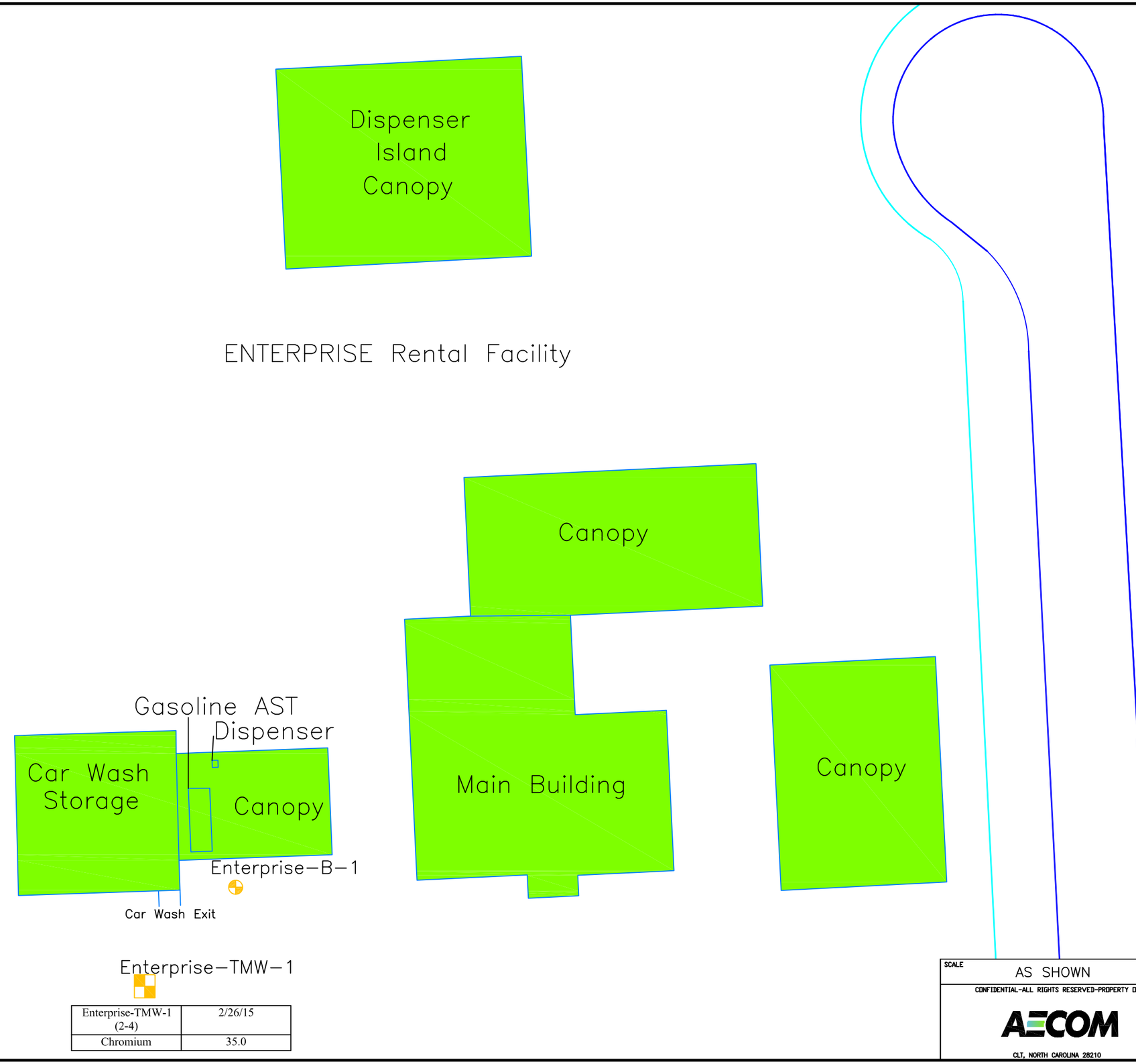
TBA – tert–Butyl Alcohol

I – Interim Maximum Allowable Concentration (IMAC)

0 20

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Dollar Groundwater COC Map Charlotte Douglas Airport Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	
	APPROVED BY: JPM	DATE: 14MAY15	CONTRACT NO.: 60340238 / DRAWING NO.: FIGURE–3–13 / REV.: 4



Enterprise-TMW-1 (2-4)	2/26/15
Chromium	35.0

TEMPORARY MONITORING WELL

INTENDED MONITORING WELL

Chemical of Concern	MSCC Soil-to-Groundwater
Chromium	5.4

ONLY RESULTS SHOWN ARE SOIL TO GROUNDWATER MSCC EXCEEDANCES

ALL CONCENTRATIONS ARE SHOWN IN mg/Kg

mg/Kg – milligrams per kilogram

MSCC – Maximum Soil Contaminant Concentration

0 30

APPROX. SCALE, ft.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Enterprise Soil COC Map, Charlotte Douglas Airport, Charlotte, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF AECOM CLT, NORTH CAROLINA 28210	DRAWN BY: BWH	DATE: 14MAY15	
	CHECKED BY: JPM	DATE: 14MAY15	
	APPROVED BY: JPM	DATE: 14MAY15	
	CONTRACT NO.: 60340238	DRAWING NO.: FIGURE-3-14	REV.: 4

Appendix A.
Site Specific Health and Safety Plan

4sight

At URS, we believe that all injuries are preventable.

The most effective way to prevent injuries is to identify hazards before they become incidents.

4sight is a program that helps us do just that.

4sight reminds you to ask 4 simple questions before beginning a task:

- **What am I about to do?**
- **What could go wrong?**
- **What could be done to make it safer?**
- **What have I done to communicate the hazards?**

Taking a few minutes to stop and think about the task ahead is using 4sight.

Use 4sight at the beginning of every task and during your day.

Remember to stop, step back and use a bit of 4sight.

URS

Safety for life

Safety STARTS WITH Me

HEALTH AND SAFETY PLAN

Prepared for:

Charlotte-Douglas INTERNATIONAL AIRPORT

Rental Car Facilities
Soil/Groundwater Assessment and Asbestos Surveys
AECOM Project No. 60340238

February 2015

URS

AECOM

URS Corporation-North Carolina
AECOM Technical Services
Of North Carolina
6000 Fairview Road; Suite 200
Charlotte, North Carolina 28210
704-522-0330

Charlotte-Douglas International Airport
Charlotte, NC

Project Number: 60340238

HEALTH AND SAFETY PLAN

February 2015

Prepared for:

Prepared by:

URS Corporation – North Carolina
AECOM Technical Services of North Carolina
Charlotte, North Carolina

Approved: _____ 2/10/2015

Michelle Friedman
AECOM Project Manager

Approved: _____ 2/10/2015

Christopher Rocco

Charlotte Office Safety, Health and Environment Representative

Approved: _____ 2/13/2015

Russ Reynolds
AECOM Safety, Health and Environment Manager – Carolinas/Tennessee

This HASP is valid for up to one year from date of approval.

THIS HASP IS TO BE USED FOR THE SPECIFIC PROJECT DESCRIBED HEREIN. IT IS NOT TO BE USED FOR ANY OTHER PROJECT. THIS PLAN MUST BE REVISED AS APPROPRIATE TO ADDRESS CHANGING SITE CONDITIONS OR MODIFIED SCOPE OF WORK.

This HASP, and each of its provisions, is applicable only to, and for use only by, AECOM Technical Services of North Carolina (AECOM), its affiliates, and its subcontractors. Any use of this Plan by other parties, including, without limitation, third party contractors on projects where AECOM is providing engineering, construction management or similar services, without the express written permission of AECOM, will be at that party's sole risk, and AECOM shall have no responsibility therefore. The existence and use of this Plan by AECOM shall not be deemed an admission or evidence of any acceptance of any safety responsibility by AECOM for other parties unless such responsibility is expressly assumed in writing by AECOM in a specific project contract.

Table of Contents

Attachments

URS

Health and Safety Plan

1. Introduction

Charlotte-Douglas International Airport (CLT) and URS Corporation (URS), an AECOM affiliated company, are committed to providing a safe and healthful work environment. Our goal is zero incidents, meaning that we strive to complete every project without injury, illness, property damage, or environmental damage. Safety must always take precedence over expediency.

This Health and Safety Plan (HASP) summarizes health and safety hazard information for AECOM field activities associated with the soil/groundwater assessment and asbestos surveys CLT former rental car facilities located in Charlotte, North Carolina. The AECOM HASP delineates procedures that will allow personnel to work safely and respond quickly and appropriately to site emergencies. All site work will be conducted in accordance with requirements of the URS Safety, Health and Environment (SHE) Program and Management System that is available the AECOM website. All site work will be conducted in accordance with Occupational Safety and Health Administration (OSHA) regulations in the Code of Federal Regulations (CFR), Title 29, Parts 1904, 1910, and 1926 as well as occupational health rules of North Carolina.

The URS Regional SHE Manager reviewed this HASP to verify compliance with applicable requirements. The Regional SHE Manager must approve any modifications to the procedures in this plan. The Project Manager is responsible for implementation of this plan.

URS

2. Scope of Work

Activities covered under this HASP include all field activities associated with the CLT project pertaining to the former rental car facilities portion of the property. This plan has been developed for AECOM personnel only.

This plan is valid from February 2015 to February 2016. The Project Manager and Site Safety Officer(s) are responsible for implementation of this plan.

Scope of work and major tasks	SCOPE OF WORK: URS is providing environmental services for the above referenced Site, including: • Soil boring activities, with corresponding sampling and assessment; • Monitoring well installation activities; • Groundwater sample collection activities; and, • Asbestos surveys for each rental car facility. When necessary, AECOM will provide oversight of Subcontractors directly under AECOM's supervision during drilling, site maintenance, remediation system construction/enhancement/repair activities. MAJOR TASKS: • Collection of soil samples • Collection of groundwater samples • Comprehensive well inventory for current monitoring network to determine integrity of each well; • Hollow stem auger and/or Air Rotary/Hammer drilling for installation of shallow monitoring wells; and, • Conducting asbestos surveys for each of the former rental car facilities.
AECOM employees assigned	• Chris Rocco – Site Supervisor/Field Coordinator – Asbestos Surveys • Brandt Morrow – Site Supervisor/Field Coordinator – Soil/Groundwater Assessment • James McDorman – Project Coordinator • Erik Riegel – Field Support – Asbestos surveys • Matt Stone – Field Support – Soil/Groundwater Assessment • Andy Wreschnig – Field Support - Soil/Groundwater Assessment

Subcontractors	• Drilling Subcontractors – Terra Sonic • Air knifing and Utility mark out – Probe Utility Locating • Waste Handler (soils, liquids) – TBD; handled by CLT • Remediation Construction Subcontractors - TBD
Equipment needed	• Company/Rental Vehicle • Small/Medium-sized hand tools • Plastic baggies • Nitrile Gloves • Sample bottles • PPE, as required by AECOM • Bailers, rope, pumps with tubing • Scissors • Hollow Stem Auger or Air Rotary Drill Rig
Dates of the work	• Work to be completed throughout the year from February 2015 through February 2016
What are the major hazards associated with each work activity?	See attached Job Safety Analyses (Attachment C).

3. Key Personnel		
Position	**Name**	**Phone Numbers**
AECOM Project Manager	Michelle Friedman	919-239-7156 (office) 919-619-8470 (cell)
URS Field Supervisor/Project Coordinators	Chris Rocco Brandt Morrow	704-716-0757 (office) 704-264-5155 (cell) 704-716-0745 (office) 704-615-5278 (cell)
Program Manager	James McDorman Rick Sanderson	704-522-0330 (office) 704-556-5049 (cell)
Office SHE Representative	Chris Rocco	704-716-0757 (office) 704-264-5155 (cell)
Regional SHE Manager	Russ Reynolds	864-906-7309 (Cell)
Occupational Health Manager	Work Care	888-449-7787

URS

4. Task/ Operation Health and Safety Hazard Assessment

Site Location and History

This HASP covers the Project Scope as set forth in Attachment 2 of the Request for Qualifications (RFQ) dated September 18, 2014. It also incorporates the areas of concern (AOCs) identified during the File Review and Site Visit conducted on December 4, 2014. The following table identifies each AOC:

Table 1: Areas of Concern

Car Rental Facility	Gasoline UST or AST + dispensers	Diesel UST or AST + dispensers	Motor oil / ATF UST or AST	Used Oil UST or AST	Oil Water Separator UST	Others
Avis	2 removed, 1x12,000 gal current		550-gallon removed	550-gallon removed	Car wash	
Hertz	1x10,000-gallon UST, 1x20,000-gallon UST open release from dispenser	1 AST	2,000-gallon UST	550 gallon UST	Reportedly out of service	
National	2x10,000-gallon UST (out of service) 1 AST	1 AST	1x550-gallon UST, removed	1x550-gallon UST, removed	Car wash	
Advantage	1x10,000-gallon UST removed 1x10,000-gallon					Hydraulic lift removed, incident 85116. 500-gal non-regulated UST in 1964?
Payless	1x10,000-gallon UST removed 1x8,000-gallon UST out of service			1x550-gallon removed.	Suspected OWS at same location as used oil OWS	
Budget	2x10,000-gal USTs removed 1x12,000-gal UST current				Yes	
Dollar	1x12,000-gal UST current Reportedly 1x10,000-gallon UST	1x4,000-gal diesel UST			Yes	
Enterprise	1 AST				Suspected	

Chemical Hazards	Petroleum hydrocarbons associated with gasoline, diesel, kerosene and oils. Benzene is generally the chemical of most concern due to its low Permissible Exposure Limit of 1.0 parts per million (ppm). Ethyl benzene, toluene, and xylene are also of concern. Exposure to petroleum hydrocarbons can result in eye and throat irritation, headache, nausea, and blurred vision. Long-term exposure to high levels of benzene in the air can cause leukemia. During sampling activities, soil and groundwater samples may be introduced into sample containers that contain strong acids or bases which are used as sample preservatives. Alternatively these preservatives may introduced in to a sample after the samples has been placed into the sample container. These preservatives can act be harmful if they come into contact with the sampler etc. through direct contact from leaks, spills and splashing, or through inhalation of vapors. Appropriate PPE (see Section 7 of this HASP) and care should be taken when handling any containers holding these preservatives including, but not limited to nitrile gloves, safety glasses, and other appropriate protective clothing. See URS SMS 009 (Corrosive and Reactive Materials) for additional guidance. In addition to petroleum compounds, there is potential for asbestos-containing materials (ACM) to be present onsite, as well as for AECOM personnel to come in contact with these materials during the building surveys. Survey personnel will collect samples in a manner to minimize release of fibers to the air, which will include the adequate wetting of the materials.
Physical Hazards	Heavy equipment, drill rig or Geoprobe® will potentially be used as part of this scope of work. Noise, slips, trips, falls, weather, fire/explosion, above ground and buried utilities may be encountered during site activities. Fire/explosion and aboveground/buried utilities are unlikely to be encountered by AECOM personnel. Safe access to the roofing materials will be provided to AECOM personnel to examine and sample the suspect materials associated.
Biological Hazards	Potential for exposure to poisonous snakes, plants and spiders, insects, scorpions, mosquitoes, ticks, animal droppings, small biting animals and wildlife, and domestic pets are anticipated, but expected to be minimal.
Hazard Controls	Chemical, physical, and biological hazards will be minimized through engineering controls, employee training, administrative controls, and **when necessary**, personal protective equipment (PPE). Site specific controls are addressed in the Job Safety Analysis (JSA) contained in **Attachment C**. Minimum PPE requirements for the sites include long pants, steel-toed leather boots with good tread and coverage above the ankle, hard hat, safety glasses, and task appropriate gloves. Additional PPE requirements will be discussed in **Attachment C** to the relevant tasks.
Requirements Specific to the site	Muster point will be designated in the front of the property, should any emergencies arise that require evacuation.

URS

CHEMICAL EXPOSURE LIMITS

Chemical Name	OSHA PEL		ACGIH TLV		Chronic Health Hazards/ Target Organs
	TWA	STEL	TWA	STEL	
Asbestos	0.1fiber/cc (8-hours);	1 fiber/cc (0.5 hours)	0.1 fibers/cc	--	Respiratory System
Gasoline	None	None	300 ppm	500 ppm	Eye & Throat Irritant Chemical Pneumonia, Possible Liver and Kidney Damage, CNS
Kerosene	None	None	100 mg/m^3 (v)	---	eye, skin, nose, throat irritant; burning sensation in chest; Target organs are eyes, skin, respiratory system and central nervous system
Diesel	None	None	100 mg/m^3 (v)	----	Skin Irritant & Central Nervous System Depressant
Benzene	1 ppm	5 ppm	0.5 ppm	2.5 ppm	Eye Irritant. Skin, Nose and Respiratory; Central Nervous System Depressant, Carcinogen
Ethyl benzene	100 ppm	None	100 ppm	125 ppm	Eyes, Skin, Respiratory System and Central Nervous System
Toluene	200 ppm	C 300 ppm	50 ppm	----	Eye Irritant & Central Nervous System Depressant, Kidneys, Respiratory System
Xylenes	100 ppm	None	100 ppm	150 ppm	Eye, Nose, Throat & Skin Irritant, Central Nervous System Depressant, Blood, Kidneys, Liver, GI Tract

Methyl tert-butyl ether (MTBE)	N/A	N/A	50 PPM	N/A	Eye and throat irritation; can cause pneumonia if liquid direct contact with lungs, as a result of aspiration; central nervous system effects from aspiration include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure.
Naphthalene	10 PPM	---	10 PPM	15 PPM	Eye irritant; causes confusion and/or excitement, nausea/vomiting, abdominal pain, irritated bladder, profuse sweating, jaundice, renal shutdown, dermatitis, optical neuritis, corneal damage; Target organs = eyes, skin, blood, liver, kidneys, central nervous system

PEL : Permissible Exposure Limits
TLV : Threshold Limit Values
ACGIH : American Conference of Governmental Industrial Hygiene
TWA : (Time-Weighted Average) the average concentration of a chemical to which it is permissible to be exposed for a conventional 8-hour workday and a 40-hour workweek. CNS: Central Nervous System.
STEL : Short Term Exposure Limit (15 minutes)
V : Vapor and aerosol
C : Ceiling Exposure Limit

5. Employee Medical Qualifications and Training Requirements

All personnel	All personnel will participate in documented daily health and safety tailgate meetings to discuss site conditions, hazards, hazard controls, applicable Shell requirements and JSAs. All personnel who are not required by project activities to have HAZWOPER training must have current field safety training.
Personnel entering the exclusion zone	40-hour HAZWOPER training with a current 8-hour refresher and medical qualification Refer to SMS 024 Medical Screening and Surveillance Refer to SMS 055 Health, Safety, and Environment Training
Field Supervisor and/or Site Safety Officer	8-hour HAZWOPER Supervisor Training First Aid Training for remote sites Refer to SMS 055 Health, Safety, and Environment Training

6. Engineering and Administrative Controls

URS/AECOM will implement engineering and administrative controls to reduce the spread of contamination, isolate contaminants, shield workers, prohibit access to hazardous areas, warn of physical hazards and/or otherwise minimize the likelihood of worker injury or exposure. Specific engineering and administrative controls for each URS activity are listed in the Job Safety Analysis (Attachment C).

URS' Permit to Work System

The following list of activities may only be conducted under permit. These activities require an addendum to this HASP, and specific training and competency prior to the issuing of permits or commencement of work. Compliance of all applicable URS SMS must be adhered to and no work shall begin until those requirements are met and documented. Multiple activities which require permits may take place at one time and each must be permitted separately.

Confined Space - A Confined Space Entry permit will be completed prior to any confined space entry occurring on either property. A Confined Space Entry Permit, describing items such as the issuing authority, performing authority, entry supervisor, attendant, qualified rescue team, monitoring program, and other requirements identified in URS SMS 010, if required, is included as an attachment to this HASP. Permit will be authorized by Motiva personnel on the Motiva property (only if Motiva mandates that they authorize the permit), and URS on the Exxon property.

Excavation/Trenching - An Excavation/Trenching Permit will be utilized when performing any excavation/trenching activity on either property. All excavations and trenches deeper than 3.3 feet (1 meter) shall be considered a permitted confined space which is more stringent than the OSHA confined space definition. Permit will be authorized by Motiva personnel on the Motiva property (only if Motiva mandates that they authorize the permit), and URS on the Exxon property.

Hot Work - A Hot Work Permit will be completed prior to performing hot work activities (including when drilling within 20 feet of a dispenser island, tank or product lines). The URS SMS 020 provides general guidance on Hot Work and offers definitions and requirements. Permit will be authorized by Motiva personnel on the Motiva property, and URS on the Exxon property.

Hoisting and Rigging - URS SMS 041, which covers rigging and rigging inspections should be reviewed and incorporated as applicable.

Working at Heights - A Working at Heights permit must be completed before any work is performed where personnel have the potential of falling 6 feet or greater. URS SMS 040 – Fall Protection; URS SMS 031 – Scaffolding; URS SMS 007 – Aerial Lifts; URS SMS 028 - Ladders may be referenced for additional guidance on working at heights. Permit will be authorized by Motiva personnel on the Motiva property (only if Motiva mandates that they authorize the permit), and URS on the Exxon property.

When necessary, applicable permits will be included as an attachment to this HASP and subsequently be filed in the URS project folder. Permits may only be issued by authorized personnel who are not performing the work. Upon completion of the permitted activity or at the end of each work day, the permit must be closed out by the same person who issued it.

7. Personal Protective Equipment	
All site personnel – required at all times regardless of work activity (unless otherwise noted)	• Work clothes as appropriate • Gloves (nitrile surgical type inner, cut-resistant and/or leather) as appropriate • Hard hat • Safety toe boots with good tread, non-porous uppers, and adequate ankle support • Safety glasses - ANSI Z87 with side shields • Safety vest - ANSI Class 2 for work near roads or heavy equipment (Class 3 apparel is required for work 30 minutes prior to and after darkness or during periods of poor visibility) • Hearing protection – when voice communication becomes difficult due to noise (refer to URS SMS 026 – Noise and Hearing Conservation) • Refer to URS SMS 029 Personal Protective Equipment
All personnel working in areas where action levels are exceeded – see Section 8	• Appropriate coveralls (Tyvek or equivalent) • Outer nitrile gloves • Full-face air purifying respirator with organic vapor cartridges. To use a respirator, employees must be trained, fit tested and medically qualified. • Refer to SMS 042 Respiratory Protection Program

URS

8. Air Monitoring

Air monitoring will be conducted with a photoionization detector (PID) with a 10.6 eV lamp calibrated to isobutylene to evaluate concentrations of volatile organic compounds (VOCs). The monitoring equipment must be calibrated in accordance with the manufacturer's instructions. In addition, the results of daily instrument calibrations must be recorded in the field notes or the form included in Attachment B. Continuous monitoring is required during intrusive work. Document readings in the field notes or the form included in Attachment B. Additional monitoring may be required to enter an excavation or confined space (see the applicable SMSs). The action levels below assume that no more than 4% of the VOCs present are benzene.

Air Monitoring Action Levels

Analyzer Reading	Location	Duration	Action	Personal Protective Equipment
< 10 ppm	OBZ	-----	No action required.	Minimum Site Ensemble (hardhat, steel-toed boots, eye protection, hearing protection)
> 10 ppm	OBZ	>1 minute	Monitor OBZ; don protective clothing; establish work zones	Minimum Site Ensemble, plus: coveralls, nitrile outer gloves, nitrile inner (surgical) gloves, and a full-face air purifying respirators with organic vapor cartridges. Cartridges will be changed in accordance with manufacturer's recommendations, or at a minimum, on a daily basis.
>100 ppm	OBZ	>1 minute	Stop work; move upwind while vapors dissipate. If elevated levels remain, cover boring and cuttings, evacuate upwind and notify RHSEM	As specified by Regional SHE Manager.

(OBZ - Operator's Breathing Zone)

Note: This action level table was established based-on the assumption that the equipment accounts for the response factor automatically and there is a 1:1 response factor. If the equipment does not account for response factor automatically, the user should reset the action level via the following formula:

Revised Action Level = Stated Action Level x Response Factor.

9. Site Control and Decontamination	
Site Control	Work area barricades may be used to prevent access by unauthorized persons. Yellow caution tape, traffic cones, vehicles, and/or sawhorse-type barricades can be used for this purpose. Formal work zones (i.e., exclusion zone, contamination reduction zone, and support zone) will be implemented if the PID reading exceeds 10 ppm for more than one minute at the point of operations. No eating, drinking, or smoking is allowed in potentially contaminated areas.
Coordination with Owners or Operators	URS/AECOM must receive permission to access private property from land owners and site operators.
Personnel and PPE Decontamination	Personnel should wash hands and face after leaving the work zone and before eating. Formal decontamination procedures are required if the analyzer reading exceeds 10 ppm for more than 1 minute. Wash all reusable equipment with soap and water. Remove and containerize, and appropriately dispose of any disposable PPE in the contamination reduction zone.
Equipment Decontamination	Equipment decontamination will be performed as appropriate to limit the spread of contamination, limit worker exposure to contamination, and to meet Quality Assurance/Quality Control (QA/QC) requirements. Remove disposable PPE prior to leaving the work zone. Contain decontamination water as appropriate and comply with any applicable disposal requirements.

10. Emergency Contingency Plan

Prior to beginning work at the site, the URS field personnel will identify a site evacuation route and place of refuge as well as the best means of communication from the site (e.g., are cell phones allowed, do they work, can responders find our location, etc.). In the event of an emergency at the site, first contact the appropriate emergency services, next secure the site, and then notify the URS Project Manager. The URS Project Manager and/or Regional SHE Manager will notify the client and other appropriate agencies. In the event of an incident, follow the Incident Communication Flowchart presented below.

All *incidents* are to be reported to the URS/AECOM Project Manager and Regional SHE Manager immediately. All *injuries* are to be reported to the URS Project Manager, the URS Occupational Health Manager, and Regional SHE Manager immediately.

Medical Emergencies	URS personnel may administer first aid on a voluntary basis if they are trained to do so. Remember to follow "universal precautions" if blood or body fluids are present (i.e., assume all blood and bodily fluids are contaminated and avoid contact with these fluids). Use nitrile or latex gloves when performing first aid. Contact the Regional SHE Manager if you are exposed to another individual's blood or body fluids. For serious injuries or illnesses, transport the victim to the hospital via ambulance by calling 911. If exposure to hazardous substances is suspected, or if any symptoms of exposure are experienced, leave the contaminated area. If a dermal or ocular exposure is suspected, wash the affected area with plenty of water for a minimum of 15 minutes. If symptoms are serious in nature seek medical assistance immediately. In the event of any work-related injury or illness, contact the Regional SHE Manager Work Care, the URS Occupational Health Manager to report the incident in accordance with URS SMS 049 Injury/ Illness/ Incident Reporting and Notifications and URS SMS 065 Injury Management. Work Care's contact information is: Toll Free: 888-449-7787

<table>
<tr><td>Emergency Medical Services</td><td>Minor injuries should be treated at an occupational health clinic when possible. Significant injuries should be treated at the nearest hospital.<table><tr><td>Hospital Name & Address:
Provider: Novant Health Presbyterian Medical Center
Address: 200 Hawthorne Lane
Charlotte, NC 28204</td><td>Phone:
(704) 384-4000</td></tr><tr><td>Occupational Clinic Name & Address:
Provider: Concentra Medical Centers
Address: 4221 Tuckaseegee Rd
Charlotte, NC 28208</td><td>Phone:
(704) 394-9435</td></tr></table>Route maps and directions to the hospital and occupational clinic are provided in Attachment A.</td></tr>
<tr><td>Emergency Equipment List</td><td>Each URS work area will be equipped with the following equipment:
Cellular phone
First aid kit – provided in vehicles and drill rig support trucks
Eye wash – provided in first aid kit.
Fire extinguisher – one provided on each drill rig
Extra sets of PPE; (i.e. gloves, ear plugs) in vehicles</td></tr>
</table>

10-1. Emergency Phone Numbers		
Organization	**Name**	**Phone numbers**
Police		911
Ambulance		911
Hospital		(864) 560-6000
Fire/HAZMAT		911
Poison Control Center		(800) 332-3073
URS Occupational Health Manager	Work Care	Toll Free: (888) 449-7787 (24/7)
URS Project Manager	Michelle Friedman	919-239-7156 (office) 919-619-8470 (cell)
URS Field Supervisor/Project Coordinators	Chris Rocco Brandt Morrow	704-522-0330 (office) 704-264-5155 (cell) 704-716-0745 (office) 704-615-5278 (cell)
URS Office SHE Representative	Chris Rocco	(704) 522-0330(office) 704-264-5155 (cell)
URS Regional SHE Manager	Russ Reynolds	864-906-7309 (Cell)

ATTACHMENT A

HOSPITAL ROUTE DIRECTIONS & MAP

OCCUPATIONAL CLINIC DIRECTIONS & MAP

URS Corporation

ON THIS PAGE Provider Information, Text Provider Information, Create Letter, Map, Driving Directions

PROVIDER INFORMATION

Copy to Clipboard Back to Results

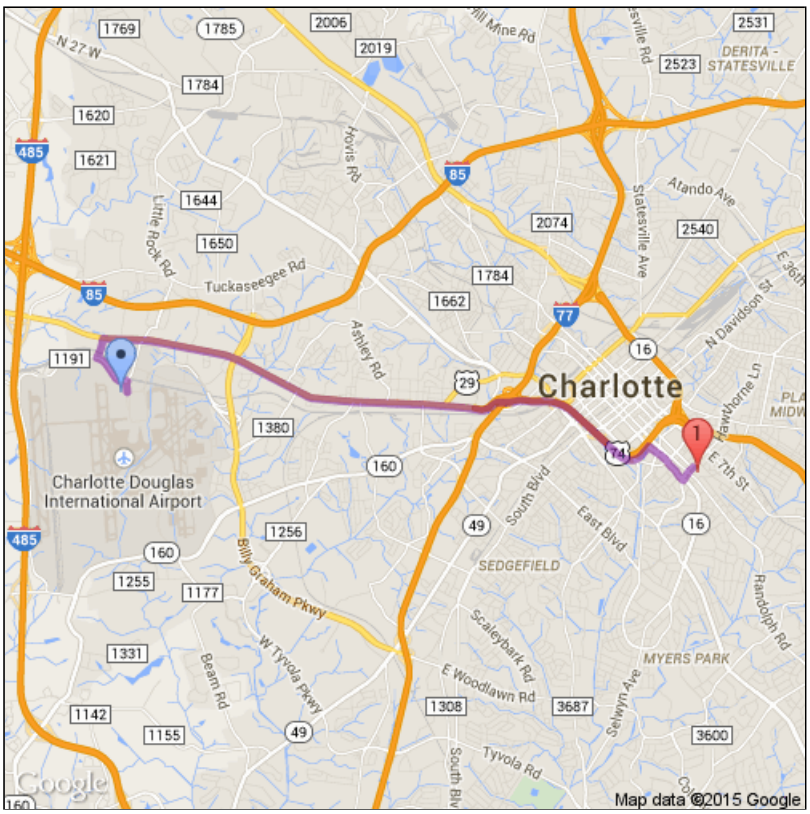
Provider	**Novant Health Presbyterian Medical Cente**
Address	200 Hawthorne Lane Charlotte, NC 28204
Specialty	Hospital: Acute Care
Phone	704-384-4000
LOB	Wc

TEXT PROVIDER INFO TO MOBILE PHONE

Type a phone number Send

CREATE LETTER

Provider Change Form Create



DRIVING DIRECTIONS

From: 4102 Rental Car Road Charlotte, NC
New Start Address

To: 200 Hawthorne Lane Charlotte, NC 28204

1.	Head **north** on **Rental Car Rd**	0.1 mi
2.	At the traffic circle, take the **1st** exit onto **Old Dowd Rd**	0.5 mi
3.	Turn **right** onto **Marshall Dr**	0.2 mi
4.	Turn **right** onto **US-74 E/Wilkinson Blvd** Continue to follow US-74 E	5.3 mi
5.	Continue onto **I-277 N/US-74 E**	1.3 mi
6.	Take exit **2A** for **North Carolina 16 S/Kenilworth Ave/Third St** toward **Fourth St**	410 ft
		0.4 mi

7. Keep **left** at the fork, follow signs for **North Carolina 16 S/Third Street/Fourth Street**
8. Turn **right** onto **E 3rd St** 0.6 mi
9. Turn **left** onto **Queens Rd** 0.1 mi
10. Continue onto **Hawthorne Ln** 440 ft

Destination will be on the right

Estimated driving time: 15minutes 8.8 mi

TEXT DRIVING DIRECTIONS TO MOBILE PHONE

Type a phone number

Send

URS Corporation

sedgwick

ON THIS PAGE Provider Information, Text Provider Information, Create Letter, Map, Driving Directions

PROVIDER INFORMATION

Copy to Clipboard Back to Results

Provider	**Concentra Medical Centers**
Address	4221 Tuckaseegee Rd Charlotte, NC 28208
Specialty	Urgent Care Clinic
National Provider Identifier	1992713689
Phone	704-395-0060, 866-944-6046, 888-977-2669, 888-997-2669
Fax	704-394-9435, 704-521-5097

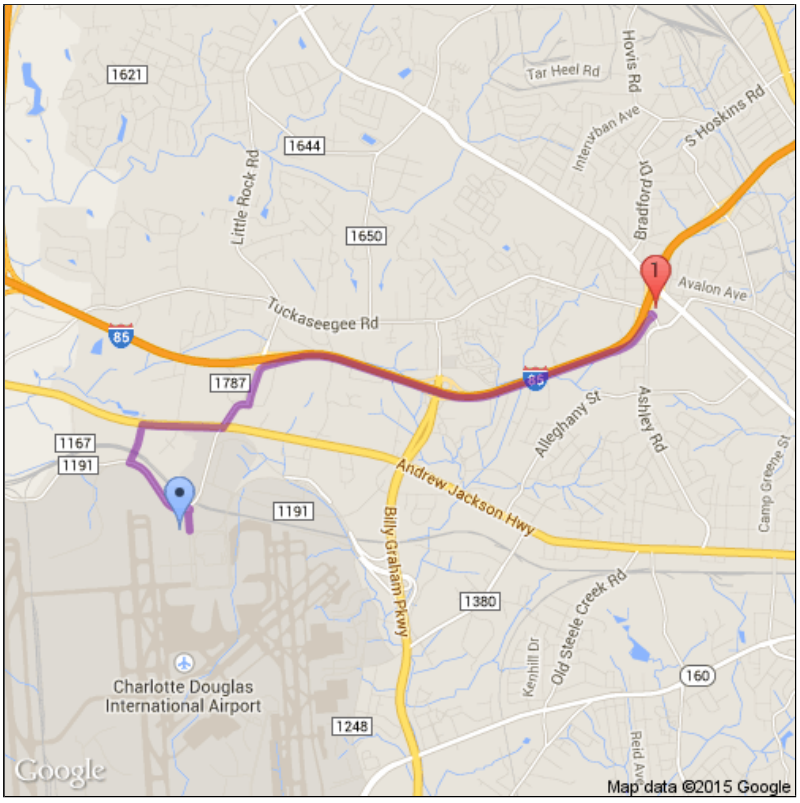
TEXT PROVIDER INFO TO MOBILE PHONE

Type a phone number

Send

CREATE LETTER

Provider Change Form Create



DRIVING DIRECTIONS

From: 4102 Rental Car Road Charlotte, NC
New Start Address

To: 4221 Tuckaseegee Rd Charlotte, NC 28208

1. Head **north** on **Rental Car Rd**	0.1 mi
2. At the traffic circle, take the **1st** exit onto **Old Dowd Rd**	0.5 mi
3. Turn **right** onto **Marshall Dr**	0.2 mi
4. Turn **right** onto **Wilkinson Blvd**	0.5 mi
5. Turn **left** onto **Little Rock Rd**	0.2 mi
6. Turn **left** to stay on **Little Rock Rd**	0.2 mi
7. Slight **right** onto the **Interstate 85 N** ramp to **Concord**	0.3 mi
8. Merge onto **I-85 N**	2.0 mi

9.	Take exit **34** for **Tuckaseegee Rd**	0.3 mi
10.	Turn **left** onto **Tuckaseegee Rd**	105 ft
	Destination will be on the right	
	Estimated driving time: 7minutes	4.5 mi

TEXT DRIVING DIRECTIONS TO MOBILE PHONE

Type a phone number Send

URS

ATTACHMENT B

FORMS

URS

DAILY TAILGATE SAFETY MEETING FORM

Job Location:	☐ Hertz ☐ Enterprise ☐ Avis ☐ National ☐ Advantage ☐ Payless ☐ Budget ☐ Dollar	Date:	
URS Site Supervisor:	☐ Chris Rocco ☐ Brandt Morrow	URS Project Manager:	Michelle Friedman

List activities to be performed today:	
Permitted Activities (specific permit to be competed):	☐ Not Applicable ☐ Confined Space Entry ☐ Excavation/Trenching ☐ Hot Work ☐ Working at Heights (greater than 6 feet) ☐ Hoisting/Rigging (any lifting with equipment, excluding drill rigs)

Muster Point:		Spill Kit Location:	
First Aid Kit Location:		Fire Extinguisher Location:	
Emergency cut-off switches:			

Has the Site Manager / Owner been notified of our activities	☐ Yes ☐ No ☐ N/A
Was the Site Manager / Owner present during pre-work site walk	☐ Yes ☐ No ☐ N/A
Is a fuel delivery scheduled for today?	☐ Yes ☐ No ☐ N/A

Does each activity have a Job Safety Analysis (JSA)?	☐ Yes ☐ No*
Does each subcontractor have JSAs for their activities?	☐ Yes ☐ No* ☐ N/A
Have JSAs been reviewed by all affected personnel on-site?	☐ Yes ☐ No*
Has a site walk been performed to identify additional hazards?	☐ Yes ☐ No*
Have any newly identified hazards been documented on the JSA?	☐ Yes ☐ No* ☐ N/A
Have all members of the work team confirmed understanding of the work, hazards, and controls/ mitigation?	☐ Yes ☐ No*
Have work areas been properly cordoned-off to protect workers, site staff, and the public?	☐ Yes ☐ No* ☐ N/A
Have equipment checks been completed, documented, and reviewed?	☐ Yes ☐ No* ☐ N/A
Do all site workers understand injury/ intervention reporting requirements including immediately notifying the URS Site Supervisor of any injury near miss, unsafe condition or hazard observation?	☐ Yes ☐ No*

** if No, then work cannot be performed until corrective action is completed and documented.*

URS

Title of JSAs reviewed today:	

All personnel are wearing (regardless of activity):	☒ Hard Hat ☒ Safety Glasses ☒ Safety Vest ☒ Steel-Toed Boots ☒ Gloves (appropriate for task) See JSA for additional task specific PPE requirements.

Other Items Discussed Today:	**Stop Work Authority & Obligation**
	* All employees will stop the job any time anyone is concerned or uncertain about safety. * All employees will stop the job if anyone identifies a hazard or additional mitigation not recorded on the JSA. * All employees will be alerted to any changes in personnel or conditions at the worksite. * All employees will stop the job and reassess a task, hazards, and mitigations, and then amend the JSA as needed.

SITE WORKERS (including URS Contractors and Subcontractors): By signing here, you are stating the following:

* You have been involved in reviewing the JSAs and understand the hazards and control measures associated with each task you are about to perform.
* You understand the permit to work requirements applicable to the work you are about to perform (if it includes permitted activities).
* You are aware that no tasks or work (that is not risk-assessed) is to be performed.
* You are aware of your authority and obligation to 'Stop Work'.

I arrived and departed fit for duty:

* You are physically and mentally fit for duty.
* You are not under the influence of any type of medication, drugs, or alcohol that could affect your ability to work safely.
* You are aware of your responsibility to immediately report any illness, injury (regardless of where or when it occurred), or fatigue issue you may have to the URS Site Supervisor.
* You signed-out uninjured unless you have otherwise informed the URS Site Supervisor.

Print Name & Company	Signature	Initials & Sign In Time	Initials & Sign Out Time
Chris Rocco; URS/AECOM		In & Fit	Out & Fit
Brandt Morrow; URS/AECOM		In & Fit	Out & Fit
Matt Stone; URS/AECOM		In & Fit	Out & Fit
Andrew Wreschnig; URS/AECOM		In & Fit	Out & Fit
Erik Riegel; URS/AECOM		In & Fit	Out & Fit
James McDorman; URS/AECOM		In & Fit	Out & Fit
Michelle Friedman; AECOM		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit
		In & Fit	Out & Fit

(Attach additional Site Worker sign-in/out sheets if needed)

SITE VISITOR / SITE REPRESENTATIVE				
Name	**Company Name**	**Arrival Time**	**Departure Time**	**Signature**

To be completed once field activities for the day have been concluded:		
Were there any Incidents, Near Misses, Potential Incidents, or Positive Interventions today?	☐ Yes ☐ No	If yes, details:
Were there any 'Stop Work' interventions?	☐ Yes ☐ No	If yes, details:
Were there any areas for improvement noted?	☐ Yes ☐ No	If yes, details:
Has the Site Manager/Owner conducted a post-work site walk and/or are they happy with the way you left the site (including the location of waste drums or equipment)?	☐ Yes ☐ No	If no, details:
At the conclusion of the day, I certify that the job site is being left in a safe condition and there were no reports of injury or first aid.	☐ Yes ☐ No	URS Site Supervisor Signature:

Air Monitoring Equipment Calibration Record			
Equipment Type	Calibration Gas (type & ppm)	Calibrated by / Date & Time	Remarks

URS

Air Monitoring Record			
Equipment Type	Reading Location	Date & Time	Reading (ppm)

URS

ATTACHMENT C

JOB SAFETY ANALYSIS

URS

JOB SAFETY ANALYSIS

<table>
<tr><th colspan="2">General Physical Hazards and Controls</th></tr>
<tr><th>Potential Hazards</th><th>Controls</th></tr>
<tr><td colspan="2">Use hazard recognition tools to identify hazards in the following categories:
Motion
Environment (also see the biological hazards section below)
Chemical (see the chemical hazards section below)
Energized Systems
Add any additional hazards and controls (e.g., engineering controls, administrative controls, PPE) and delete non applicable hazards and controls.</td></tr>
<tr><td>All hazards</td><td>What am I about to do?
Have I stepped through the task in my mind?
Do I really understand the task?
Have I done this task before?
What could go wrong?
What could move slip or fall?
Does the equipment need to be checked?
Could something spill, splash or leak?
What could be done to make it safer?
Should I get help with the task?
Do I have the right tools or equipment?
Do I need to review the JSA/Procedures?
What have I done to communicate the hazards?
Have I spoken to my team about the hazards?
Have I informed others in the area?
Does someone know where I am and what I am about to do?</td></tr>
<tr><td></td><td>Manage projects so that adequate time is allowed to complete tasks
Manage projects so that proper equipment is available
Maintain and encourage a positive safety attitude/culture
Look out for yourself and others at the site; provide feedback to each other on safety performance
Report near misses and safety observations
Employees must review this Health and Safety Plan prior to work, and a copy must be available at the work site
Reevaluate the Job Safety Analysis daily; consider changes in weather conditions, work activities, and other site conditions
Conduct a daily safety briefing or tailgate meeting
Refer to SMS 072 Behavior Based Safety</td></tr>
</table>

General Physical Hazards and Controls	
Potential Hazards	**Controls**
Heavy equipment	• Refer to SMS 046 Subcontractor Health and Safety Requirements • Discuss work activities and location of ground personnel with equipment operators prior to work • Wear high-visibility clothing • Stay away from equipment when possible • Make eye contact with the operator prior to approaching equipment • Have the operator de-energize equipment prior to approaching • Watch out for blind spots • Inspect equipment prior to work • Operators must maintain three points of contact when entering equipment • Refer to SMS 019 Heavy Equipment
Drill rig/soil probe	• Refer to SMS 046 Subcontractor Health and Safety Requirements • Stay clear of drilling operations, especially the rotating auger and cable winches • Know the location of the kill switch • Refer to SMS 056 Drilling Safety Guidelines
Underground utilities	• Call the one-call utility locator (811) at least three days prior to subsurface activities • Mark dig locations in white if possible • Use all possible clues to identify/locate utilities (asphalt patches, meters, as-build drawings, facility operators) • Hire a private utility locate company if questions regarding utility locations remain • Use hydrovac, air knife, or a hand auger to clear the first six feet (1.8 meters) if questions regarding utility locations remain • Refer to SMS 034 Utility Clearances and Isolation
Overhead utilities	• Note the location of overhead utilities prior to work • Maintain a safe distance from utilities • When heavy equipment is in use, mark the location of overhead lines with signs at ground level • Refer to SMS 034 Utility Clearances and Isolation
Excavations and/or trenching	• Excavation deeper than four feet (1.2 meters) deep must be appropriately sloped and/or shored • A competent person must inspect the excavation daily and issue an excavation/trenching permit prior to entry • Avoid entry when possible by collecting samples from equipment buckets or by using long-handled scoops • Never stand adjacent to an open excavation due to the potential for the ground to cave in below you • Some excavation may be considered confined spaces • Refer to SMS 015 Excavations
Noise	• Use hearing protection when heavy equipment is operating • Refer to SMS 026 Noise and Hearing Conservation
Aggressive individuals or potentially dangerous locations (e.g. high crime areas or deserted buildings)	• Get approval from property owners prior to access and see if the owner will accompany you • Work in teams of two or more • If you are alone maintain contact with someone at the office • Leave and/or contact help if you are threatened • Refer to SMS 084 Lone Worker
Driving/vehicle safety	• Inspect vehicles before use • Avoid driving when drowsy

General Physical Hazards and Controls	
Potential Hazards	**Controls**
	• Obey traffic rules • Use extra caution when entering roadways or backing • Completely exit roadways to park • Do not operate vehicles in unsafe conditions (e.g., on steep slopes, in deep mud) • Use a tow strap and proper procedures to remove a vehicle that is stuck in mud or snow • Do not use cell phones and avoid other distractions when operating vehicles • Secure all loads, including equipment within the cab • Wear seat belts • Leave enough time to get to your destination without hurrying • Never follow to close • Avoid backing when possible • Be aware of heavy equipment and do not park or conduct work in the blind spot of the equipment operator; remember that "blind spots" of some equipment can be very large • Verify back-up alarms are functional for all heavy equipment; for pick-ups or SUVs with obstructed rear view, a back-up alarm or use a spotter when backing up • Refer to SMS 057 Vehicle Safety Program •
Cold stress	• Stay inside when possible during extreme cold • Schedule outdoor work during mild weather • Stay dry • Dress in layers • Have a warm hat and socks available • Take breaks in heated areas • Refer to SMS 059 Cold Stress
Heat stress	• Stay inside when possible during extreme heat • Drink plenty of liquids and have plenty of water available in the field • Take breaks in a cool area as necessary • Wear a hat and use sun screen • Wear loose fitting, light colored clothing • Moisten clothing to promote cooling • Avoid excessive alcohol or caffeine the night before work • Go someplace cool if you feel ill • Seek medical attention if symptoms of heat exhaustion or heat stroke appear (e.g., dizzy, pale dry skin, confusion) • Refer to SMS 018 Heat Stress
Severe weather	• Check the radio or internet for severe weather warnings • Check road conditions with the state highway department • During high winds watch for blowing doors, gates and other objects • During lightning follow the 20/20 rule – if you hear thunder with 20 seconds of seeing lightning, take a 20 minute break • Know safe locations and/or evacuation routes in case of severe weather such as hurricanes and tornadoes
Lifting	• Healthy employees should lift no more than 50 pounds – know your personal

General Physical Hazards and Controls	
Potential Hazards	**Controls**
	limit • Get help to lift heavy objects • Bend at the knees; do not use your back • Do not twist during lifts • Minimize the movement of heavy objects • Pack items to keep their weight below 50 pounds • Stretch before lifting • Store heavy objects off the ground • Refer to SMS 069 Manual Material Handling
Sharp objects	• Wear appropriate work safety-toe boots and work gloves • Use caution when working with any hand tool • Whenever possible use safety cutting tools instead of fixed open blade knives • Periodically inspect tools and equipment to insure that they remain in good operating condition • Watch out for barbed wire and electrical fences • Refer to SMS 064 Hand Safety and SMS 016 Hand Tools and Portable Equipment
Slips, trips, and falls	• Maintain good housekeeping • When possible, avoid steep and uneven terrain • Wear sturdy boots with good tread • Keep the work area free from water, ice or debris • Literally, watch where you step – mark slip, trip, fall hazards with flagging, etc. • Take the time to find a safe route to the desired location • Do not perform any activity with a fall exposure of 6 feet (1.8 meters) (construction industry) or 4 feet (1.2 meters) (general industry) or more without using fall protection • Use a backpack to avoid carrying too many items • Refer to SMS 021 Housekeeping and SMS 040 Fall Protection
Vehicle traffic	• Implement traffic control in accordance with the Manual on Uniform Traffic Control Devices (MUTCD) if lane closures are required • Contact the responsible authority for the road to determine if a right-of-way permit is required • For shoulder work and work near roadways, use a combination of orange cones and vehicle placement to ensure the work zone is protected from motorists • Wear ANSI Class 2 high-visibility vests (Class 3 for night work or work when there is low visibility) • Expect the unexpected • Refer to SMS 032 Work Zone Traffic Control
Fire/Explosion	• Refer to SMS 014 Fire Protection and Prevention • Refer to SMS 020 Hot Work
Confined space entry	• Confined spaces have limited means for entry and exit and are not designed for occupancy • Entry to a confined space requires training, air monitoring, special equipment and rescue provisions • Simply crossing the plane of the space with any part of your body is considered an entry • Refer to SMS 010 Confined Space Entry

Chemical Hazards and Controls	
Potential Hazards	**Controls**
Potential chemical hazards	• Use nitrile gloves when handling potentially contaminated materials • Implement site control • Stay up wind from contamination • Minimize handling or contaminated materials • Contain or cover contaminated materials to minimize release of vapors • Using good personal hygiene practices; wash hands and face prior to eating or drinking) • The “buddy system” must be used in hazardous areas • Refer to provisions throughout this HASP • Refer to SMS 050 Toxic and Hazardous Substances • Refer to SMS 017 Hazardous Waste Operations
Hazardous materials	• Material Safety Data Sheets (MSDS) must be available for all chemicals brought on site (e.g., sample preservatives, decontamination solutions). Copies of the MSDS are provided in Attachment D. • Label all containers with chemical name and hazard warning • Use protective gear recommended on the MSDS • Refer to SMS 048 Hazardous Materials/Dangerous Goods Shipping • Refer to SMS 002, Hazard Communication
Silica	• Minimize dust generation using wet methods and other controls as appropriate

Biological Hazards and Controls	
Potential Hazards	**Controls**
Vectorborne disease	• Hantavirus may be present in mouse droppings or nesting materials • Histoplasmosis may be present in bird droppings • Plague may be transmitted by fleas • Do not generate dust from areas impacted by mouse or bird droppings • Eliminate locations for potential mouse and bird nests in equipment storage areas • Stay away from all animals especially if they appear to be ill or injured
Others	• Use caution when lifting objects that may provide shelter for spiders, snakes, hornets and rodents • Use repellant with DEET if mosquitoes are a problem at the site • Livestock, domestic animals, and wild animals are all biological hazards to consider • Refer to SMS 047 Biological Hazards

Job Safety Analysis

Contractor: URS	Date: October 8, 2012	JSA No: URS-CLT-00__		
Location of worksite: Shell – 300 Delmar Terminal and Former Exxon – Delmar Rd. Terminal	JSA team members: Name	Initials	Name	Initials
Description of work: De-Mobilization of Equipment and Materials from the site	Chris Rocco			
	Brandt Morrow			

Personal Protective Equipment (PPE): ☐ Goggles ☐ Face Shields ☒ Safety Glasses ☐ NOMEX/FRC ☐ Tyvek Regular Poly_____ ☐ Lifeline/Body Harness ☒ Hearing Protection ☒ Hard Hat	☒ Steel Toed Boots ☐ Supplied Air Respirator ☐ Air Purifying Respirator ☐ Welding/Pipe Clothing ☐ Welding Mask/Goggles ☒ Safety Vest or High Visibility clothing	☐Life Vest – Over water/Boat ☒Glove Type (s): nitrile or leather, depending upon task ☐Other: _____ _____

Activity List the tasks required to perform the activity in the sequence they are carried out.	***Hazard Category***	***How/Where/When Could a hazard be present? What am I about to do? What could go wrong?***	***Control Mitigations -Eliminate – Control- Protect Risk control measures List the control measures required to eliminate, control, or protect against unwanted hazard.***	***Who is responsible? Write the name of the person responsible (supervisor or above) to implement the control measure identified.***	***Stop Trigger Discuss what needs to happen (or not happen) to stop the job during this task***
Equipment loading – Delivery Truck Entering/ exiting the site	Motion	Trucks entering/leaving the site	Traffic control / spotters working with trucks as they enter/leave the site. Ensure communication between driver and spotter.	Field Staff present during these activities	Communication not established

Job Safety Analysis

Equipment Load – pneumatic trailers	Energized Source	Monitor clearance around trailer	Perform walk-around before lowering trailer to ensure obstructions are not present and area around trailer is free of trip hazards such as wood, trash & debris. Stage trailer to be off loaded so as not to create pinch points.	Field Staff present during these activities	Obstructions Present
Accessing Equipment	Motion	Walking / Stepping on the trailer	Keep eyes open for slick or uneven surfaces on or near the trailer. Make sure all boards on trailer are secure and free of nails. Use three points of contact when enter/exit equipment.	Field Staff present during these activities	Unable to step on the trailer – no climb. Three points of contact not being used.
Loading of equipment	Motion	Pinch Points/Property Damage	Use spotter to help guide operator on trailer, verify clearance of obstructions (pedestrians, equipment, fixed objects).	Field Staff present during these activities	Not enough room to work, No spotter/loss of communication
Loading of Materials	Environment	Biological- poisonous wildlife	Look for bee's, wasps, snakes that may have temporarily occupied the trailer or materials	Field Staff present during these activities	Presence of biological hazards

Job Safety Analysis

Contractor: URS	Date: October 8, 2012		JSA No: URS-CLT-00__	
Location of worksite: Shell – 300 Delmar Terminal and Former Exxon – Delmar Rd. Terminal	JSA team members: Name	Initials	Name	Initials
Description of work: Well drilling/installation; Hollow Stem Auger	Chris Rocco		Aaron Council	
	Robert Brookshire		Marc McFarlan	
	Sheldon Sisk			
	Tim Dickey			

Personal Protective Equipment (PPE):		
☐ Goggles ☐ Face Shields ☒ Safety Glasses ☐ NOMEX/FRC ☐ Tyvek Regular Poly_____ ☐ Lifeline/Body Harness ☒ Hearing Protection ☒ Hard Hat	☒ Steel Toed Boots ☐ Supplied Air Respirator ☐ Air Purifying Respirator ☐ Welding/Pipe Clothing ☐ Welding Mask/Goggles ☒ Safety Vest or High Visibility clothing	☐Life Vest – Over water/Boat ☒Glove Type (s): nitrile or leather, depending upon task ☐Other: _____ _____

Activity List the tasks required to perform the activity in the sequence they are carried out.	***Hazard Category***	***How/Where/When Could a hazard be present? What am I about to do? What could go wrong?***	***Control Mitigations -Eliminate – Control- Protect Risk control measures List the control measures required to eliminate, control, or protect against unwanted hazard.***	***Who is responsible? Write the name of the person responsible (supervisor or above) to implement the control measure identified.***	***Stop Trigger Discuss what needs to happen (or not happen) to stop the job during this task***

Job Safety Analysis

Collect depth-to-water measurements	***Motion*** ***Environment*** ***Chemical***	***Slip/trip/fall hazards across site walking to and from wells;*** ***Exposure to extreme heat/cold temperatures; dogs on offsite locations*** ***Exposure to fumes at terminal deriving from site operations or from monitoring well***	***Make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel;*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather); do not approach dogs, even though they are chained up or caged*** ***Discuss with plant operators of any operations that may be producing fumes while URS personnel are onsite; stand upwind of well when collecting measurements***	Field Staff present during these activities	***Personnel lose footing while walking on gravel, mud or asphalt;*** ***Personnel showing signs of heat/cold stress*** ***Plant operations too dangerous for URS personnel to perform work***
Purge Monitoring Wells (Well development)	***Motion Environment Chemical***	***Slip/trip/fall hazards across site walking to and from wells; fatigue from repetitive well purging of high volumes of groundwater; hands rubbing against rope*** ***Exposure to extreme heat/cold temperatures; dogs on offsite locations*** ***Exposure to fumes at terminal deriving from site operations or from monitoring well.***	***Make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel; Take frequent water and rest breaks if you are getting tired from purging; wear appropriate gloves to make purging activities more comfortable.*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather); do not approach dogs, even though they are chained up or caged*** ***Discuss with plant operators of any operations that may be producing fumes while URS personnel are onsite; stand upwind of well when purging wells***	Field Staff present during these activities	***Personnel lose footing while walking on gravel, mud or asphalt; muscle strain from purging well water*** ***Personnel showing signs of heat/cold stress*** ***Plant operations too dangerous for URS personnel to perform work***

Job Safety Analysis

Air knifing	***Motion Environment Chemical***	***Noise, flying debris*** ***Slip/trip/fall hazards across site, fatigue from repetitive motions while air knifing*** ***Exposure to extreme heat/cold temperatures*** ***Exposure to fumes upon exposure to subsurface impacts***	***Wear ear plugs and face shield for subcontractor doing the work*** ***Make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel; Take frequent water and rest breaks if feeling tired from air knifing activities*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather*** ***Wear nitrile gloves to eliminate potential exposure***	Field Staff present during these activities	***Injury due to flying debris*** ***Personnel lose footing while walking on gravel, mud or asphalt*** ***Personnel showing signs of heat/cold stress*** ***Exposure to contaminants***
Drilling Activities	***Motion Environment Chemical***	***Noise*** ***Pinch points using hand tools and drill rig equipment, rotating equipment*** ***Slip/trip/fall hazards across site*** ***Exposure to extreme heat/cold temperatures*** ***Exposure to fumes at terminal deriving from site operations, exposure to contaminated soil/groundwater***	***Wear ear plugs*** ***Use appropriate hand protection (i.e. leather gloves) while using hand tools and drill rig equipment, keep hands clear of rotating equipment*** ***Make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather*** ***Discuss with plant operators of any operations that may be producing fumes while URS personnel are onsite, wear nitrile gloves to prevent exposure to any contaminated soil/groundwater***	Field Staff present during these activities	***Noise so loud that ear plugs are not enough to filter the noise*** ***Hand injury, Personnel lose footing while walking on gravel, mud or asphalt*** ***Personnel showing signs of heat/cold stress*** ***Plant operations too dangerous for URS personnel to perform work, exposure to contaminants***

Job Safety Analysis

Setting Well	***Motion*** ***Environment*** ***Chemical***	***Pinch points using hand tools and handling well material, Slip/trip/fall hazards across site*** ***Exposure to extreme heat/cold temperatures*** ***Exposure to fumes at terminal deriving from site operations, exposure to contaminated soil/groundwater*** ***Back strain from carrying heavy bags of sand/grout/bentonite***	***Use appropriate hand protection (i.e. leather gloves) while using hand tools and drill rig equipment, make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather*** ***Discuss with plant operators of any operations that may be producing fumes while URS personnel are onsite, wear nitrile gloves to prevent exposure to any contaminated soil/groundwater*** ***Use proper lifting techniques and/or a second person.***	Field Staff present during these activities	***Hand injury, Personnel lose footing while walking on gravel, mud or asphalt*** ***Personnel showing signs of heat/cold stress*** ***Plant operations too dangerous for URS personnel to perform work, exposure to contaminants*** ***Back injury***

Job Safety Analysis

Job Safety Analysis

Contractor: URS	Date:		JSA No: URS-CLT-00__	
Location of worksite: Shell – 300 Delmar Terminal and Former Exxon – Delmar Rd. Terminal	JSA team members: Name	Initials	Name	Initials
Description of work: Well drilling/installation; Air Rotary/Hammer	Chris Rocco		Aaron Council	
	Scott Smida		Conan Fitzgerald	
	Sheldon Sisk			
	Tim Dickey			

Personal Protective Equipment (PPE): ☐ Goggles ☐ Face Shields ☒ Safety Glasses ☐ NOMEX/FRC ☐ Tyvek Regular Poly_____ ☐ Lifeline/Body Harness ☒ Hearing Protection ☒ Hard Hat	☒ Steel Toed Boots ☐ Supplied Air Respirator ☐ Air Purifying Respirator ☐ Welding/Pipe Clothing ☐ Welding Mask/Goggles ☒ Safety Vest or High Visibility clothing	☐Life Vest – Over water/Boat ☒Glove Type (s): nitrile or leather, depending upon task ☐Other: _____ _____

Activity ***List the tasks required to perform the activity in the sequence they are carried out.***	***Hazard Category***	***How/Where/When Could a hazard be present? What am I about to do? What could go wrong?***	***Control Mitigations -Eliminate – Control- Protect*** ***Risk control measures*** ***List the control measures required to eliminate, control, or protect against unwanted hazard.***	***Who is responsible? Write the name of the person responsible (supervisor or above) to implement the control measure identified.***	***Stop Trigger Discuss what needs to happen (or not happen) to stop the job during this task***

Job Safety Analysis

Collect depth-to-water measurements	***Motion*** ***Environment*** ***Chemical***	***Slip/trip/fall hazards across site walking to and from wells;*** ***Exposure to extreme heat/cold temperatures; dogs on offsite locations*** ***Exposure to fumes at terminal deriving from site operations or from monitoring well***	***Make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel;*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather); do not approach dogs, even though they are chained up or caged*** ***Discuss with plant operators of any operations that may be producing fumes while URS personnel are onsite; stand upwind of well when collecting measurements***	Field Staff present during these activities	***Personnel lose footing while walking on gravel, mud or asphalt;*** ***Personnel showing signs of heat/cold stress*** ***Plant operations too dangerous for URS personnel to perform work***
Purge Monitoring Wells (Well development)	***Motion Environment Chemical***	***Slip/trip/fall hazards across site walking to and from wells; fatigue from repetitive well purging of high volumes of groundwater; hands rubbing against rope*** ***Exposure to extreme heat/cold temperatures; dogs on offsite locations*** ***Exposure to fumes at terminal deriving from site operations or from monitoring well.***	***Make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel; Take frequent water and rest breaks if you are getting tired from purging; wear appropriate gloves to make purging activities more comfortable.*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather); do not approach dogs, even though they are chained up or caged*** ***Discuss with plant operators of any operations that may be producing fumes while URS personnel are onsite; stand upwind of well when purging wells***	Field Staff present during these activities	***Personnel lose footing while walking on gravel, mud or asphalt; muscle strain from purging well water*** ***Personnel showing signs of heat/cold stress*** ***Plant operations too dangerous for URS personnel to perform work***

Job Safety Analysis

Air knifing	***Motion Environment Chemical***	***Noise, flying debris*** ***Slip/trip/fall hazards across site, fatigue from repetitive motions while air knifing*** ***Exposure to extreme heat/cold temperatures*** ***Exposure to fumes upon exposure to subsurface impacts***	***Wear ear plugs and face shield for subcontractor doing the work*** ***Make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel; Take frequent water and rest breaks if feeling tired from air knifing activities*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather*** ***Wear nitrile gloves to eliminate potential exposure***	Field Staff present during these activities	***Injury due to flying debris*** ***Personnel lose footing while walking on gravel, mud or asphalt*** ***Personnel showing signs of heat/cold stress*** ***Exposure to contaminants***
Drilling Activities	***Motion Environment Chemical***	***Noise from drill rig, air hammer,*** ***Back strain while setting outer casing (holding pipe in place, material handling in the area,*** ***Pinch points using hand tools and drill rig equipment, rotating equipment*** ***Slip/trip/fall hazards across site*** ***Exposure to extreme heat/cold temperatures*** ***Exposure to fumes at terminal deriving from site operations, exposure to contaminated soil/groundwater***	***Wear ear plugs*** ***Use appropriate hand protection (i.e. leather gloves) while using hand tools and drill rig equipment, keep hands clear of rotating equipment*** ***Make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather*** ***Discuss with plant operators of any operations that may be producing fumes while URS personnel are onsite, wear nitrile gloves to prevent exposure to any contaminated soil/groundwater***	Field Staff present during these activities	***Noise so loud that ear plugs are not enough to filter the noise*** ***Hand injury, Personnel lose footing while walking on gravel, mud or asphalt*** ***Personnel showing signs of heat/cold stress*** ***Plant operations too dangerous for URS personnel to perform work, exposure to contaminants***

Job Safety Analysis

Setting Well	***Motion*** ***Environment*** ***Chemical***	***Pinch points using hand tools and handling well material, Slip/trip/fall hazards across site*** ***Exposure to extreme heat/cold temperatures*** ***Exposure to fumes at terminal deriving from site operations, exposure to contaminated soil/groundwater*** ***Back strain from carrying heavy bags of sand/grout/bentonite***	***Use appropriate hand protection (i.e. leather gloves) while using hand tools and drill rig equipment, make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather*** ***Discuss with plant operators of any operations that may be producing fumes while URS personnel are onsite, wear nitrile gloves to prevent exposure to any contaminated soil/groundwater*** ***Use proper lifting techniques and/or a second person.***	Field Staff present during these activities	***Hand injury, Personnel lose footing while walking on gravel, mud or asphalt*** ***Personnel showing signs of heat/cold stress*** ***Plant operations too dangerous for URS personnel to perform work, exposure to contaminants*** ***Back injury***

Job Safety Analysis

Job Safety Analysis

Contractor: URS	Date: October 8, 2012	JSA No: URS-CLT-00__		
Location of worksite: Shell – 300 Delmar Terminal and Former Exxon – Delmar Rd. Terminal	JSA team members: Name	Initials	Name	Initials
Description of work: water level measurements and groundwater monitoring	Chris Rocco			
	Brandt Morrow			

Personal Protective Equipment (PPE):		
☐ Goggles ☐ Face Shields ☒ Safety Glasses ☐ NOMEX/FRC ☐ Tyvek Regular Poly_____ ☐ Lifeline/Body Harness ☒ Hearing Protection ☒ Hard Hat	☒ Steel Toed Boots ☐ Supplied Air Respirator ☐ Air Purifying Respirator ☐ Welding/Pipe Clothing ☐ Welding Mask/Goggles ☒ Safety Vest or High Visibility clothing	☐Life Vest – Over water/Boat ☒Glove Type (s): nitrile or leather, depending upon task ☐Other: _____ _____

Activity List the tasks required to perform the activity in the sequence they are carried out.	***Hazard Category***	***How/Where/When Could a hazard be present? What am I about to do? What could go wrong?***	***Control Mitigations -Eliminate – Control- Protect*** ***Risk control measures*** ***List the control measures required to eliminate, control, or protect against unwanted hazard.***	***Who is responsible? Write the name of the person responsible (supervisor or above) to implement the control measure identified.***	***Stop Trigger Discuss what needs to happen (or not happen) to stop the job during this task***

Job Safety Analysis

Collect depth-to-water measurements	***Motion*** ***Environment*** ***Chemical***	***Slip/trip/fall hazards across site walking to and from wells;*** ***Exposure to extreme heat/cold temperatures; dogs on offsite locations*** ***Exposure to fumes at terminal deriving from site operations or from monitoring well***	***Make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel;*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather); do not approach dogs, even though they are chained up or caged*** ***Discuss with plant operators of any operations that may be producing fumes while URS personnel are onsite; stand upwind of well when collecting measurements***	Field Staff present during these activities	***Personnel lose footing while walking on gravel, mud or asphalt;*** ***Personnel showing signs of heat/cold stress*** ***Plant operations too dangerous for URS personnel to perform work***
Open/Close well vault	***Motion*** ***Environment***	***Pinch points on edge of vaults; scrapes on ground from tightening/loosening of bolts*** ***Exposure to extreme heat/cold temperatures;***	***Wear task appropriate gloves when opening vaults, preferably leather or cloth gloves to eliminate abrasions or pinches from these activities;*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather)***	Field Staff present during these activities	***Personnel experience pinch/scrape from opening or closing well vaults*** ***Personnel showing signs of heat/cold stress***
Purge Monitoring Wells	***Motion*** ***Environment*** ***Chemical***	***Slip/trip/fall hazards across site walking to and from wells; fatigue from repetitive well purging of high volumes of groundwater; hands rubbing against rope*** ***Exposure to extreme heat/cold temperatures; dogs on offsite locations*** ***Exposure to fumes at terminal deriving from site operations or from monitoring well.***	***Make Sure Steel toed boots have good soles and traction to prevent/minimize slipping while walking on asphalt, grass or gravel; Take frequent water and rest breaks if you are getting tired from purging; wear appropriate gloves to make purging activities more comfortable.*** ***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather); do not approach dogs, even though they are chained up or caged*** ***Discuss with plant operators of any operations that may be producing fumes while URS personnel are onsite; stand upwind of well when purging wells***	Field Staff present during these activities	***Personnel lose footing while walking on gravel, mud or asphalt; muscle strain from purging well water*** ***Personnel showing signs of heat/cold stress*** ***Plant operations too dangerous for URS personnel to perform work***

Job Safety Analysis

Collect Groundwater Samples	***Environment Chemical***	***Exposure to extreme heat/cold temperatures; dogs on offsite locations*** ***Exposure to fumes at terminal deriving from site operations or from monitoring well; exposure to acid preservative when pouring samples into bottles***	***Wear appropriate clothing to protect yourself from over-exposure to these conditions (layered clothing for cold weather and light clothing for hot weather); do not approach dogs, even though they are chained up or caged*** ***Discuss with plant operators of any operations that may be producing fumes while URS personnel are onsite; stand upwind of well when collecting samples; wear nitrile gloves to protect hands from exposure to acid preservative***	Field Staff present during these activities	***Personnel lose footing while walking on gravel, mud or asphalt; muscle strain from purging well water*** ***Personnel showing signs of heat/cold stress*** ***Plant operations too dangerous for URS personnel to perform work; acid on hands when filling***

Job Safety Analysis

Contractor: URS	Date: October 8, 2012		JSA No: URS-CLT-00__	
Location of worksite: Shell – 300 Delmar Terminal and Former Exxon – Delmar Rd. Terminal	JSA team members: Name	Initials	Name	Initials
Description of work: Site Walks/ Site Visits	Chris Rocco		Aaron Council	
	Robert Brookshire		Marc McFarlan	
	Sheldon Sisk			
	Tim Dickey			

Personal Protective Equipment (PPE): ☐ Goggles ☐ Face Shields ☒ Safety Glasses ☐ NOMEX/FRC ☐ Tyvek Regular Poly_____ ☐ Lifeline/Body Harness ☒ Hearing Protection ☒ Hard Hat	☒ Steel Toed Boots ☐ Supplied Air Respirator ☐ Air Purifying Respirator ☐ Welding/Pipe Clothing ☐ Welding Mask/Goggles ☒ Safety Vest or High Visibility clothing	☐Life Vest – Over water/Boat ☒Glove Type (s): nitrile or leather, depending upon task ☐Other: _____ _____

Activity ***List the tasks required to perform the activity in the sequence they are carried out.***	***Hazard Category***	***How/Where/When Could a hazard be present? What am I about to do? What could go wrong?***	***Control Mitigations -Eliminate – Control- Protect*** ***Risk control measures*** ***List the control measures required to eliminate, control, or protect against unwanted hazard.***	***Who is responsible? Write the name of the person responsible (supervisor or above) to implement the control measure identified.***	***Stop Trigger Discuss what needs to happen (or not happen) to stop the job during this task***

Job Safety Analysis

Mobilization to the site	Motion	Vehicle accident	Make sure you are well rested Take breaks as needed; stop at rest areas if necessary Be cognizant of other drivers, and practice defensive driving to anticipate excessively fast or slow moving vehicles. Be aware of cars entering/exiting the highway; be aware of cars pulled off to the side of the road or in the median.	All site personnel and visitors	Vehicle accident; fatigue from driving
Opening of gate (Exxon Property)	Motion	Pinch point; wheel running over foot on sliding gate	Use sturdy gloves to open gates; Keep feet away from rotating wheels when opening gates; have steel-toed boots on already.	All site personnel and visitors	Pinched fingers;
Site Walk	Motion Environment Energized Sources	Slips/Trips Falls when walking site Exposure to biological hazards, such as poison ivy, poisonous insects; Exposure to automated electrical controls at remediation compounds on both sites	Sturdy steel-toed boots with good tread; Wear long pants; apply insect repellent; if any personnel are allergic to poisonous insects, make sure they have epee pen on available onsite; When just performing a site walk, do not access any electrical devices unless for emergency purposes to shut down the remediation systems	All site personnel and visitors	Slips/falls Bee sting/wasp sting, etc. Electric shock.

Job Safety Analysis

URS

ATTACHMENT D

MATERIAL SAFETY DATA SHEETS

MATERIAL SAFETY DATA SHEET PACKET

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

SRM Number: 1866b
SRM Name: Common Commercial Asbestos

Date of Issue: 09 January 2007

MSDS Coordinator: Mario Cellarosi
Telephone: 301-975-6776
FAX: 301-926-4751
E-mail: SRMMSDS@nist.gov

Emergency Telephone Chem Trec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

Description: Standard Reference Material (SRM) 1866b is comprised of three commercial-grade asbestos materials that were, or are, commonly used in commerce. These asbestos materials are typical of the asbestos found in bulk samples during routine asbestos inspections of building materials. The optical properties serve as a primary calibration standard in the identification of asbestos with polarized light microscopy (PLM). A unit of SRM 1866b consists of a set of three bottles: one bottle containing chrysotile, one bottle containing asbestiform grunerite (amosite), and one bottle containing asbestiform riebeckite (crocidolite). Each bottle contains between 1 gram and 3 grams of material.

Chrysotile

Asbestiform Grunerite (Amosite)

Asbestiform Riebeckite (Crocidolite)

An MSDS is provided for each of the three asbestos materials listed above, which contain hazardous components 1 % or greater and/or carcinogens 0.1 % or greater, in compliance with OSHA 29 CFR 1910.1200.

MATERIAL SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

SRM Number: 1866b
MSDS Number: 1866b
SRM Name: Common Commercial Asbestos

Date of Issue: 09 January 2007

MSDS Coordinator: Mario Cellarosi
Telephone: 301-975-6776
FAX: 301-926-4751
E-mail: SRMMSDS@nist.gov

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

Description: Standard Reference Material (SRM) 1866b is a set of three individual commercial-grade asbestos materials: **chrysotile**, asbestiform grunerite (amosite), and asbestiform riebeckite (crocidolite). A unit of SRM 1866b consists of three bottles, each containing between 1 gram and 3 grams of individual material.

Substance: **Chrysotile**

2. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS[(a)]

Component:	**Chrysotile**
Other Designations:	**Chrysotile** (metaxite; serpentine chrysotile; asbestos; chrysotile asbestos)
CAS Number:	12001-29-5
EC Number (EINECS):	Not assigned.
SRM Nominal Concentration (% by weight or volume):	> 90
Component:	**Magnetite (as an impurity)**
Other Designation:	**Magnetite** (magnetic iron oxide; black iron oxide; magnetic iron ore; lodestone; black ferric oxide)
CAS Number:	1309-38-2
EC Number (EINECS):	215-169-8
SRM NominalConcentration (% by weight):	< 5
EC Classification:	T Carcinogen Category 1
EC Risk (R No.):	23, 45, 48
EC Safety (S No.):	45, 53

[(a)] Hazardous components 1 % or greater; carcinogens 0.1 % or greater are listed in compliance with OSHA 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

NFPA Ratings (Scale 0–4): Health = 1 Fire = 0 Reactivity = 0

Major Health Hazards: Cancer hazard (in humans)

Potential Health Effects

Inhalation: Inhalation of chrysolite asbestos dust may be irritating. Symptoms include a cough and chest pain. Chronic exposure may cause asbestosis, interstitial fibrosis of the lung tissue, which may develop within 4 years to 9 years, but onset may be typically delayed 20 years to 40 years after first exposure. Death from asbestosis may be due to respiratory or cardiac failure. Secondary lung infections may also occur. Chronic exposure of asbestos to workers may also cause pleural effusion as early as 3 years to 4 years after initial exposure. Chronic exposure of asbestos to workers also increases the chance of pleural and peritoneal mesotheliomas, bronchogenic carcinoma, lung cancer, and cancers of the gastrointestinal tract and larynx. The latent period for mesothelioma is 3 years to 40 years; for lung cancer, 15 years to 30 years.

Skin Contact: Direct contact may cause irritation. Asbestos fibers may penetrate the skin and result in "asbestos corns", due to thickening of the skin around the implanted fiber. These corns usually occur on the hands and forearms, and they disappear on removal of the fibers.

Eye Contact: Direct contact may cause irritation with redness due to mechanical action.

Ingestion: Acute exposure by cause gastrointestinal irritation. Chronic exposure of asbestos fibers may be involved in cancers of the buccal cavity and pharynx, esophagus, stomach, colon, and rectum.

Listed as a Carcinogen/ Potential Carcinogen:

Yes	No	
X		In the National Toxicology Program (NTP) Report on Carcinogens.
X		In the International Agency for Research on Cancer (IARC) Monographs.
X		By the Occupational Safety and Health Administration (OSHA).

4. First Aid Measures

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration by qualified personnel. Get immediate medical attention.

Skin Contact: Rinse affected area with copious amounts of water followed by washing with soap and water for at least 15 minutes while removing contaminated clothing. Get immediate medical attention.

Eye Contact: Flush eyes, including under the eyelids, with copious amounts of water for at least 15 minutes. Get immediate medical attention.

Ingestion: If a large amount is swallowed, get immediate medical attention.

5. Fire Fighting Measures

Fire and Explosion Hazards: Chrysotile is a negligible fire hazard.

Extinguishing Media: Regular dry chemical. Carbon dioxide. Water. Regular foam.

Fire Fighting: If material is involved in a fire, extinguish fire with a medium appropriate for the surrounding fire. Material itself does NOT burn or burns with difficulty. Keep run-off water out of sewers and water sources. Wear full protective clothing and NIOSH-approved self-contained breathing apparatus (SCBA).

Component: **Chrysotile**
Flash Point: Not applicable.
Method Used: Not applicable.

Autoignition Temp.: Not applicable.

Flammability Limits in Air
UPPER (Volume %): Not applicable.
LOWER (Volume %): Not applicable.

6. Accidental Release Measures

Occupational Release: Do NOT touch or walk through spilled material. Avoid inhalation of asbestos dust (see Section 8, "Exposure Controls and Personal Protection"). Collect small dry spills with a shovel and place material into an appropriate container for disposal. Prevent entry into waterways and sewers. Clean up residue with a HEPA filter vacuum.

Disposal: Refer to Section 13, "Disposal Considerations".

7. Handling and Storage

Storage: Store and handle in accordance with all current regulations and standards.

Safe Handling Precautions: See Section 8, "Exposure Controls and Personal Protection".

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: **Chrysotile**
OSHA (PEL): 0.1 fibers/cc TWA
ACGIH (TLV): 0.1 fibers/cc TWA
NIOSH: 0.1 fibers/cc recommended TWA (10 h)

Ventilation: Provide local exhaust ventilation system equipped with a HEPA-filter dust collection system.

Respirator: If workplace conditions warrant a respirator's use, a NIOSH/MSHA approved respirator should be used under an implemented respiratory protection program in accordance with OSHA Standard 29 CFR 1910.134 (General Industry, Use of Respirators) and 29 CFR 1910.1001 for occupational exposure to asbestos.

Eye Protection: Wear safety goggles. An eye wash station should be readily available near areas of use.

Personal Protection: Wear appropriate protective clothing and gloves to prevent skin exposure. Refer to OSHA Regulated Substances: OSHA 29 CFR 1910.1001.

9. PHYSICAL AND CHEMICAL PROPERTIES

Component: **Chrysotile**
Appearance: Fibrous solid to dust-like powder. White to grey-brown. Odorless.
Relative Molecular Mass: Not applicable.
Molecular Formula: $Mg_3(Si_2O_5)(OH)_4$
Water Solubility: Insoluble.
Solvent Solubility: Insoluble in organic solvents.

10. STABILITY AND REACTIVITY

Stability: X Stable ____ Unstable

Stable at normal temperatures and pressure.

Conditions to Avoid: Avoid generating dust. Keep out of water supplies and sewers.

Incompatible Materials: May be attacked by strong acids.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Completely decomposes at temperatures of 1 000 °C.

Hazardous Polymerization: ____ Will Occur X Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Entry: X Inhalation X Skin X Ingestion

Toxicity Data: **Chrysotile**
Human, Inhalation TCL_O: 2.8 fibers/cc (5 years)
Rat, Inhalation-Intermittent TCL_O: 8 210 $\mu g/m^3$ (6 h to 20 d)
Rat, Oral-Continuous TDL_O: 10 867 mg/kg (78 weeks)

Tumorigenic, Reproductive, Mutagenic Data: Chrysotile has been investigated as a tumorigenic and mutagenic effector.

Health Effects (Acute and Chronic): See Section 3: "Hazards Identification" for potential health effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: Not available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Asbestos; UN2212; Hazard Class 9
NOTE: This material, as packaged for SRM 1866b, is not subject to the regulations per DOT Special Provision 156 and IATA special Provision A61.

15. REGULATORY INFORMATION

U.S. Regulations: CERCLA Sections 102a/103 (40 CFR 302.4): Asbestos: 1 lbs RQ

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Asbestos.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE:	No.
CHRONIC:	Yes.
FIRE:	No.
REACTIVE:	No.
SUDDEN RELEASE:	No.

State Regulations: California Proposition 65: Asbestos is known to the state of California to cause cancer (Feb. 17, 1987).

CANADIAN Regulations
WHMIS Classification: Not determined for this material.

EUROPEAN Regulations

EC Classification (assigned):	T	Toxic. Carcinogen Category 1.
EC Risk Phrases:	R45	May cause cancer.
	R23/48	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
EC Safety Phrases:	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S53	Avoid exposure.

National Inventory Status

U.S. Inventory (TSCA):	Asbestos:	Not listed on inventory.
TSCA 12(b) Export Notification:	Asbestos:	CAS No.: 1332-21-4 Section 6

16. OTHER INFORMATION

Sources: MDL Information Systems, Inc., MSDS *Chrysotile*, 15 June 2006.

Disclaimer: Physical and chemical data contained in this MSDS are provided only for use as a guide in assessing the hazardous nature of the material. The MSDS was prepared carefully, using current references; however, NIST does not certify the data in the MSDS. The certified values for this material are given in the NIST Certificate of Analysis.

MATERIAL SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

SRM Number: 1866b
MSDS Number: 1866b
SRM Name: Common Commercial Asbestos

Date of Issue: 09 January 2007

MSDS Coordinator: Mario Cellarosi
Telephone: 301-975-6776
FAX: 301-926-4751
E-mail: SRMMSDS@nist.gov

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

Description: Standard Reference Material (SRM) 1866b is a set of three individual commercial-grade asbestos materials: chrysotile, **asbestiform grunerite (amosite)**, and asbestiform riebeckite (crocidolite). A unit of SRM 1866b consists of three bottles, each containing between 1 gram and 3 grams of individual material.

Substance: **Asbestiform Grunerite**

2. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS[(a)]

Component:	**Asbestiform Grunerite**
Other Designations:	**Asbestiform Grunerite** (grunerite; amosite; brown asbestos; amosite asbestos)
CAS Number:	12172-73-5
EC Number (EINECS):	Not assigned.
SRM Nominal Concentration (% by weight or volume):	> 90
Component:	**Magnetite (as an impurity)**
Other Designation:	**Magnetite** (magnetic iron oxide; black iron oxide; magnetic iron ore; lodestone; black ferric oxide)
CAS Number:	1309-38-2
EC Number (EINECS):	215-169-8
SRM NominalConcentration (% by weight):	< 5
Component:	**Quartz**
Other Designation:	Quartz (alpha quartz; silicon dioxide; silica; silicic anhydride; agate)
CAS Number:	14808-60-7
EC Number (EINESC):	238-878-4
SRM NominalConcentration (% by weight):	< 5
EC Classification:	T Carcinogen Category 1
EC Risk (R No.):	23, 45, 48
EC Safety (S No.):	45, 53

[(a)] Hazardous components 1 % or greater; carcinogens 0.1 % or greater are listed in compliance with OSHA 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

NFPA Ratings (Scale 0–4): Health = 1 Fire = 0 Reactivity = 0

Major Health Hazards: Cancer hazard (in humans)

Potential Health Effects

Inhalation: Inhalation of grunerite asbestos dust may be irritating. Symptoms include a cough and chest pain. Chronic exposure may cause asbestosis, interstitial fibrosis of the lung tissue, which may develop within 4 years to 9 years, but onset may be typically delayed 20 years to 40 years after first exposure. Death from asbestosis may be due to respiratory or cardiac failure. Secondary lung infections may also occur. Chronic exposure of asbestos to workers may also cause pleural effusion as early as 3 years to 4 years after initial exposure. Chronic exposure of asbestos to workers also increases the chance of pleural and peritoneal mesotheliomas, bronchogenic carcinoma, lung cancer, and cancers of the gastrointestinal tract and larynx. The latent period for mesothelioma is 3 years to 40 years; for lung cancer, 15 years to 30 years.

Skin Contact: Direct contact may cause irritation. Asbestos fibers may penetrate the skin and result in "asbestos corns", due to thickening of the skin around the implanted fiber. These corns usually occur on the hands and forearms, and they disappear on removal of the fibers.

Eye Contact: Direct contact may cause irritation with redness due to mechanical action.

Ingestion: Acute exposure by cause gastrointestinal irritation. Chronic exposure of asbestos fibers may be involved in cancers of the buccal cavity and pharynx, esophagus, stomach, colon, and rectum.

Listed as a Carcinogen/ Potential Carcinogen:

Yes	No	
X		In the National Toxicology Program (NTP) Report on Carcinogens.
X		In the International Agency for Research on Cancer (IARC) Monographs.
X		By the Occupational Safety and Health Administration (OSHA).

4. FIRST AID MEASURES

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration by qualified personnel. Get immediate medical attention.

Skin Contact: Rinse affected area with copious amounts of water followed by washing with soap and water for at least 15 minutes while removing contaminated clothing. Get medical attention, if needed.

Eye Contact: Flush eyes, including under the eyelids, with copious amounts of water for at least 15 minutes. Get immediate medical attention.

Ingestion: If a large amount is swallowed, get immediate medical attention.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Asbestiform grunerite is a negligible fire hazard.

Extinguishing Media: Regular dry chemical. Carbon dioxide. Water. Regular foam.

Fire Fighting: If material is involved in a fire, extinguish fire with a medium appropriate for the surrounding fire. Material itself does NOT burn or burns with difficulty. Keep run-off water out of sewers and water sources. Wear full protective clothing and NIOSH-approved self-contained breathing apparatus (SCBA).

Component: **Asbestiform Grunerite**
Flash Point: Not applicable.
Method Used: Not applicable.

Autoignition Temp.: Not applicable.

Flammability Limits in Air
UPPER (Volume %): Not applicable.
LOWER (Volume %): Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Occupational Release: Do NOT touch or walk through spilled material. Avoid inhalation of asbestos dust (see Section 8, "Exposure Controls and Personal Protection"). Collect small dry spills with a shovel and place material into an appropriate container for disposal. Prevent entry into waterways and sewers. Clean up residue with a HEPA filter vacuum.

Disposal: Refer to Section 13, "Disposal Considerations".

7. HANDLING AND STORAGE

Storage: Store and handle in accordance with all current regulations and standards.

Safe Handling Precautions: See Section 8, "Exposure Controls and Personal Protection".

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

Abestiform Grunerite
OSHA (PEL): 0.1 fibers/cc TWA
ACGIH (TLV): 0.1 fibers/cc TWA
NIOSH: 0.1 fibers/cc recommended TWA (10 h)

Quartz
OSHA (PEL): 0.3 mg/m^3 TWA (total dust) 30 mg/m^3/% SiO^2 + 2, based on size/aerodynamic characteristics)
OSHA (PEL): 0.1 mg/m^3 TWA (respirable dust) 10 mg/m^3/% SiO^2 + 2, based on size/aerodynamic characteristics)
ACGIH (TLV): 0.025 mg m^3 TWA (respirable dust)
NIOSH: 0.05 mg/m^3 recommended TWA (10 h) (respirable dust)

UK WEL: 0.3 mg/m^3 TWA (respirable particulate) (Chemical Hazard Alert Notice issued).

Ventilation: Provide local exhaust ventilation system equipped with a HEPA-filter dust collection system.

Respirator: If workplace conditions warrant a respirator's use, a NIOSH/MSHA approved respirator should be used under an implemented respiratory protection program in accordance with OSHA Standard 29 CFR 1910.134 (General Industry, Use of Respirators) and 29 CFR 1910.1001 for occupational exposure to asbestos.

Eye Protection: Wear safety goggles. An eye wash station should be readily available near areas of use.

Personal Protection: Wear appropriate protective clothing and gloves to prevent skin exposure. Refer to OSHA Regulated Substances: OSHA 29 CFR 1910.1001.

9. PHYSICAL AND CHEMICAL PROPERTIES

Component: **Asbestiform Grunerite**
Appearance: Fibrous solid to dust-like powder. Grey-brown to light brown. Odorless.
Relative Molecular Mass: Not applicable.
Molecular Formula: $Fe^{2+}_7(Si_8O_{22})(OH)_2$
Water Solubility: Insoluble

10. STABILITY AND REACTIVITY

Stability: X Stable _____ Unstable

Stable at normal temperatures and pressure.

Conditions to Avoid: Avoid generating dust. Keep out of water supplies and sewers.

Incompatible Materials: May be attacked by strong acids.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Completely decomposes at temperatures of 1 000 °C.

Hazardous Polymerization: ____ Will Occur X Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Entry: X Inhalation X Skin X Ingestion

Toxicity Data: **Asbestiform Grunerite**
Rat, Intrapleural TD_{LO}: 150 mg/kg

Tumorigenic, Reproductive, Mutagenic Data: Asbestiform grunerite has been investigated as a tumorigenic and mutagenic effector.

Health Effects (Acute and Chronic): See Section 3: "Hazards Identification" for potential health effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: Not available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: **U.S. DOT and IATA:** Asbestos; UN2212; Hazard Class 9
NOTE: This material, as packaged for SRM 1866b, is not subject to the regulations per DOT Special Provision 156 and IATA special Provision A61.

15. REGULATORY INFORMATION

U.S. Regulations: CERCLA Sections 102a/103 (40 CFR 302.4): Asbestos: 1 lbs RQ.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Asbestos.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE:	No.
CHRONIC:	Yes.
FIRE:	No.
REACTIVE:	No.
SUDDEN RELEASE:	No.

State Regulations: California Proposition 65: Asbestos is known to the state of California to cause cancer (Feb. 27, 1987).

CANADIAN Regulations
WHMIS Classification: Not determined for this material.

EUROPEAN Regulations

EC Classification (assigned):	T	Toxic. Carcinogen Category 1
EC Risk Phrases:	R45	May cause cancer.
	R23/48	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
EC Safety Phrases:	S45	In case of accident of if you feel unwell, seek medical advice immediately (show the label where possible).
	S53	Avoid exposure.

National Inventory Status

U.S. Inventory (TSCA):	Asbestos:	Not listed on inventory.
TSCA 12(b) Export Notification:	Asbestos:	CAS No.: 1332-21-4 Section 6

16. OTHER INFORMATION

Sources: MDL Information Systems, Inc., MSDS *Amosite*, 16 June 2005.

Disclaimer: Physical and chemical data contained in this MSDS are provided only for use as a guide in assessing the hazardous nature of the material. The MSDS was prepared carefully, using current references; however, NIST does not certify the data in the MSDS. The certified values for this material are given in the NIST Certificate of Analysis.

MATERIAL SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

SRM Number: 1866b
MSDS Number: 1866b
SRM Name: Common Commercial Asbestos

Date of Issue: 09 January 2007

MSDS Coordinator: Mario Cellarosi
Telephone: 301-975-6776
FAX: 301-926-4751
E-mail: SRMMSDS@nist.gov

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

Description: Standard Reference Material (SRM) 1866b is a set of three individual commercial-grade asbestos materials: chrysotile, asbestiform grunerite (amosite), and **asbestiform riebeckite (crocidolite)**. A unit of SRM 1866b consists of three bottles, each containing between 1 gram and 3 grams of individual material.

Substance: **Asbestiform Riebeckite**

2. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS[(a)]

Component: **Asbestiform Riebeckite**
Other Designations: **Asbestiform Riebeckite** (blue asbestos; crocidolite; asbestos; crocidolite asbestos)
CAS Number: 12001-28-4
EC Number (EINECS): Not assigned.
SRM Nominal Concentration (% by weight or volume): > 90

Component: **Magnetite (as an impurity)**
Other Designation: **Magnetite** (magnetic iron oxide; black iron oxide; magnetic iron ore; lodestone; black ferric oxide)
CAS Number: 1309-38-2
EC Number (EINECS): 215-169-8
SRM NominalConcentration (% by weight): < 5

EC Classification: T
Carcinogen Category 1
EC Risk (R No.): 23, 45, 48
EC Safety (S No.): 45, 53

[(a)] Hazardous components 1 % or greater; carcinogens 0.1 % or greater are listed in compliance with OSHA 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

NFPA Ratings (Scale 0–4): Health = 1 Fire = 0 Reactivity = 0

Major Health Hazards: Cancer hazard (in humans)

Potential Health Effects
Inhalation: Inhalation of riebeckite asbestos dust may be irritating. Symptoms include a cough and chest pain. Chronic exposure may cause asbestosis, interstitial fibrosis of the lung tissue, which may develop within 4 years to 9 years, but onset may be typically delayed 20 years to 40 years after first exposure. Death from asbestosis may be due to respiratory or cardiac failure. Secondary lung infections may also occur. Chronic exposure of asbestos to workers may also cause pleural effusion as early as 3 years to 4 years after initial exposure. Chronic exposure of asbestos to workers also increases the chance of pleural and peritoneal mesotheliomas, bronchogenic carcinoma, lung cancer, and cancers of the gastrointestinal tract and larynx. The latent period for mesothelioma is 3 years to 40 years; for lung cancer, 15 years to 30 years.

Skin Contact: Direct contact may cause irritation. Asbestos fibers may penetrate the skin and result in "asbestos corns", due to thickening of the skin around the implanted fiber. These corns usually occur on the hands and forearms, and they disappear on removal of the fibers.

Eye Contact: Direct contact may cause irritation with redness due to mechanical action.

Ingestion: Acute exposure by cause gastrointestinal irritation. Chronic exposure of asbestos fibers may be involved in cancers of the buccal cavity and pharynx, esophagus, stomach, colon, and rectum.

Listed as a Carcinogen/ Potential Carcinogen:

Yes	No	
X		In the National Toxicology Program (NTP) Report on Carcinogens.
X		In the International Agency for Research on Cancer (IARC) Monographs.
X		By the Occupational Safety and Health Administration (OSHA).

4. First Aid Measures

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration by qualified personnel. Get immediate medical attention.

Skin Contact: Rinse affected area with copious amounts of water followed by washing with soap and water for at least 15 minutes while removing contaminated clothing. Get medical attention, if needed.

Eye Contact: Flush eyes, including under the eyelids, with copious amounts of water for at least 15 minutes. Get immediate medical attention.

Ingestion: Get immediate medical attention. If vomiting occurs, keep head lower than hips to prevent aspiration. Give artificial respiration, if not breathing, by qualified personnel.

5. Fire Fighting Measures

Fire and Explosion Hazards: Asbestiform Riebeckite

Extinguishing Media: Regular dry chemical. Carbon dioxide. Water. Regular foam.

Fire Fighting: If material is involved in a fire, extinguish fire with a medium appropriate for the surrounding fire. Material itself does NOT burn or burns with difficulty. Keep run-off water out of sewers and water sources. Wear full protective clothing and NIOSH-approved self-contained breathing apparatus (SCBA).

Component: **Asbestiform Riebeckite**
Flash Point: Not applicable.
Method Used: Not applicable.

Autoignition Temp.: Not applicable.

Flammability Limits in Air
UPPER (Volume %): Not applicable.
LOWER (Volume %): Not applicable.

6. Accidental Release Measures

Occupational Release: Do NOT touch or walk through spilled material. Avoid inhalation of asbestos dust (see Section 8, "Exposure Controls and Personal Protection"). Collect small dry spills with a shovel and place material into an appropriate container for disposal. Prevent entry into waterways and sewers. Clean up residue with a HEPA filter vacuum.

Disposal: Refer to Section 13, "Disposal Considerations".

7. HANDLING AND STORAGE

Storage: Store and handle in accordance with all current regulations and standards. Store in a cool, dry place.

Safe Handling Precautions: See Section 8, "Exposure Controls and Personal Protection".

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: **Asbestiform Riebeckite**
OSHA (PEL): 0.1 fibers/cc TWA
ACGIH (TLV): 0.1 fibers/cc TWA
NIOSH: 0.1 fibers/cc recommended TWA (10 h)

Ventilation: Provide local exhaust ventilation system equipped with HEPA-filter dust collection system.

Respirator: If workplace conditions warrant a respirator's use, a NIOSH/MSHA approved respirator should be used under an implemented respiratory protection program in accordance with OSHA Standard 29 CFR 1910.134 (General Industry, Use of Respirators) and 29 CFR 1910.1001 for occupational exposure to asbestos.

Eye Protection: Wear safety goggles. An eye wash station should be readily available near areas of use.

Personal Protection: Wear appropriate protective clothing and gloves to prevent skin exposure. Refer to OSHA Regulated Substances: OSHA 29 CFR 1910.1001.

9. PHYSICAL AND CHEMICAL PROPERTIES

Component: **Asbestiform Riebeckite**
Appearance: Fibrous solid to dust-like powder. Blue to purple color. Odorless.
Molecular Formula: $Na_2(Fe^{2+}{}_3Fe^{3+}{}_2)(Si_8O_{22})(OH)_2$
Water Solubility: Insoluble.

10. STABILITY AND REACTIVITY

Stability: X Stable ____ Unstable

Stable at normal temperatures and pressure.

Conditions to Avoid: Avoid generating dust. Keep out of water supplies and sewers.

Incompatible Materials: May be attacked by strong acids.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Completely decomposes at temperatures of 1 000 °C.

Hazardous Polymerization: ____ Will Occur X Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Entry: X Inhalation X Skin X Ingestion

Toxicity Data: **Asbestiform Riebeckite**
Rat, Intraperitoneal LD_{LO}: 300 mg/kg
Rat, Inhalation-Intermittent TC_{LO}: 7 200 μg/m^3 (6 h – 20 days)
Rat, Inhalation-Intermittent TC_{LO}: 13 600 μg/m^3 (6 h – 5 days)

Tumorigenic, Reproductive, Mutagenic Data: Riebeckite asbestos has been investigated as a tumorigenic and mutagenic effector.

Health Effects (Acute and Chronic): See Section 3: "Hazards Identification" for potential health effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: Not available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: **U.S. DOT and IATA:** Asbestos; UN2212; Hazard Class 9
NOTE: This material, as packaged for SRM 1866b, is not subject to the regulations per DOT Special Provision 156 and IATA special Provision A61.

15. REGULATORY INFORMATION

U.S. Regulations: CERCLA Sections 102a/103 (40 CFR 302.4): Asbestos: 1 lbs RQ.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Asbestos.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE:	No.
CHRONIC:	Yes.
FIRE:	No.
REACTIVE:	No.
SUDDEN RELEASE:	No.

State Regulations: California Proposition 65: Asbestos is known to the state of California to cause cancer (Feb. 27, 1987)

CANADIAN Regulations
WHMIS Classification: Not determined.

EUROPEAN Regulations

EC Classification (assigned):	T	Toxicity. Carcinogen Category 1.
EC Risk Phrases:	R45	May cause cancer.
	R23/48	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
EC Safety Phrases:	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S53	Avoid exposure.

National Inventory Status

U.S. Inventory (TSCA):	Asbestos:	Not listed on inventory.

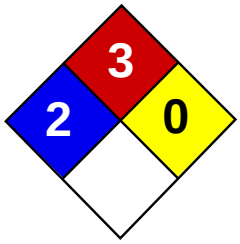
TSCA 12(b)

Export Notification:	Asbestos:	CAS No. 1332-21-4 Section 6

16. OTHER INFORMATION

Sources: MDL Information Systems, Inc., MSDS *Crocidolite*, 14 September 2006.

Disclaimer: Physical and chemical data contained in this MSDS are provided only for use as a guide in assessing the hazardous nature of the material. The MSDS was prepared carefully, using current references; however, NIST does not certify the data in the MSDS. The certified values for this material are given in the NIST Certificate of Analysis.



Material Safety Data Sheet
Benzene MSDS

Section 1: Chemical Product and Company Identification

Product Name: Benzene

Catalog Codes: SLB1564, SLB3055, SLB2881

CAS#: 71-43-2

RTECS: CY1400000

TSCA: TSCA 8(b) inventory: Benzene

CI#: Not available.

Synonym: Benzol; Benzine

Chemical Name: Benzene

Chemical Formula: C6-H6

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Benzene	71-43-2	100

Toxicological Data on Ingredients: Benzene: ORAL (LD50): Acute: 930 mg/kg [Rat]. 4700 mg/kg [Mouse]. DERMAL (LD50): Acute: >9400 mg/kg [Rabbit]. VAPOR (LC50): Acute: 10000 ppm 7 hours [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of eye contact (irritant), of inhalation. Hazardous in case of skin contact (irritant, permeator), of ingestion. Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC. MUTAGENIC EFFECTS: Classified POSSIBLE for human. Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [POSSIBLE]. The substance is toxic to blood, bone marrow, central nervous system (CNS). The substance may be toxic to liver, Urinary System. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention immediately.

Skin Contact:
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 497.78°C (928°F)

Flash Points: CLOSED CUP: -11.1°C (12°F). (Setaflash)

Flammable Limits: LOWER: 1.2% UPPER: 7.8%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances:
Highly flammable in presence of open flames and sparks, of heat. Slightly flammable to flammable in presence of oxidizing materials. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Explosive in presence of oxidizing materials, of acids.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards:
Extremely flammable liquid and vapor. Vapor may cause flash fire. Reacts on contact with iodine heptafluoride gas. Dioxygenyl tetrafluoroborate is as very powferful oxidant. The addition of a small particle to small samples of benzene, at ambient temperature, causes ignition. Contact with sodium peroxide with benzene causes ignition. Benzene ignites in contact with powdered chromic anhydride. Virgorous or incandescent reaction with hydrogen + Raney nickel (above 210 C) and bromine trifluoride.

Special Remarks on Explosion Hazards:
Benzene vapors + chlorine and light causes explosion. Reacts explosively with bromine pentafluoride, chlorine, chlorine trifluoride, diborane, nitric acid, nitryl perchlorate, liquid oxygen, ozone, silver perchlorate. Benzene + pentafluoride and methoxide (from arsenic pentafluoride and potassium methoxide) in trichlorotrifluoroethane causes explosion. Interaction

of nitryl perchlorate with benzene gave a slight explosion and flash. The solution of permanganic acid (or its explosive anhydride, dimaganese heptoxide) produced by interaction of permanganates and sulfuric acid will explode on contact with benzene. Peroxodisulfuric acid is a very powferful oxidant. Uncontrolled contact with benzene may cause explosion. Mixtures of peroxomonsulfuric acid with benzene explodes.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up.. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.

Storage:
Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.5 STEL: 2.5 (ppm) from ACGIH (TLV) [United States] TWA: 1.6 STEL: 8 (mg/m3) from ACGIH (TLV) [United States] TWA: 0.1 STEL: 1 from NIOSH TWA: 1 STEL: 5 (ppm) from OSHA (PEL) [United States] TWA: 10 (ppm) from OSHA (PEL) [United States] TWA: 3 (ppm) [United Kingdom (UK)] TWA: 1.6 (mg/m3) [United Kingdom (UK)] TWA: 1 (ppm) [Canada] TWA: 3.2 (mg/m3) [Canada] TWA: 0.5 (ppm) [Canada]Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor:
Aromatic. Gasoline-like, rather pleasant. (Strong.)

Taste: Not available.

Molecular Weight: 78.11 g/mole

Color: Clear Colorless. Colorless to light yellow.

pH (1% soln/water): Not available.

Boiling Point: 80.1 (176.2°F)

Melting Point: 5.5°C (41.9°F)

Critical Temperature: 288.9°C (552°F)

Specific Gravity: 0.8787 @ 15 C (Water = 1)

Vapor Pressure: 10 kPa (@ 20°C)

Vapor Density: 2.8 (Air = 1)

Volatility: Not available.

Odor Threshold: 4.68 ppm

Water/Oil Dist. Coeff.: The product is more soluble in oil; log(oil/water) = 2.1

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, diethyl ether, acetone.

Solubility:
Miscible in alcohol, chloroform, carbon disulfide oils, carbon tetrachloride, glacial acetic acid, diethyl ether, acetone. Very slightly soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Heat, ignition sources, incompatibles.

Incompatibility with various substances: Highly reactive with oxidizing agents, acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Benzene vapors + chlorine and light causes explosion. Reacts explosively with bromine pentafluoride, chlorine, chlorine trifluoride, diborane, nitric acid, nitryl perchlorate, liquid oxygen, ozone, silver perchlorate. Benzene + pentafluoride and methoxide (from arsenic pentafluoride and potassium methoxide) in trichlorotrifluoroethane causes explosion. Interaction of nitryl perchlorate with benzene gave a slight explosion and flash. The solution of permanganic acid (or its explosive anhydride, dimaganese heptoxide) produced by interaction of permanganates and sulfuric acid will explode on contact with benzene. Peroxodisulfuric acid is a very powferful oxidant. Uncontrolled contact with benzene may cause explosion. Mixtures of peroxomonsulfuric acid with benzene explodes.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 930 mg/kg [Rat]. Acute dermal toxicity (LD50): >9400 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 10000 7 hours [Rat].

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC. MUTAGENIC EFFECTS: Classified POSSIBLE for human. Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female [POSSIBLE]. Causes damage to the following organs: blood, bone marrow, central nervous system (CNS). May cause damage to the following organs: liver, Urinary System.

Other Toxic Effects on Humans:
Very hazardous in case of inhalation. Hazardous in case of skin contact (irritant, permeator), of ingestion.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:
May cause adverse reproductive effects (female fertility, Embryotoxic and/or foetotoxic in animal) and birth defects. May affect genetic material (mutagenic). May cause cancer (tumorigenic, leukemia)) Human: passes the placental barrier, detected in maternal milk.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Causes skin irritation. It can be absorbed through intact skin and affect the liver, blood, metabolism,and urinary system. Eyes: Causes eye irritation. Inhalation: Causes respiratory tract and mucous membrane irritation. Can be absorbed through the lungs. May affect behavior/Central and Peripheral nervous systems (somnolence, muscle weakness, general anesthetic, and other symptoms similar to ingestion), gastrointestinal tract (nausea), blood metabolism, urinary system. Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation including vomiting. May affect behavior/Central and Peripheral nervous systems (convulsions, seizures, tremor, irritability, initial CNS stimulation followed by depression, loss of coordination, dizziness, headache, weakness, pallor, flushing), respiration (breathlessness and chest constriction), cardiovascular system, (shallow/rapid pulse), and blood.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: CLASS 3: Flammable liquid.

Identification: : Benzene UNNA: 1114 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Benzene California prop. 65 (no significant risk level): Benzene: 0.007 mg/day (value) California prop. 65: This product contains the following ingredients

for which the State of California has found to cause cancer which would require a warning under the statute: Benzene Connecticut carcinogen reporting list.: Benzene Connecticut hazardous material survey.: Benzene Illinois toxic substances disclosure to employee act: Benzene Illinois chemical safety act: Benzene New York release reporting list: Benzene Rhode Island RTK hazardous substances: Benzene Pennsylvania RTK: Benzene Minnesota: Benzene Michigan critical material: Benzene Massachusetts RTK: Benzene Massachusetts spill list: Benzene New Jersey: Benzene New Jersey spill list: Benzene Louisiana spill reporting: Benzene California Director's list of Hazardous Substances: Benzene TSCA 8(b) inventory: Benzene SARA 313 toxic chemical notification and release reporting: Benzene CERCLA: Hazardous substances.: Benzene: 10 lbs. (4.536 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R11- Highly flammable. R22- Harmful if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes. R45- May cause cancer. R62- Possible risk of impaired fertility. S2- Keep out of the reach of children. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39- Wear eye/face protection. S46- If swallowed, seek medical advice immediately and show this container or label. S53- Avoid exposure - obtain special instructions before use.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:35 PM

Last Updated: 05/21/2013 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.

URS

ATTACHMENT E

SAFETY MANAGEMENT STANDARDS (SMS)

The following URS Safety Management Standards (SMS) generally apply to all field projects. Review the requirements of each SMS and determine appropriate steps to ensure project compliance with the requirements.

Determine the applicability of these SMS to your project	Yes	See SMS #	Determine the applicability of these SMS to your project	Yes	See SMS #
Emergency Preparedness Plan	**Yes**	003	Sanitation	**Yes**	030
Housekeeping	**Yes**	021	Regulatory Inspections	**Yes**	001
Vehicle Safety	**Yes**	057	Health, Safety, and Environment Training	**Yes**	055
New Employee HSE Orientation	**Yes**	025	Incident Reporting and Notifications	**Yes**	049
Significant Incident Investigation	**Yes**	066	Injury and Claims Management	**Yes**	065
Behavior Based Safety	**Yes**	072	Managing HSE Related Risks	**Yes**	086
Management of Change	**Yes**	098			

The following URS SMS only apply when specific activities are conducted by URS and URS subcontractor personnel. If you answer "Yes" to any of the questions below, review the SMS indicated and determine the appropriate steps necessary to ensure project compliance with the requirements.

Will project activities involve any of the following?	No	Yes	See SMS #	Will project activities involve any of the following?	No	Yes	See SMS #
Abrasive blasting or exposure to abrasive blasting media or waste?	☒	☐	006	Excavations or exposure to excavation hazards?	☐	☒	013
Potential exposure to ticks, snakes, poisonous plants, and other biological hazards?	☐	☒	047	Flammable or combustible materials used or stored which could constitute a fire hazard?	☐	☒	014,015
Use of aerial lifts?	☐	☒	007	Use of portable, gas powered, electric, and/or powder actuated hand tools?	☐	☒	016
Potential exposure to air contaminants in hazardous concentrations?	☐	☒	043, 042, 050	Hazardous materials shipping?	☐	☒	048
Asbestos surveys or abatement oversight?	☐	☒	008	Hazardous substances – chemical or health hazards?	☐	☒	002
Potential exposure to Bloodborne Pathogens (i.e. blood or other bodily fluids)?	☒	☐	051	Hazardous waste activities (investigative or remedial)?	☐	☒	017
Work over or near water?	☐	☒	027	Heat Stress potential to employees working in: • Hot environments; or • Impermeable Chemical Protective Clothing?	☐	☒	018
California job activities?	☒	☐	005	Heavy equipment in use at this project site?	☐	☒	019

Will project activities involve any of the following?	No	Yes	See SMS #	Will project activities involve any of the following?	No	Yes	See SMS #
Corrosive materials used or handled?	☐	☒	009	Hot Work (welding, cutting, grinding)?	☐	☒	020
Confined space entries?	☒	☐	010	Industrial site access of any kind?	☐	☒	004
Cranes or hoists?	☐	☒	038,041	Lead exposures (lead paint removal, lead in dust, etc)?	☒	☐	022
Demolition activities of any type of structures?	☒	☐	011	International travel?	☒	☐	036
Drilling activities?	☐	☒	056	Use of Manbasket (Crane Suspended Personnel Platforms) for working at heights?	☒	☐	038, 041
Use of small watercraft (e.g., boats, canoes)?	☒	☐	053	Work on or near streets and/or roadways?	☐	☒	032
Exposure to chemical/physical/biological agents and/or activities that require Medical Surveillance? Examples would include exposures to; Noise, Asbestos, Lead, Hazardous Waste, High Altitudes, Carcinogens, Respirator Use.	☒	☐	024	Exposure to uncontrolled energy sources including electrical, fluid, pneumatic, fuel, steam, gravity, and hazardous material?	☐	☒	023
Noise exposures?	☐	☒	026	Potential exposure to subsurface and/or overhead utilities?	☐	☒	034
Ladder use?	☐	☒	028	Potential exposure to Unexploded Ordnance/Chemical Warfare agents?	☒	☐	039
Exposure to eye, head, hand, foot, or other hazards that require the use of personal protective equipment?	☐	☒	029	Underground Storage Tank investigation, removal, etc.?	☒	☐	033
Use of portable gauges (e.g., nuclear-density gauges) containing sealed radioactive source materials?	☒	☐	044	Work with live electrical systems?	☐	☒	012
Respiratory protection use – required and/or voluntary?	☒	☐	042	Work at altitudes greater than 7,000 feet (~ 2,100 meters)?	☒	☐	035
Scaffolding?	☒	☐	031	Working at heights of greater than 4 feet (1.22 meters) or 6 feet (1.83 meters) for construction/demolition?	☐	☒	040
Manual lifting and/or material handling?	☐	☒	069	Use of computer workstations for data entry, CADD, word processing, etc.?	☐	☒	054
Work on or near railroad transportation systems?	☒	☐	063	Exposure to recognized hand hazards?	☐	☒	064

Will project activities involve any of the following?	No	Yes	See SMS #	Will project activities involve any of the following?	No	Yes	See SMS #
Work at a client site requiring compliance with the OSHA Process Safety Management Standard?	☒	☐	058	Are employees or contractors required to operate Powered Industrial Vehicles (i.e. forklift trucks)?	☒	☐	070
Subcontractors to perform high risk activities (including drilling and excavation) with their own personnel and/or equipment?	☐	☒	046	Potential exposure to ionizing radiation?	☒	☐	052
Potential personnel exposure to temperatures below 32^{o}F?	☐	☒	059	Down-hole geologic logging operations associated with geotechnical explorations or caisson inspections?	☒	☐	077
URS personnel newly hired or transferred from another position?	☐	☒	078	Potential inhalation of chromium VI (hexavalent chromium)?	☒	☐	083
Diving activities?	☒	☐	085	Working alone in an area where they cannot be seen/heard by another person?	☐	☒	084
Work at a site regulated by the Mine Safety Health Administration (MSHA)?	☒	☐	037	Hoists, elevators or conveyors being used?	☒	☐	045
Coordinate building material storage on-site?	☒	☐	062	Tunnels, shafts and caissons?	☒	☐	082
Operating and testing compressed air systems?	☐	☒	087	Signs, signals or barricades will be used onsite?	☐	☒	088
Temporary floors being created?	☒	☐	089	Project security will be required?	☒	☐	090
Concrete will be poured or handled?	☐	☒	091	Installation of cofferdams being performed?	☒	☐	092
Steel erection activities being performed?	☒	☐	093	Use or handling of explosive or blasting agents?	☒	☐	094
Work on or transfer to/from marine transportation (e.g. barge, vessel)?	☒	☐	095	Mining operations are conducted or controlled by URS?	☒	☐	096
Working conditions or schedule (more than 12 hours/day) may increase worker fatigue?	☐	☒	060				

Appendix B.
Standard Operating Procedures

Region 4
U.S. Environmental Protection Agency
Science and Ecosystem Support Division
Athens, Georgia

OPERATING PROCEDURE

Title: **Field pH Measurement**

Effective Date: January 29, 2013	**Number:** SESDPROC-100-R3

Author

Name: Timothy Simpson
Title: Environmental Scientist

Signature: Timothy Simpson Date: 01/23/2013

Approvals

Name: Danny France
Title: Chief, Enforcement and Investigations Branch

Signature: Danny France Date: 1/23/13

Name: John Deatrick
Title: Chief, Ecological Assessment Branch

Signature: John Deatrick Date: 1/23/13

Name: Bobby Lewis
Title: Field Quality Manager, Science and Ecosystem Support Division

Signature: Bobby Lewis Date: 1/23/13

Revision History

This table shows changes to this controlled document over time. The most recent version is presented in the top row of the table. Previous versions of the document are maintained by the SESD Document Control Coordinator.

History	Effective Date
SESDPROC-100-R3, *Field pH Measurement*, replaces SESDPROC-100-R2 **General:** Corrected any typographical, grammatical and/or editorial errors. **Cover Page:** The Author was changed from Ron Phelps to Timothy Simpson. The EIB Branch Chief was changed from Antonio Quinones to Danny France. The EAB Branch Chief was changed from Bill Cosgrove to John Deatrick. The Field Quality Manager was changed from Laura Ackerman to Bobby Lewis. **Section 1.2:** Added the following statement: Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use. **Section 1.3, last sentence:** Added "and for maintaining records of review conducted prior to its issuance." **Section 1.4:** Added reference to the SHEMP Manual. **Section 1.5.1:** Updated the SHEMP Manual reference to reflect that the most recent version of the Manual will be used. **Section 2:** In the first paragraph, replaced "and" in the second sentence with "or". **Section 3.2:** Replaced the first paragraph with the following language for clarification purposes: "Many brands of instruments are commercially available for the measurement of pH incorporating a wide variety of technologies. The manufacturer's instruction manual should be consulted for specific procedures regarding their calibration, maintenance and use. Calibration of any measurement instrument must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate. At a minimum, a two-point calibration should be conducted to ensure the accuracy of the meter. The following are basic guidelines for calibration/verification and are provided as an example: In Item #4, the first sentence, replaced "original buffer" to "appropriate buffer".	January 29, 2013

Item #5 was replaced with the following: "Once the meter has been properly calibrated and verified (steps 1-4 above), it is ready for use. Rinse the probe with de-ionized water and store it according to manufacturer's recommendations. Certain instruments may require being left on until all sample measurements are performed and the results are recorded. When collecting measurements from grab samples, certain instrument manufacturers recommend that an intermediate check(s) be performed by periodically checking the meter against a known calibration buffers if used for extended periods (> 4 hrs). **Section 3.4:** Revised the language to clarify procedures associated with operational checks. Item # 2 was converted to paragraphs 2.	
SESDPROC-100-R2, *Field pH Measurement*, replaces SESDPROC-100-R1 **Cover Page:** Author was changed from Marty Allen to Ron Phelps. **Revision History** Changed Field Quality Manager to Document Control Coordinator. **Section 1.3** Changed Field Quality Manager to Document Control Coordinator. **Section 2** Added requirements for unattended deployment of in-situ monitoring equipment. **Section 3.1 and 3.2, 4** Clarified requirements for routine and NPDES compliance monitoring. **Section 3.2, 2 and 5** Added first sentence for clarification.	June 13, 2008

SESDPROC-100-R1, *Field pH Measurement*, replaces SESDPROC-100-R0 **General** Deleted all references to SOSA. Updated referenced procedures due to changes in title names and/or to reflect most recent version. Replaced "shall" with "will". **Title Page** Changed title for Antonio Quinones from Environmental Investigations Branch to Enforcement and Investigations Branch. Changed Bill Cosgrove's title from Acting Chief to Chief. **Section 1.3** Updated information to reflect that procedure is located on the H: drive of the LAN. **Section 1.4** Alphabetized and revised the referencing style for consistency. **Section 2** Added last paragraph regarding stopping measurements due to environmental conditions. **Section 3.4** Re-phrased procedure #2 for clarity.	November 1, 2007
SESDPROC-100-R0, Field pH Measurement, Original Issue	February 05, 2007

TABLE OF CONTENTS

1 General Information

1.1 Purpose

This document describes procedures, methods and considerations to be used and observed when conducting field pH measurements in aqueous phase environmental media, including groundwater, surface water and certain wastewaters.

1.2 Scope/Application

The procedures contained in this document are to be used by field personnel when measuring the pH of aqueous phase environmental media in the field. On the occasion that SESD field personnel determine that any of the procedures described in this section cannot be used to obtain pH measurements of the media being sampled, and that another method must be used to obtain said measurements, the variant instrument and/or measurement procedure will be documented in the field logbook and subsequent investigation report, along with a description of the circumstances requiring its use. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

1.3 Documentation/Verification

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on SESD's local area network (LAN). The Document Control Coordinator is responsible for ensuring that the most recent version of the procedure is placed on SESD's LAN and for maintaining records of review conducted prior to its issuance.

1.4 References

SESD Operating Procedure for Equipment Inventory and Management, SESDPROC-108, Most Recent Version

SESD Operating Procedure for Logbooks, SESDPROC-010, Most Recent Version

United States Environmental Protection Agency (US EPA). 2001. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual. Region 4 Science and Ecosystem Support Division (SESD), Athens, GA

USEPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 SESD, Athens, GA, Most Recent Version.

1.5 General Precautions

1.5.1 Safety

Proper safety precautions must be observed when conducting field pH measurements. Refer to the SESD Safety, Health and Environmental Management Program Procedures and Policy Manual (Most Recent Version) and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. Address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

1.5.2 Procedural Precautions

All field pH measurements pertinent to the sampling event should be recorded in the field logbook for the event. All records, including a unique, traceable identifier for the instrument, such as a property number or serial number, should be entered according to the procedures outlined in the SESD Operating Procedure for Logbooks (SESDPROC-010) and the SESD Operating Procedure for Equipment Inventory and Management, (SESDPROC-108).

Care should be taken not to contaminate standards and samples and verify the expiration date of all standards prior to use. All meters should be calibrated, operated and maintained according to the manufacturer's specifications.

2 Quality Control

All pH meters will be maintained and operated in accordance with the manufacturer's instructions and the SESD Operating Procedure for Equipment Inventory and Management (SESDPROC-108). Before a meter is taken to the field, it will be properly calibrated or verified, according to Section 3.2 of this procedure, to ensure it is operating properly. These calibration and verification checks will be documented and maintained in a logbook.

The ambient temperature in the immediate vicinity of the meter should be measured and recorded in the field logbook to insure the instrument is operated within the manufacturer's specified range of operating temperatures. For instruments that are deployed for *in-situ* measurements, the temperature of the medium being monitored should be measured and recorded in the logbook prior to deployment. *In-situ monitoring equipment may be utilized in unattended deployments where autonomous logging may preclude temperature measurement prior to deployment. Because in-situ instrumentation generally has a wide range of operating temperature, the field investigator may utilize professional judgment in determining if the operating environment is suitable for unattended deployment.*

If at any time during a field investigation, it appears that the environmental conditions could jeopardize the quality of the measurement results, the measurements will be stopped. This will be documented in the field logbook.

3 Field pH Measurement Procedures

3.1 General

pH is defined as the negative logarithm of the effective hydrogen-ion concentration. For routine work, a pH meter accurate and reproducible to within 0.2 Standard Unit (S.U.) is suitable. For NPDES compliance monitoring, the pH meter should be accurate and reproducible to within 0.1 S.U. Both meters should have a range of 0 to 14 S.U.s and be equipped with a temperature-compensation adjustment.

3.2 Instrument Calibration

Many brands of instruments are commercially available for the measurement of pH incorporating a wide variety of technologies. The manufacturer's instruction manual should be consulted for specific procedures regarding their calibration, maintenance and use. Calibration of any measurement instrument must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate. At a minimum, a two-point calibration should be conducted to ensure the accuracy of the meter. The following are basic guidelines for calibration/verification and are provided as an example:

1. Verify the meter's internal temperature sensor (thermistor) against a National Institute of Standards and Technology (NIST) traceable thermometer and note any differences between the thermistor and the NIST-traceable thermometer in the logbook. If the temperatures do not agree within ± 4°C, the unit or probe must be repaired or replaced. Alternatively, if the meter can be used in a manual temperature compensation mode, the NIST-traceable thermometer may be used for temperature readings and the necessary corrections applied. Check and record the temperatures of the standards and the samples.

2. If the pH range of the sample is not known, the pH of the sample to be tested should be estimated either from historical data or by using a four-color pH indicator paper or equivalent. Using this information, calibrate the pH meter with the buffers that bracket the expected pH range. Buffer solutions are commonly pH 4, 7 and 10. It may be possible to configure the pH meter so that it can be standardized with buffers other than those in the default configuration.

3. Immerse the probe in the first buffer solution and calibrate the meter to read the correct pH. After the initial buffer calibration, calibrate the meter using other buffer solutions, as appropriate. Rinse the probe with de-ionized water and blot dry or otherwise remove excess rinse water between the different buffer solutions. Record the buffer values and temperatures used to calibrate the meter.

4. Rinse the probe with de-ionized water, blot dry or otherwise remove excess rinse water and immerse it into the appropriate buffer and read as a sample. If the meter reads within ± 0.2 S.U. of the known value of the buffer (for general applications such as ecological studies) or ± 0.1 S.U. (for regulatory applications such as NPDES or drinking Water programs), record the value indicated by the meter. If the meter is outside of the acceptable accuracy range, it should be recalibrated. If it is still outside of the acceptable accuracy range after the second calibration, the electrode and/or meter should be replaced.

5. Once the meter has been properly calibrated and verified (steps 1-4 above), it is ready for use. Rinse the probe with de-ionized water and store it according to manufacturer's recommendations. Certain instruments may require being left on until all sample measurements are performed and the results are recorded. When collecting measurements from grab samples, certain instrument manufacturers recommend that an intermediate check(s) be performed by periodically checking the meter against a known calibration buffers if used for extended periods (> 4 hrs).

6. Unless the manufacturer indicates that the meter maintains its calibration after being turned off, meters must be re-calibrated if they are turned off during their period of use.

3.3 Sample Measurement Procedures

These procedures should be followed when conducting field pH measurements of grab samples:

1. Collect a sample. If the meter's thermistor is to be used for the temperature of record for the measurement activity, the temperature should be read as soon as the reading stabilizes and prior to measuring the pH.

   Note 1: When the pH meter response is slow, unstable, or non-reproducible, it may be necessary to check the conductivity. If the conductivity is lower than 20 to 30 µmhos/cm, it is permissible to add 1 ml of 1M potassium chloride solution per 100 ml of sample to improve response time for the probe. Recheck the pH and record.

   Note 2: If the pH measurements are to be used for RCRA regulatory purposes and when the pH approaches the alkaline end (pH ≥ 11.0) of the scale, the pH measurements should be made by a qualified analyst using laboratory quality equipment to control the sample at 25°C ± 1°C.

2. Immerse the probe in the sample keeping it away from the sides and

bottom of the sample container. Allow ample time for the probe to equilibrate with the sample.

3. While suspending the probe away from the sides and bottom of the sample container, record the pH.

4. Rinse the probe with de-ionized water and store it in the manufacturer's recommended storage solution until the next sample is ready.

These procedures should be followed when conducting in-situ field pH measurements:

1. Place the probe into the media to be measured and allow the pH and temperature readings to stabilize. Once the readings have stabilized, record the measurements in the logbook.

2. When deploying meters for extended periods of time, insure the measurement location is representative of average media conditions.

3.4 Operational Check

Even though it is not necessary to re-calibrate pH meters at regular intervals during the day, depending on the instrument, it may be appropriate to occasionally perform operational checks to determine if site conditions, such as an increase in temperature, have impacted the meter's performance. If an operational check is warranted, the following procedure should be followed to ensure that the performance of the meter has not changed.

1. While in use, periodically check the pH by rinsing the probe with de-ionized water, blot dry or otherwise remove excess rinse water and immerse it into the appropriate buffer solution. If the measured pH differs by $\geq$ 0.2 S.U. or 0.1 S.U. (depending on the application) from the buffer solution, the meter must be re-calibrated.

A post-operation instrument verification check will be performed using the appropriate buffer(s) at the end of the day or after all measurements have been taken for a particular period of operation. These measurements must be recorded in the field logbook.

Region 4
U.S. Environmental Protection Agency
Science and Ecosystem Support Division
Athens, Georgia

OPERATING PROCEDURE

Title: **Field Temperature Measurement**

Effective Date: October 23, 2014	**Number:** SESDPROC-102-R4

Authors

Name: Hunter Johnson
Title: Environmental Engineer
Signature: _____ Date: 10/21/14

Approvals

Name: John Deatrick
Title: Chief, Enforcement and Investigations Branch
Signature: _____ Date: 10/22/14

Name: Laura Ackerman
Title: Acting Chief, Ecological Assessment Branch
Signature: _____ Date: 10/21/14

Name: Hunter Johnson
Title: Field Quality Manager, Science and Ecosystem Support Division
Signature: _____ Date: 10/21/14

Revision History

The top row of this table shows the most recent changes to this controlled document. For previous revision history information, archived versions of this document are maintained by the SESD Document Control Coordinator on the SESD local area network (LAN).

History	Effective Date
SESDPROC-102-R4, *Field Temperature Measurement*, replaces SESDPROC-102-R3 **Cover Page:** The Enforcement and Investigations Branch Chief was changed from Archie Lee to John Deatrick. The Ecological Assessment Branch Chief was changed from Bill Cosgrove to Acting Chief Laura Ackerman. The FQM was changed from Liza Montalvo to Hunter Johnson. **Revision History:** Changes were made to reflect the current practice of only including the most recent changes in the revision history. **Section 2:** Omitted the following: "Data Sonde thermistors will be verified on a monthly basis to ensure accuracy. These verification checks are documented in the instrument's tracking logbook."	October 23, 2014
SESDPROC-102-R3, *Field Temperature Measurement*, replaces SESDPROC-102-R2	February 4, 2011
SESDPROC-102-R2, *Field Temperature Measurement*, Replaces SESDPROC-102-R1	June 13, 2008
SESDPROC-102-R1, *Field Temperature Measurement*, Replaces SESDPROC-102-R0	November 1, 2007
SESDPROC-102-R0, Field Temperature Measurement, Original Issue	February 05, 2007

TABLE OF CONTENTS

1 General Information

1.1 Purpose

This document describes general and specific procedures, methods and considerations to be used and observed when measuring the temperature of aqueous phase environmental media, including groundwater, surface water and certain wastewaters.

1.2 Scope/Application

The procedures contained in this document are to be used by field personnel when measuring the temperature of aqueous phase environmental media in the field. On the occasion that SESD field personnel determine that any of the procedures described in this section cannot be used to obtain temperature measurements of the media being sampled, and that another method or measurement instrument must be used to obtain said measurements, the variant instrument and measurement procedure will be documented in the field log book and subsequent investigation report, along with a description of the circumstances requiring its use. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

1.3 Documentation/Verification

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD local area network (LAN). The Document Control Coordinator is responsible for ensuring the most recent version of the procedure is placed on the LAN and for maintaining records of review conducted prior to its issuance.

1.4 References

SESD Operating Procedure for Equipment Inventory and Management, SESDPROC-108, Most Recent Version

SESD Operating Procedure for Logbooks, SESDPROC-010, Most Recent Version

United States Environmental Protection Agency (US EPA). Most Recent Version. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual. Region 4 Science and Ecosystem Support Division (SESD), Athens, GA

US EPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 SESD, Athens, GA, Most Recent Version

1.5 General Precautions

1.5.1 Safety

Proper safety precautions must be observed when conducting temperature measurements in the field. Refer to the SESD Safety, Health and Environmental Management Program Procedures and Policy Manual and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. The field investigators will address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

2 Quality Control

All thermometers should be maintained and operated in accordance with the manufacturer's instructions and the SESD Operating Procedure for Equipment Inventory and Management (SESDPROC-108). Temperature measurement devices such as pH, conductivity and dissolved oxygen (DO) meter thermistors will be verified against a National Institute of Standards and Technology (NIST)-traceable thermometer before each use as described in Section 3.2.

If at any time during a field investigation, it appears that the environmental conditions could jeopardize the quality of the measurement results, the measurements will be stopped. This will be documented in the field logbook.

3 Field Temperature Measurement Procedures

3.1 General

Field temperature measurements may be made with a field thermometer, equipment thermistor, or NIST-traceable thermometer. At a minimum, the temperature measurement device should be capable of measuring in 0.1°C increments.

3.2 Instrument Verification

3.2.1 Field thermometers and thermistors

Temperature measurement devices such as field thermometers and equipment thermistors will be verified against a NIST-traceable thermometer prior to use and should agree within ± 4.0°C. Corrections may be applied for measurements up to ± 4.0°C depending on investigation objectives, but the instrument must be repaired or replaced beyond that range.

3.2.2 NIST-traceable thermometer

Verification of the NIST-traceable thermometers that are used to verify temperature measuring devices is accomplished by comparing temperature readings from the NIST-traceable thermometer to a thermometer that has an independent certification of accuracy traceable to the National Institute of Standards and Testing. Current certified thermometers are maintained by the SESD Analytical Support Branch and are called reference thermometers.

Each NIST-traceable thermometer is verified by comparing at least annually against a reference thermometer. If corrections need to be applied, they will be noted in the NIST-traceable thermometer. Depending on investigation objectives, project leaders may decide to apply the correction factor as necessary.

3.3 Inspections

All temperature measurement devices should be inspected for leaks, cracks, and/or function prior to each use.

3.4 Sample measurement procedures for thermometers/thermistors

(Make measurements in-situ when possible)

1. Clean the probe end with de-ionized water and immerse into sample.

2. If not measuring in-situ, swirl the instrument in the sample for mixing and

equilibration.

3. Allow the instrument to equilibrate with the sample for at least one minute.

4. Suspend the instrument away from the sides and bottom, if not in-situ, to observe the temperature reading.

5. Record the reading in the log book. For most applications, report temperature readings to the nearest 0.5°C or to the nearest 0.1°C depending on need.

   Note: Always clean the thermometer with de-ionized water or a detergent solution, if appropriate, prior to storage and/or use.

3.5 Units

Degrees Celsius (°C) or Degrees Fahrenheit (°F)

***Conversion Formulas**:*

°F = (9/5 °C) + 32 or °C = 5/9 (°F - 32)

Region 4
U.S. Environmental Protection Agency
Science and Ecosystem Support Division
Athens, Georgia

OPERATING PROCEDURE

Title: **Field Specific Conductance Measurement**

Effective Date: August 30, 2012	**Number:** SESDPROC-101-R5

Authors

Name: Timothy Simpson
Title: Environmental Scientist
Signature: Timothy Simpson Date: 08/23/2012

Name: Hunter Johnson
Title: Environmental Engineer
Signature: Hunter Johnson Date: 8/23/12

Approvals

Name: Danny France
Title: Chief, Enforcement and Investigations Branch
Signature: Danny France Date: 8/23/12

Name: John Deatrick
Title: Chief, Ecological Assessment Branch
Signature: John Deatrick Date: 8/23/12

Name: Bobby Lewis
Title: Field Quality Manager, Science and Ecosystem Support Division
Signature: Bobby Lewis Date: 8/23/12

Revision History

This table shows changes to this controlled document over time. The most recent version is presented in the top row of the table. Previous versions of the document are maintained by the SESD Document Control Coordinator.

History	Effective Date
SESDPROC-101-R5, *Field Specific Conductance Measurement*, replaces SESDPROC-101-R4 **General:** Corrected any typographical, grammatical, and/or editorial errors. **Title Page:** Changed the Ecological Assessment Branch Chief from Bill Cosgrove to John Deatrick. **Section 3.4:** Added paragraphs 1 and 2 concerning performing operational checks during the day.	August 30, 2012
SESDPROC-101-R4, *Field Specific Conductance Measurement*, replaces SESDPROC-101-R3 **Cover Page:** Hunter Johnson was added as co-author. The EIB Branch Chief was changed from Archie Lee to Danny France. The FQM was changed from Liza Montalvo to Bobby Lewis. **Section 3.2:** Replaced the first paragraph with the following language for clarification purposes: "Many brands of instruments are commercially available for the measurement of specific conductance incorporating a wide variety of technologies. The manufacturer's instruction manual should be consulted for specific procedures regarding their calibration, maintenance and use. Calibration of any measurement instrument must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate." In the second paragraph, revised the language of the first sentence to clarify documentation procedures associated with the effect of temperature on conductivity. Replaced the second sentence with "The following are basic guidelines for calibration/verification and are provided as an example:" The note found in Item # 3 was revised to clarify the relationship between calibration standards and the anticipated specific conductance. In Item # 6, the third sentence was replaced with the following: "Certain meters may require that the instrument be left on until all sample measurements are performed and the results are recorded." In the forth sentence, replaced "it is recommended" with "certain instrument manufacturers recommend." **Section 3.3**: In the first sentence, replaced "must" with "should."	January 13, 2012

SESDPROC-101-R3, *Field Specific Conductance Measurement*, replaces SESDPROC-101-R2 **General:** Corrected any typographical, grammatical and/or editorial errors. **Cover Page:** The Author was changed from Ron Phelps to Timothy Simpson. The Enforcement and Investigations Branch Chief was changed from Antonio Quinones to Archie Lee. The FQM was changed from Laura Ackerman to Liza Montalvo. **Section 1.2:** Added the following statement: Mention of trade names or commercial products does not constitute endorsement or recommendation for use. **Section 1.3:** Omitted the reference to the H: drive of the LAN. **Section 3.1:** Added "microsiemens per centimeter (µS/cm)" in addition to micromhos per centimeter (µmhos/cm) to the first sentence. **Section 3.2:** Item #3 - Added the following statement: "Fresh standards should be used for each calibration. Item #4 - Added language related to the auto-recognition of standards during meter calibration (first 3 sentences). Added items #5 and #6.	August 12, 2011
SESDPROC-101-R2, *Field Specific Conductance Measurement*, replaces SESDPROC-101-R1 **Cover Page:** Author was changed from Marty Allen to Ron Phelps. **Revision History** Changed Field Quality Manager to Document Control Coordinator. **Section 1.3** Changed Field Quality Manager to Document Control Coordinator. **Section 2** Added requirements for unattended deployment of in-situ monitoring equipment. **Section 3.2** Added sentence to paragraph 2 to identify minimum requirements for calibration/verification. **Section 3.3** Moved operational check to Section 3.4.	June 13, 2008

SESDPROC-101-R1, *Field Specific Conductance Measurement*, replaces SESDPROC-101-R0 **General** Deleted all references to SOSA. Updated referenced procedures due to changes in title names and/or to reflect most recent version. **Title Page** Changed title for Antonio Quinones from Environmental Investigations Branch to Enforcement and Investigations Branch. Changed Bill Cosgrove's title from Acting Chief to Chief. **Section 1.3** Updated information to reflect that procedure is located on the H: drive of the LAN. **Section 1.4** Alphabetized and revised the referencing style for consistency. **Section 2** Added last paragraph regarding stopping measurements due to environmental conditions.	November 1, 2007
SESDPROC-101-R0, *Field Specific Conductance Measurement*, Original Issue	February 05, 2007

TABLE OF CONTENTS

1 General Information

1.1 Purpose

This document describes procedures, methods and considerations to be used and observed when conducting field specific conductance measurements in aqueous phase environmental media, including groundwater, surface water and certain wastewaters.

1.2 Scope/Application

The procedures contained in this document are to be used by field investigators when measuring the specific conductance of aqueous phase environmental media in the field. On the occasion that SESD field investigators determine that any of the procedures described in this section cannot be used to obtain specific conductance measurements of the media being sampled, and that another method must be used to obtain said measurements, the variant instrument and/or measurement procedure will be documented in the field logbook, along with a description of the circumstances requiring its use. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

1.3 Documentation/Verification

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD local area network (LAN). The Document Control Coordinator is responsible for ensuring the most recent version of the procedure is placed on the LAN and for maintaining records of review conducted prior to its issuance.

1.4 References

SESD Operating Procedure for Equipment Inventory and Management, SESDPROC-108, Most Recent Version

SESD Operating Procedure for Logbooks, SESDPROC-010, Most Recent Version

United States Environmental Protection Agency (US EPA). 2001. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual. Region 4 Science and Ecosystem Support Division (SESD), Athens, GA

US EPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 SESD, Athens, GA, Most Recent Version

1.5 General Precautions

1.5.1 Safety

Proper safety precautions must be observed when conducting field specific conductance measurements. Refer to the SESD Safety, Health and Environmental Management Program Procedures and Policy Manual and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. Address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

1.5.2 Procedural Precautions

All field specific conductance measurements pertinent to the sampling event, including a unique, traceable identifier for the instrument, such as a property number or serial number, should be recorded in the field logbook for the event. All records should be entered according to the procedures outlined in the SESD Operating Procedure Logbooks (SESDPROC-010, most recent version).

Care should be taken to not contaminate standards and samples and verify the expiration date of all standards prior to use. All meters should be calibrated, operated and maintained according to the manufacturer's specifications.

2 Quality Control

All specific conductance meters will be maintained and operated in accordance with the manufacturer's instructions and the SESD Operating Procedure for Equipment Inventory and Management (SESDPROC-108, most recent version). Before a meter is taken to the field, it will be properly calibrated or verified, according to Section 3.2 of this procedure, to ensure it is operating properly. These calibration and verification checks will be documented and maintained in a logbook.

The ambient temperature in the immediate vicinity of the meter should be measured and recorded in the field logbook to ensure the instrument is operated within the manufacturer's specified range of operating temperatures. For instruments that are deployed for in-situ measurements, the temperature of the medium being monitored should be measured and recorded in the logbook prior to deployment. *In-situ monitoring equipment may be utilized in unattended deployments where autonomous logging may preclude temperature measurement prior to deployment. Because in-situ instrumentation generally has a wide range of operating temperature, the field investigator may utilize professional judgment in determining if the operating environment is suitable for unattended deployment.*

If at any time during a field investigation it appears that the environmental conditions could jeopardize the quality of the measurement results, the measurements will be stopped. This will be documented in the field logbook.

3 Field Specific Conductance Measurement Procedures

3.1 General

Specific conductance is a measure of the ability of an aqueous solution to conduct an electric current and is customarily reported in microsiemens per centimeter (µS/cm) or micromhos per centimeter (µmhos/cm) at 25°C. It is important to note that if the specific conductance measurements are for NPDES reporting purposes, the meter and conductivity cell should be verified by comparing against a laboratory meter with a platinum-electrode type conductivity cell.

3.2 Instrument Calibration and Verification

Many brands of instruments are commercially available for the measurement of specific conductance incorporating a wide variety of technologies. The manufacturer's instruction manual should be consulted for specific procedures regarding their calibration, maintenance and use. Calibration of any measurement instrument must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate.

Conductivity is affected by temperature; therefore, for instruments that do not automatically compensate for temperature, the user should document temperature first so that appropriate adjustments can be made in accordance with the manufacturer's instructions and/or method. The following are basic guidelines for calibration/verification and are provided as an example:

1. Verify the meter's internal temperature sensor (thermistor) against a National Institute of Standards and Technology (NIST) traceable thermometer and note any differences between the thermistor and the NIST-traceable thermometer in the logbook. If the temperatures do not agree within ± 4°C, the unit must be repaired or replaced. Alternatively, if the meter can be used in a manual temperature compensation mode, the NIST-traceable thermometer may be used for temperature readings and the necessary corrections applied. Check and record the temperatures of the standards and the samples.

2. Rinse the probe with de-ionized water and blot dry before conducting the following calibration and verification checks.

3. Immerse the probe in the first standard solution and calibrate or verify the meter against that solution. Fresh standards should be used for each calibration. After the initial standard, calibrate and/or verify the meter using additional standards, as appropriate. Rinse the probe with de-ionized water and blot dry or otherwise remove excess rinse water between the different standards. Record the standard values/temperatures used to calibrate or verify the meter.

   Note: Some instruments require that calibration standards reflect the

anticipated specific conductance of the media being measured.

4. Some meters will auto-recognize standards during calibration. For example, the Orion Star Series meter will auto-recognize standards 1413 µS/cm, 100 µS/cm and 12.9 mS/cm. If the meter is calibrated in a manner where it does not auto-recognize the standard, and the meter is not accurate to within ± 10 % of the standard solution(s) known values, the meter or probe should be repaired or replaced. If this condition can be corrected by adjusting the cell constant of the probe, refer to the instruction manual and make the adjustment.

5. After calibration is complete, place the probe back into the calibration standard used and record a post-calibration reading. Record a post calibration reading for each standard used. If the meter is not accurate to within ± 10 % of the standard solution(s) known values, it should be recalibrated. If it is still outside of the acceptable accuracy range after the second calibration, the probe and/or meter should be replaced.

6. Once the meter has been properly calibrated and verified (steps 1-5 above), it is ready for use. Rinse the probe with de-ionized water and store it in the manufacturer's recommended storage solution. Certain meters may require that the instrument be left on until all sample measurements are performed and the results are recorded. When collecting measurements from grab samples, certain instrument manufacturers recommend that an intermediate check(s) be performed by periodically checking the meter against the known calibration standards if used for extended periods (> 4 hrs).

3.3 Sample Measurement Procedures

The following procedures should be followed when conducting field specific conductance measurements of grab samples:

1. Collect the sample, check and record its temperature.

2. Correct the instrument's temperature adjustment to the temperature of the sample (if required).

3. Immerse the probe in the sample keeping it away from the sides and bottom of the container. It is important that the center portion of the probe be wetted by the sample.

4. Allow meter to stabilize. Record the results in a logbook.

5. Rinse probe with de-ionized water.

The following procedures should be followed when conducting in-situ field specific conductivity measurements:

1. Place the probe into the media to be measured and allow the specific conductivity and temperature readings to stabilize. Once the readings have stabilized, record the measurements in the logbook.

2. When deploying meters for extended periods of time, ensure the measurement location is representative of average media conditions.

3.4 Operational Checks

Even though it is not necessary to re-calibrate conductivity meters at regular intervals during the day, depending on the instrument, it may be appropriate to occasionally perform operational checks to determine if site conditions, such as an extreme temperature change, have impacted the meter's performance. If an operational check is warranted, the following procedures should be followed to ensure that the performance of the meter has not changed.

Check the conductivity meter with fresh conductivity standard. Rinse the conductivity probe with deionized water, blot dry or otherwise remove excess rinse water and immerse it into the appropriate conductivity standard. If the measured conductivity value is not with ± 10% of the standard, the probe should be re-calibrated. If the probe is still not within ± 10% of the standard, the probe should be repaired or replaced. These measurements must be recorded in the field logbook.

A post-operation instrument verification check should be performed using the appropriate standard(s) at the end of the day or after all measurements have been taken for a particular period of operation. These measurements must be recorded in the field logbook.

U.S. Environmental Protection Agency
Region 4, Science and Ecosystem Support Division
Athens, Georgia

OPERATING PROCEDURE

Title: **Field Measurement of Oxidation-Reduction Potential (ORP)**

Effective Date: January 29, 2013	**Number:** SESDPROC-113-R1

Author

Name: Brian Striggow
Title: Environmental Engineer

Signature: _____ Date: 1-23-13

Approval

Name: Danny France
Title: Chief, Enforcement and Investigations Branch

Signature: _____ Date: 1/23/13

Name: Bobby Lewis
Title: Field Quality Manager, Science and Ecosystem Support Division

Signature: _____ Date: 1/23/13

Revision History

This Table shows changes to this controlled document over time. The most recent version is presented in the top row of the table. Previous versions of the document are maintained by the SESD Document Control Coordinator.

History	Effective Date
SESDPROC-113-R1, *Field Measurement of Oxidation-Reduction Potential (ORP)*, replaces SESDPROC-013-R0 **General:** Corrected any typographical, grammatical, and/or editorial errors. **Title Page:** Changed the EIB Chief from Archie Lee to Danny France, and the Field Quality Manager from Laura Ackerman to Bobby Lewis. **Section 1.2:** Added the following statement: Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use. **Section 2.2:** Added new paragraph #7 and new Figure 4. Renumbered subsequent Figures. In paragraph #8, deleted the following sentence: "In multi parameter sondes, the reference electrode is typically shared by the ORP and pH measuring systems." In paragraph #10, 2nd sentence, updated the reference from Figure 3 to Table 1. In addition, updated numbers in the "example" equation. In paragraph #11, 1st sentence, replaced +560 mV with +544 mV. Added new paragraph #12 and new Figure 6. **Section 3.2:** **A**dded new paragraph #5 describing operational checks in the event of potential disturbances. In paragraph #8, added the following at the end of the 1st sentence: "or handled as directed by the SHEMP."	January 29, 2013
SESDPROC-113-R0, *Field Measurement of Oxidation-Reduction Potential (ORP)*, Original Issue	August 7, 2009

TABLE OF CONTENTS

1 General Information

1.1 Purpose

This document describes procedures, methods and considerations to be used and observed when conducting field Oxidation-Reduction Potential (ORP) measurements in aqueous environmental media, including groundwater, surface water and certain wastewater. The measurement of soil ORP is a non-standard measurement and procedures should be developed on a project-specific basis.

1.2 Scope/Application

This document describes procedures generic to all ORP measurement methods to be used by Science and Ecosystem Support Division (SESD) field personnel when collecting and handling samples in the field. On the occasion SESD personnel determine that any of the procedures described in this section are inappropriate, inadequate or impractical and that another procedure must be used to obtain an ORP measurement, the variant procedure will be documented in the field logbook, along with a description of the circumstances requiring its use. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

1.3 Documentation/Verification

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD local area network (LAN). The Document Control Coordinator (DCC) is responsible for ensuring the most recent version of the procedure is placed on the SESD LAN and for maintaining records of review conducted prior to its issuance.

1.4 References

Faulkner, S.P., W.H. Patrick, Jr., and R.P. Gambrell. 1989. Field techniques for measuring wetland soil parameters. Soil Sci. Soc. Am. J. 53:883-890.

Megonigal, J.P., W.H. Patrick, Jr., and S.P. Faulkner. 1993. Wetland identification in seasonally flooded forest soils: soil morphology and redox dynamics. Soil Sci. Soc. Am. J. 57:140-149.

D.K. Nordstrom and F.D. Wilde. 2005. National Field Manual, Chapter A6, Section 6.5: Reduction Oxidation Potential (Electrode Method). USGS.

Pankow, J.E. 1991. Aquatic chemistry concepts. Lewis Publishers, Inc. Cheleas, Michigan. USA.

Pruitt, B.A. 2001. Hydrologic and soil conditions across hydrogeomorphic settings. Dissertation. The University of Georgia, Athens, GA. USA.

Soil Survey Staff. 1998. Keys to soil taxonomy, 8th Edition. United States Department of Agriculture, Natural Resources Conservation Service, Washington, DC. USA.

Standard Methods. 1992. Standard Methods for the Examination of Water and Wastewater, 18th Edition. Prepared and published jointly by: American Public Health Association, American Water Works Association, Water Environment Federation. American Public Health Association, Washington, DC. USA.

Stumm, W. and J.J. Morgan. 1981. Aquatic chemistry: an introduction emphasizing chemical equilibra in natural waters, 2nd Ed. John Wiley & Sons, New York. USA.

USEPA. 2001. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual. Region 4 Science and Ecosystem Support Division, Athens, GA.

USEPA. 2007. Safety, Health and Environmental Management Program Procedures and Policy Manual. Science and Ecosystem Support Division, Region 4, Athens, GA.

Wikipedia entry. Reduction Potential. http://en.wikipedia.org/wiki/Reduction_potential. Retrieved April 2, 2009.

1.5 General Considerations

1.5.1 Safety

Proper safety precautions must be observed when verifying or calibrating instruments for measurement of Oxidation-Reduction Potential. Refer to the SESD Safety, Health and Environmental Management Program Procedures and Policy Manual (most recent version) and any pertinent site-specific Health and Safety Plans (HASP) for guidelines on safety precautions. These guidelines should be used to complement the judgment of an experienced professional.

Reagents commonly used in the preparation of ORP calibration standards are toxic and require care when handling. When using this procedure, avoid exposure to these materials through the use of protective clothing, eye wear and gloves. Safety precautions when handling and preparing verification solutions should include gloves and eyewear to prevent dermal and eye contact, and a mask to avoid inhaling dust particles when handling dry materials. Vigorous flushing should be used if the reagents or solutions come in contact with skin or eyes. Following is specific information on commonly used solutions. The application of the solutions is described in detail in Section 3.1, Standard Solutions, of this procedure.

- Quinhydrone (CAS# 106-34-3) is a skin and respiratory irritant and is poisonous if ingested. Safety precautions when handling quinhydrone should include gloves to prevent dermal contact and a mask to avoid inhaling dust particles when mixing dry material to prepare calibration standards. Vigorous flushing should be used if

concentrated material comes in contact with skin or eyes.

- Zobell's solution is also an irritant and toxic if ingested. The same handling precautions apply when mixing and using Zobell's solution as when using quinhydrone. Zobell's reacts with acid to form harmful byproducts, including hydrocyanide gas.

- Light's solution contains ferro- and ferric-cyanide compounds in sulfuric acid. The components are toxic and burns are possible from contact with this solution.

- Potassium iodide solutions have lower toxicity than most calibration solution options. General ingestion, skin contact, and eye contact precautions apply.

Unused quinhydrone, Zobell's, Light's or other calibration reagents and solutions should be returned to SESD for disposal in accordance with the SESD Safety, Health, and Environmental Management Plan (SHEMP).

1.5.2 Records

Documentation of field activities is done in a bound logbook. All records, including a unique, traceable identifier for the instrument, should be entered according to the procedures outlined in the SESD Operating Procedure for Logbooks (SESDPROC-010, most recent version) and the SESD Operating Procedure for Equipment Inventory and Management, (SESDPROC-108, most recent version).

All field ORP measurements pertinent to the sampling event should be recorded in the field logbook for the event as outlined in the SESD Operating Procedure for Logbooks (SESDPROC-010, most recent version), or managed electronically with appropriate backups as described in SESD Operating Procedure for Control of Records (SESDPROC-002, most recent version).

1.5.3 Shipping

Shipped material shall conform to all U.S. Department of Transportation (DOT) rules of shipment found in Title 49 of the Code of Federal Regulations (49 CFR parts 171 to 179), and/or International Air Transportation Association (IATA) hazardous materials shipping requirements found in the current edition of IATA's Dangerous Goods Regulations.

All shipping documents, such as bills of lading, will be retained by the project leader and stored in a secure place.

2 Background

2.1 General

Oxidation is the process of liberating electrons or gaining oxygen. Examples of oxidation include conversion of elemental iron to rust, elemental sulfur to sulfate, and elemental hydrogen to water (Pankow 1991). Reduction is the process of gaining electrons resulting in the charge on some atomic unit in the species to be reduced. Oxidation-reduction potential (ORP) or redox potential (hereafter, referred to as redox) is a measure of the intensity or activity of an aqueous environment or soil to mediate reactions of important elements in biological systems (e.g., O, N, Mn, Fe, S, and C) and other metallic elements.

Considerable confusion arises on the use of the terms oxidation and reduction as they apply to the media under study. The following introduction reproduced from an online 'Wikipedia' article on the topic lucidly explains their relationship in ORP measurement:

> **Reduction potential** (also known as **redox potential**, **oxidation / reduction potential** or **ORP**) is the tendency of a chemical species to acquire electrons and thereby be reduced. Each species has its own intrinsic reduction potential; the more positive the potential, the greater the species' affinity for electrons and tendency to be reduced.
>
> In aqueous solutions, the reduction potential is the tendency of the solution to either gain or lose electrons when it is subject to change by introduction of a new species. A solution with a higher (more positive) reduction potential than the new species will have a tendency to gain electrons from the new species (i.e. to be reduced by oxidizing the new species) and a solution with a lower (more negative) reduction potential will have a tendency to lose electrons to the new species (i.e. to be oxidized by reducing the new species). Just as the transfer of hydrogen ions between chemical species determines the pH of an aqueous solution, the transfer of electrons between chemical species determines the reduction potential of an aqueous solution. Like pH, the reduction potential represents an intensity factor. It does not characterize the capacity of the system for oxidation or reduction, in much the same way that pH does not characterize the buffering capacity.

In short, a numerically positive redox potential or ORP represents an environment conducive to the oxidation of an introduced substance by reduction of the original media.

2.2 Instrumentation

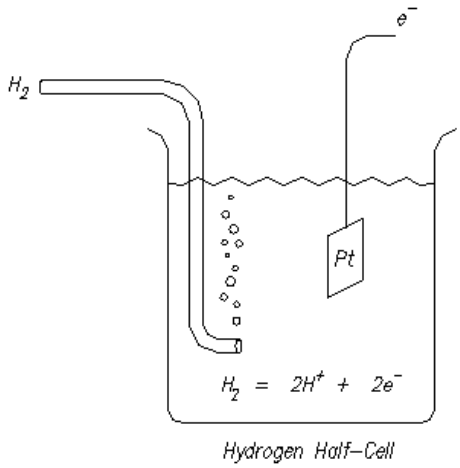
ORP measurement systems are a practical implementation of electrochemical cells, which use metal electrodes in a solution to generate an electric current or voltage. If a platinum electrode is immersed in water with hydrogen bubbled into the solution, the H^2 is oxidized as follows:

$$H^2 = 2H^+ + 2e^-$$

In the electrochemical half-cell illustrated below in Fig.1, hydrogen gas oxidizes to hydrogen ions and free electrons, comprising an oxidation-reduction couple. This couple reaches an

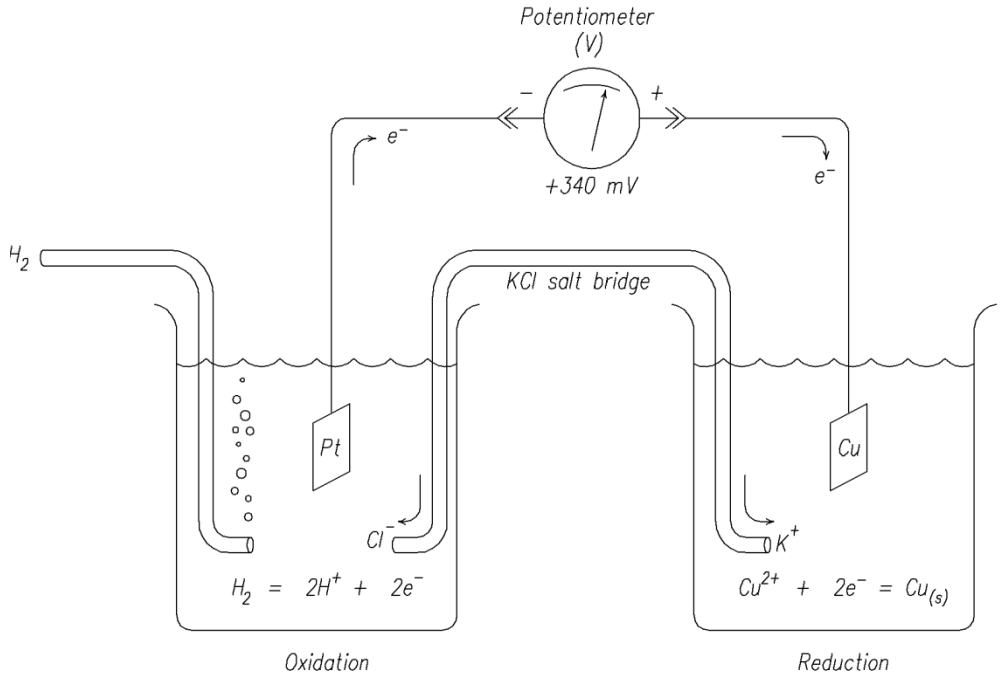
equilibrium state that maintains the reference potential of the electrode. The electric potential develops on the wire connected to the platinum electrode, but is difficult to measure in practice in the isolated half-cell. However, when used in a complete electrochemical cell, the cell illustrated is used as a reference to measure other half-cells against, and is called a Standard Hydrogen Electrode (SHE).

Figure 1



If, as shown in Figure 2, a SHE is connected with a salt bridge to a second half-cell in which a reduction reaction is taking place, the electric potential between the two cells can be measured. In the case shown, the potential of the right cell will be +0.34 Volts in reference to the standard hydrogen electrode on the left. This would be represented as an Oxidation Reduction Potential (ORP) of +340mV on the hydrogen scale, or simply as Eh = +340mV.

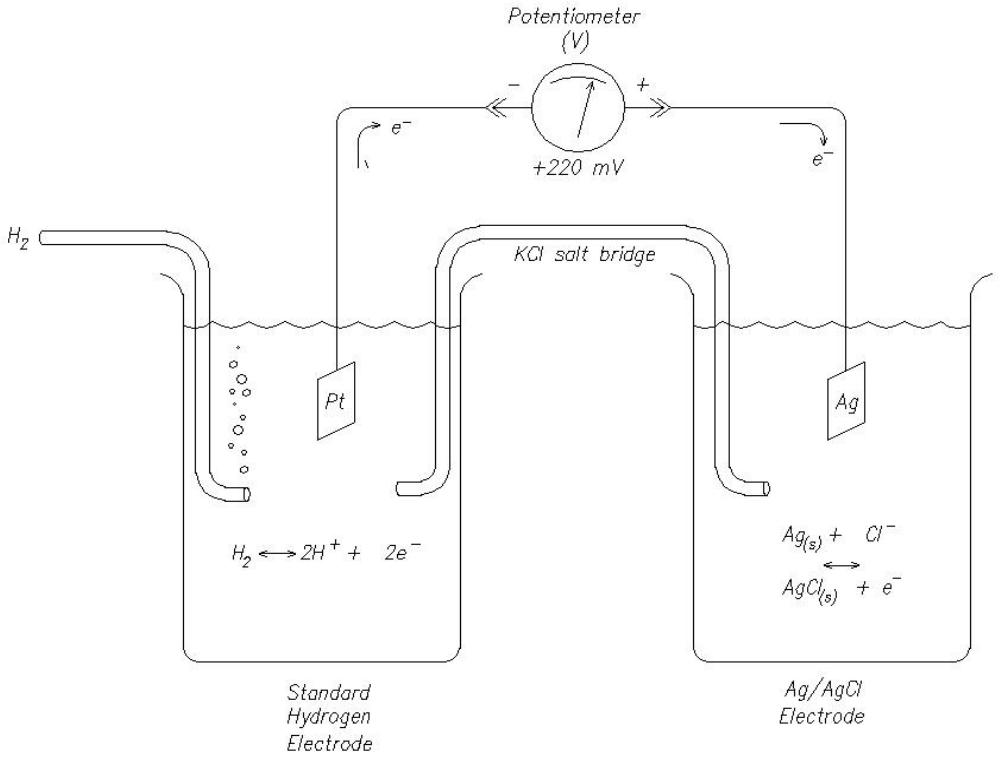
Figure 2



In field practice, the hydrogen electrode is difficult to reproduce. To conduct field measurements, a reference electrode is needed that is simple to maintain and will generate a potential that can be referenced to the standard hydrogen electrode. These requirements are met by the Saturated Calomel Electrode (SCE) and the Silver/Silver Chloride Electrode (SSCE - the SSCE is also commonly identified as an Ag/AgCl electrode). The SCE contains a small amount of elemental mercury, and while useful for certain applications, would rarely be used at SESD. The SSCE or Ag/AgCl electrode is generally used as the reference cell in SESD instrumentation.

In Figure 3 below, a SHE is connected to an Ag/AgCl electrode. In this example of an electrochemical cell, both cells reach an equilibrium potential. At that equilibrium state, the potential of the Ag/AgCl cell is 220mV more positive than the standard hydrogen electrode.

Figure 3



This half-cell potential of the Ag/AgCl electrode in reference to the SHE is used to convert measurements taken with an Ag/AgCl reference back to the hydrogen scale. While the laboratory Ag/AgCl half-cell shown has a potential of +220mV, practical reference cells have varying potentials based on temperature and filling solutions as shown in Table 1 below.

Table 1

Half-cell Potential of Ag/AgCl reference electrode

derived from USGS NFM, Table 6.5.2 (9/2005)

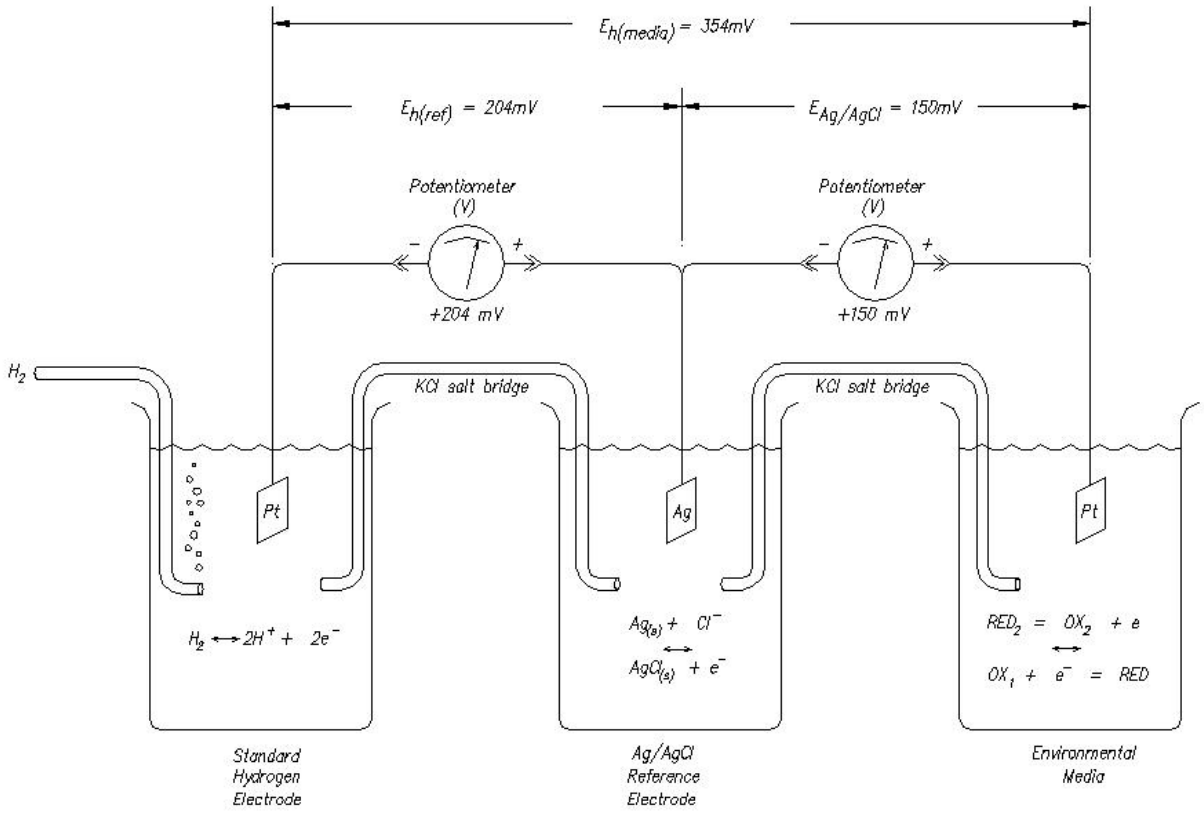
	Molarity of KCl filling solution			
T(°C)	3M	3.3M*	3.5M	Sat/4M
10	220	217	215	214
15	216	214	212	209
20	213	210	208	204
25	209	207	205	199
30	205	203	201	194
35	202	199	197	189
40	198	195	193	184

*interpolated value

Note: YSI sondes and Thermo electrodes typically use 4M KCl filling solutions. Eureka sondes typically use 3.3M KCl filling solutions.

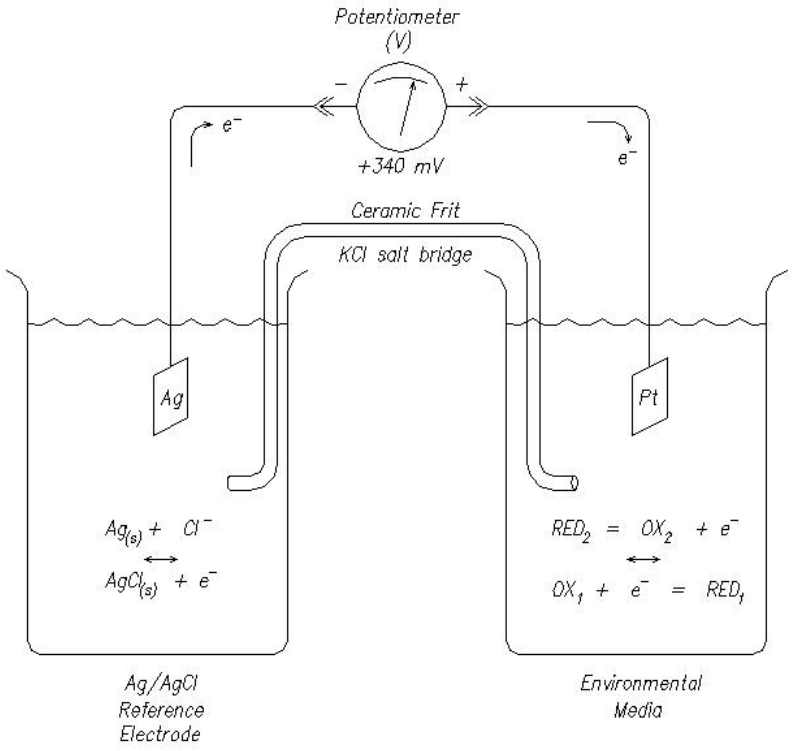
In Figure 4, below, the relationship between a hydrogen electrode, a reference electrode, and a platinum sensing electrode in an arbitrary media is shown. In this case, the ORP of the media in reference to the silver/silver chloride electrode is 150mV. To obtain Eh, the potential of the reference electrode in relation to a hydrogen electrode is added to the potential of the sensing electrode in relation to the reference electrode. In practice, the potential of the reference electrode in relation to a hydrogen electrode is not measured, but obtained from Table 1 above.

Figure 4



In Figure 5 below, a field instrument is represented as separate electrochemical cells. The Ag/AgCl reference electrode uses a ceramic frit or other means to provide the essential salt bridge to the environmental media. The platinum sensing electrode is immersed in the environmental media and connected internally in the instrument to measure the potential (voltage) between the two electrodes.

Figure 5



In this illustration, the ORP is measured as 340 mV. This measurement is made in reference to the Ag/AgCl reference electrode and would be reported as such, or as $E_{Ag/AgCl}$ = 340mV.

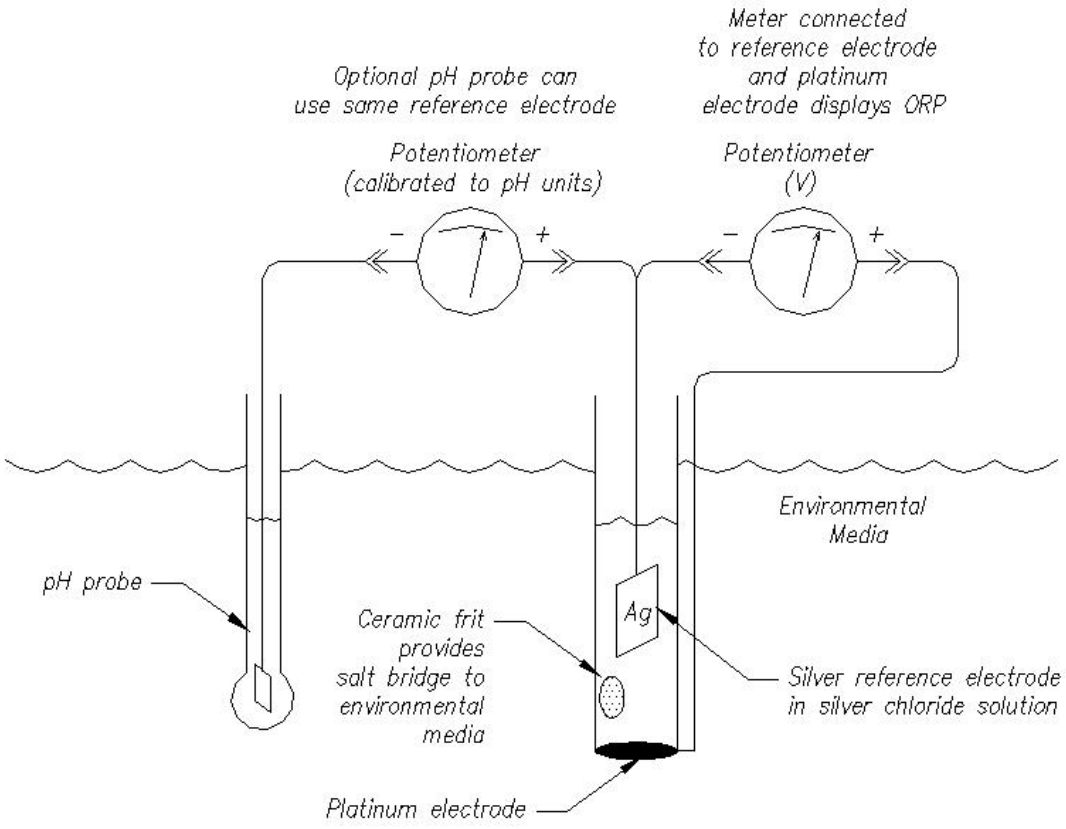
In some cases it will be desirable to report the reading on the hydrogen scale, or Eh. To do so, the potential of the reference electrode against the SHE, obtained from Table 1, is added to $E_{Ag/AgCl}$. For our example:

	340 mv	Measured ORP ($E_{Ag/AgCl}$) of sample
+	204 mV	Eh of Ag/AgCl electrode (ORP of Ag/AgCl electrode referenced to SHE)
	544 mV	Eh of sample

Both the +340 mV field reading and the corrected +544 mV Eh can properly be referred to as ORP results. It is only through specifying the reference scale that the ambiguity can be eliminated.

In Figure 6, below, the theoretical cells shown above have been configured as a practical field instrument. The salt bridge is commonly provided by a ceramic frit connecting the environmental media to the reference electrode. In multi-parameter sondes, the pH probe commonly uses the same reference electrode as the ORP probe.

Figure 6



2.3 Redox Chemistry

In acid-base chemistry, the pH of a system is defined as the negative logarithm of the hydrogen ion activity (simplified in practice to the hydrogen ion concentration):

$$pH = -\log \{H^+\}$$

Similarly, Pankow (1991) described the negative logarithm of the electron activity (pe) as the master variable for describing the equilibrium position for all redox couples in a given system:

$$pe \ / \ - \log \{e^-\}$$

It can be shown (Pankow) that pe is related to Eh by

$$Eh = pe*(2.303*R*T)/F$$

Where:

R = gas constant = $8.314\ J\ K^{-1}\ mol^{-1}$
T = temperature, ^{o}K
F = Faraday constant = $96.485*10^{3}\ C\ mol^{-1}$

At 25°C (298°K) this simplifies to

$$E_H = pe * 0.05916$$

And

$$pe = E_H / 0.05916$$

According to Faulkner et al. (1989) redox is a quantitative measure of electron availability and is indicative of the intensity of oxidation or reduction in both chemical and biological systems. When based on a hydrogen scale, redox (E_H) is derived from the Nernst Equation (Stumm and Morgan 1981):

$$E_H = E_H^{o} + 2.3\ H\ (R\ H\ T)/nF\ H \log\ (J_i\ \{ox\}^{ni}/J_j\ \{red\}^{nj})$$

Where:

E_H^{o} = potential of reference, mV
R = gas constant = $81.987\ cal\ deg^{-1}\ mole^{-1}$
T = temperature, ^{o}K
n = number of moles of electrons transferred
F = Faraday constant = 23.061 cal/mole-mv
{ox} and {red} = activity of the oxidants and reductants, respectively

2.4 Applications

When interpreted properly, redox combined with other conventional water quality parameters is useful in developing a more complete understanding of water chemistry. Several applications of redox are identified below:

1. Redox could be viewed as an extension of the oxygen scale. In this model, the DO probe spans the aerobic scale and the redox probe extends that scale to measure anaerobic conditions. Inferences to geochemistry and chemical speciation can be made from the oxidative state of the system. Application to metal sequestration, metal-iron, -sulfide, -methane complexation, and the subsequent bioaccumulation potential is possible.
2. Redox can be used to identify anaerobiosis at or near the water column and sediment interface in streams, lakes, and estuaries.
3. Redox may be useful in determination of stream jurisdiction and wetland delineation in that it can indicate conditions of soil saturation.

4. Based on redox, a pe (or EH) vs. pH stability diagram can be developed to aid in nutrient exchange studies including the timing, release, and partitioning of important water and sediment quality pollutants such as nitrogen and phosphorus species. Most importantly, redox can be used to address error associated with chamber-effect during closed chamber measurements of the water-sediment interface. Redox probes placed inside the contact chamber and inserted approximately ten centimeters into the underlying sediment can be used to monitor changes in sediment redox caused by the chamber, and steps can be taken to reduce chamber-effect.
5. Redox may be useful in establishing water and sediment quality standards applicable to wetlands.
6. Redox is used to assess the potential of a groundwater system to support various in situ reactions with contaminants, such as reductive dechlorination of chlorinated solvents.
7. Redox can provide a useful indicator of conditions that might compromise the performance of Clark-type dissolved oxygen (DO) probes. In general, anaerobic conditions occur at a redox range of +150 mV to +300 mV (pH-dependent and adjusted to hydrogen reference electrode). When redox drops below this level, DO measurements as determined with a Clarke-type probe are highly suspect as the semi-permeable membrane does not discriminate between partial O_2 and sulfides. Consequently, the meter may be reading sulfides.

2.5 Limitations

In most environmental media, redox reactions will not reach equilibrium due to low concentrations or multiple redox species. Consequently, redox measurements can generally be considered semi-quantitative in environmental media, unless certain conditions exist.

The USGS in the Interferences and Limitations Section 6.5.3A of their National Field Manual succinctly describe some of the issues encountered in the application of ORP measurements. This section is reproduced here, unedited:

> 6.5.3.A INTERFERENCES AND LIMITATIONS
>
> *Measurements should not be carried out without an awareness of the interferences and limitations inherent in the method.*
>
> • *Organic matter and sulfide may cause contamination of the electrode surface, salt bridge, or internal electrolyte, which can cause drift or erratic performance when reference electrodes are used (American Public Health Association and others, 2001).*
>
> • *Hydrogen sulfide can produce a coating on the platinum electrode that interferes with the measurement if the electrode is left in sulfide-rich water for several hours (Whitfield, 1974; Sato, 1960).*
>
> • *The platinum single and combination redox electrodes may yield unstable readings in solutions containing chromium, uranium, vanadium, or titanium ions and other ions that*

are stronger reducing agents than hydrogen or platinum (Orion Research Instruction Manual, written commun., 1991).

• Do not insert redox electrodes into iron-rich waters directly after the electrode(s) contact ZoBell's. An insoluble blue precipitate coats the electrode surface because of an immediate reaction between ferro- and ferricyanide ions in ZoBell's with ferrous and ferric ions in the sample water, causing erratic readings.

Many elements with more than one oxidation state do not exhibit reversible behavior at the platinum electrode surface and some systems will give mixed potentials, depending on the presence of several different couples (Barcelona and others, 1989; Bricker, 1982, p. 59–65; Stumm and Morgan, 1981, p. 490–495; Bricker, 1965, p. 65). Methane, bicarbonate, nitrogen gas, sulfate, and dissolved oxygen generally are not in equilibrium with platinum electrodes (Berner, 1981).

TECHNICAL NOTE:

Misconceptions regarding the analogy between Eh (pe) and pH as master variables and limitations on the interpretation of Eh measurements are explained in Hostettler (1984), Lindberg and Runnells (1984), Thorstenson (1984), and Berner (1981). To summarize:

(1) Hydrated electrons do not exist in meaningful concentrations in most aqueous systems—in contrast, pH represents real activities of hydrated protons. Eh may be expressed as pe (the negative logarithm of the electron activity), but conversion to pe offers no advantage when dealing with measured potentials.

(2) Do not assume that redox species coexist in equilibrium. Many situations have been documented in which dissolved oxygen coexists with hydrogen sulfide, methane, and ferrous iron.

• The practicality of Eh measurements is limited to iron in acidic mine waters and sulfide in waters undergoing sulfate reduction.

• Other redox species are not sufficiently electroactive to establish an equilibrium potential at the surface of the conducting electrode.

(3) A single redox potential cannot be assigned to a disequilibrium system, nor can it be assigned to a water sample without specifying the particular redox species to which it refers. Different redox elements (iron, manganese, sulfur, selenium, arsenic) tend not to reach overall equilibrium in most natural water systems; therefore, a single Eh measurement generally does not represent the system.

3 Methodology

3.1 Standard Solutions

Care should be taken not to contaminate standards and samples and to verify the expiration date of all standards prior to use. All meters should be verified or calibrated according to the manufacturer's procedures.

Standard solutions for calibration and verification should be selected to meet project requirements. SESD generally maintains a stock of Zobell's solution suitable for most projects. The characteristics and use of the common standard solutions are described below.

- Zobell's solution contains potassium ferri- and ferro- cyanide compounds. The solution is available as prepared solutions or premeasured reagents for mixing by the user. Zobell's has moderate toxicity but will react with acid to form harmful byproducts, including hydrocyanide gas. It has a shelf life ranging from several days to several months depending on the manufacturer. Stock and working solutions of Zobell's should be stored in dark bottles due to its light sensitivity.

- Quinhydrone solutions are mixed at the time of use by adding quinhydrone to pH 4 or pH 7 buffers. At 25°C, the E_h of quinhydrone pH 4 and pH 7 verification solutions are 462mV and 285mV respectively. An advantage of quinhydrone solutions is that they offer a span of calibration points that may be appropriate for particular applications. Quinhydrone is a lightly 'poised' solution in that it offers less driving force towards the calibration point: a compromised instrument is more likely to be revealed in a quinhydrone calibration. A quinhydrone calibration/verification solution is created by adding 10g of quinhydrone to 1L of pH 4 or pH 7 buffer solution (ASTM D1498). The solutions are mixed on a magnetic mixing plate for a minimum of 15 minutes to create a saturated solution with undissolved crystals remaining. Quinhydrone solutions are usable for 8 hrs from the time of mixing.

- Light's solution consists of ferrous and ferric ammonium sulphate in sulphuric acid. The solution would rarely be used at SESD due to its high acidity and associated handling difficulty. Spent solutions with a pH<2 would be regulated as a hazardous waste. Light's is a highly poised solution that may allow a marginally functioning electrode to pass calibration.

- A prepared potassium iodide solution is available which has low toxicity and a long shelf life. The solution may stain clothing or surfaces if spilled.

3.2 Verification and Calibration

ORP instruments may be **verified** or **calibrated**, depending on the application. The approach chosen should be selected based on project needs and information presented in Section 2.4., Limitations. Standard laboratory practice in making ORP measurements is to **verify** the accuracy of the instrument prior to use, and this practice should be followed when true quantitative results

are required. In a **verification,** the instrument in its direct-reading mode is checked against a standard solution in a pass/no-pass test, and no corrections are applied to subsequent measurements. In most applications, the ORP information is used semi-quantitatively and for these applications, the instruments may be **calibrated** to the standard solutions. In an instrument **calibration**, the instrument probe is placed in the standard solution and the difference between the standard measurement and the known ORP value of the standard is used by the instrument to make adjustments to the subsequent measurements.

In **verification** of an ORP instrument, the instrument is set to absolute mV reading mode or the internal calibration offset is zeroed out. The instrument probe should then be placed in the standard solution and the reading verified to fall within +/-10mV of the predicted reading for the standard. Instruments with single-purpose electrodes are most suitable for this approach. If the instrument fails the verification, standard solution quality should be considered and instrument maintenance performed per the manufacturer's procedures.

In most SESD field practice, the end data use is semi-quantitative. In this case, the instruments can be **calibrated** to standard solutions appropriate for the project using the manufacturer's recommended procedure. One minute after the calibration, the instrument should display a stable reading within +/-10mV of the predicted reading. An instrument failing this test should be recalibrated to determine if the problem is inadequate equilibration time. In the event of continued instrument failure, aging or contamination of the standard solution should be considered. Subsequently the electrode should be serviced according to the manufacturer's procedures. Common service procedures include cleaning the platinum electrode with mild abrasives or acids and refilling or replacing the reference electrode.

Prior to a mobilization, all ORP instruments will be checked for proper operation and verified or calibrated against standard solutions. During the field mobilization, each instrument will be calibrated or verified prior to, and verified after, each day's use or deployment.

Even though it is not necessary to re-calibrate ORP instrument at regular intervals during the day, it may be appropriate to occasionally perform operational checks to determine if site conditions, such as an extreme temperature change or submersion of a filling solution port have impacted the instrument's performance. If an operational check is warranted, the field operator should follow the appropriate verification/calibration steps as described above.

The predicted ORP values of standard solutions will be obtained from the manufacturer of prepared solutions, literature, or appropriate values listed in this procedure. Care is in order, as the predicted ORP value is specific for the type of reference electrode used by the probe (either Ag/AgCl or calomel) and the molarity of the filling solution in the reference electrode. To use the solution with another electrode or filling solution, the expected ORP readings for the solution should be converted to Eh for the probes intended for the solution as per the Reporting section of this procedure. Then a table can be compiled for the electrode in use by subtracting the $E_{h,ref}$ for the electrode and filling solution in use. This will be done at the Field Equipment Center (FEC) for the solutions stocked.

Verification solutions should be managed per the manufacturer's directions regarding storage and handling. After instrument verification or calibration, the solution cannot be returned to the stock solution container, although a separate container of working solution can be maintained.

Spent solutions and working solutions should be returned from the field to the SESD laboratory for proper disposal by the SHEMP, or handled as directed by the SHEMP. Properly handled stock solutions may be returned to the FEC for use at that facility.

3.3 Measurement

ORP measurements should be conducted in a fashion that prevents the addition or loss of any potential oxidants or reductants. Results could be compromised by exposing the sample to air or allowing H_2S to off-gas from anoxic samples. Like dissolved oxygen measurements, ORP measurements should be conducted in situ or by using a flow-through cell evacuated of air (see the SESD Operating Procedure for Field Measurement of Dissolved Oxygen (SESDPROC-106, most recent version).

When using multi-parameter probes for ORP measurements, the general guidelines for probe deployment described in the SESD Operating Procedure for Field Measurement of Dissolved Oxygen (SESDPROC-106, most recent version) and the SESD Operating Procedure for In situ Water Quality Monitoring (SESDPROC-111, most recent version) apply.

ORP probes must be operated and maintained in accordance with the manufacturer's instructions. Reference electrodes in multi-parameter probes may require regular filling or replacement. Single parameter ORP electrodes may require regular filling and operation in an upright position to assure that proper salt bridge flow is maintained. Platinum electrode surfaces are easily contaminated and polishing or cleaning of the electrodes should be performed as recommended by the manufacturer.

Measurements in field logbooks should be recorded to the nearest mV. The type of reference electrode in use and its filling solution should be recorded in at least one logbook as part of the field project records.

ORP is a temperature sensitive measurement, but ORP instruments are not temperature compensated. Consequently, the media temperature should always be recorded at the same time as the ORP is recorded. Likewise, as ORP is often pH dependent, pH should also be recorded at the time of ORP measurement.

3.4 Reporting

In the absence of a specified reference scale, ORP data has no meaning. Therefore, the reference scale used should always be specified in reporting or discussing the ORP data. ORP measurements converted to a hydrogen scale can be reported as "E_h". Data reported as the direct field measurement without correction might be described as "ORP referenced to Ag/AgCl electrode" or "$E_{Ag/AgCl}$". The expectations of the data user should be ascertained or the measurements should be reported in both systems.

To apply corrections to obtain E_h from the direct field measurement, the known half-cell potential of the reference electrode is added to the recorded field ORP value:

$$E_{h,sample} = ORP_{sample} + \text{half-cell potential of reference electrode}$$

The following table, reproduced from Section 2.2, presents the half-cell potential of a silver/silver chloride reference electrode at various temperatures and with various molarities of KCl filling solutions.

Table 1

Half-cell Potential of Ag/AgCl reference electrode

derived from USGS NFM, Table 6.5.2 (9/2005)

	Molarity of KCl filling solution			
T(°C)	3M	3.3M*	3.5M	Sat/4M
10	220	217	215	214
15	216	214	212	209
20	213	210	208	204
25	209	207	205	199
30	205	203	201	194
35	202	199	197	189
40	198	195	193	184

*interpolated value

Note: YSI sondes and Thermo electrodes typically use 4M KCl filling solutions. Eureka sondes typically use 3.3M KCl filling solutions

Example:

A multi-parameter probe with a silver/silver chloride reference electrode and 4M KCl filling solution is used to record a stream ORP measurement of 146mV. The stream temperature is recorded as 15°C.

From the above table, the half-cell potential of an Ag/AgCl reference electrode filled with 4M KCl is 209mV at 15°C. Then:

$$E_{h,sample} = ORP_{Ag/AgCl,sample} + \text{half-cell potential of Ag/AgCl reference electrode}$$

$$E_{h,sample} = 146mV + 209mV$$

$$E_{h,sample} = 355mV$$

As noted in Section 3.3, Measurement, ORP measurements are sensitive to temperature, and may be sensitive to pH. As the instruments do not compensate for these parameters, ORP data should always be reported with the temperature and pH of the media at the time of measurement.

Final reporting values of Eh or ORP should be rounded to the nearest 10mV. The following spreadsheet formula can perform the rounding of an interim result located in spreadsheet cell 'A1':

=INT(A1/10+0.5)*10

Region 4
U.S. Environmental Protection Agency
Science and Ecosystem Support Division
Athens, Georgia

OPERATING PROCEDURE

Title: **Field Measurement of Dissolved Oxygen**

Effective Date: January 8, 2014	**Number:** SESDPROC-106-R3

Author

Name: Hunter Johnson
Title: Environmental Engineer
Signature: _____ Date: 1/6/14

Approvals

Name: Danny France
Title: Chief, Enforcement and Investigations Branch
Signature: _____ Date: 1/6/14

Name: John Deatrick
Title: Chief, Ecological Assessment Branch
Signature: _____ Date: 1/6/14

Name: Bobby Lewis
Title: Field Quality Manager, Science and Ecosystem Support Division
Signature: _____ Date: 1/6/14

Revision History

The top row of this table shows the most recent changes to this controlled document. For previous revision history information, archived versions of this document are maintained by the SESD Document Control Coordinator on the SESD local area network (LAN).

History	Effective Date
SESDPROC-106-R3, *Field Measurement of Dissolved Oxygen*, replaces SESDPROC-106-R2 **General** Corrected any typographical, grammatical, and/or editorial errors. **Title Page** Changed Chief, Enforcement and Investigations Branch from Archie Lee to Danny France. Changed Chief, Ecological Assessment Branch from Bill Cosgrove to John Deatrick. Changed Field Quality Manager from Liza Montalvo to Bobby Lewis. **Revision History:** Changes were made to reflect the current practice of only including the most recent changes in the revision history. **Section 1.1**: In the last sentence, replaced "diffusion" with "reaeration." **Section 1.2:** Added the following statement: "Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use." **Section 2:** First Paragraph, Second Sentence: The phrase "taken to the field" was replaced with "utilized in the field". Third Paragraph: This paragraph, which discussed a 24 hour burn in period for Clarke Cell probes, was omitted. Fourth Paragraph: This paragraph, which discussed Winkler Titration, was omitted. **Section 3.1:** Converted part of the first paragraph into bulleted items. Omitted all language that referred to Winkler Titration. **Section 3.2:** Omitted all language that referred to Winkler Titration.	January 8, 2014
SESDPROC-106-R2, *Field Measurement of Dissolved Oxygen*, replaces SESDPROC-106-R1	February 12, 2010

SESDPROC-106-R1, *Field Measurement of Dissolved Oxygen*, replaces SESDPROC-106-R0	November 1, 2007
SESDPROC-106-R0, *Field Measurement of Dissolved Oxygen*, Original Issue	February 05, 2007

TABLE OF CONTENTS

1 General Information

1.1 Purpose

This document describes methods and considerations to be used and observed when conducting field measurements of dissolved oxygen in surface water, treated wastewater and in gas media for specific applications (e.g., reaeration measurement).

1.2 Scope/Application

On the occasion that SESD field investigators determine that any of the procedures described in this section are inappropriate, inadequate or impractical and that another method must be used to obtain a measurement of dissolved oxygen, the alternate procedure will be documented in the field log book, along with a description of the circumstances requiring its use. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

1.3 Documentation/Verification

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD Local Area Network (LAN). The Document Control Coordinator (DCC) is responsible for ensuring the most recent version of the procedure is placed on the LAN and for maintaining records of review conducted prior to its issuance.

1.4 References

SESD Operating Procedure for Equipment Inventory and Management, SESDPROC-108, Most Recent Version

SESD Operating Procedure for Logbooks, SESDPROC-010, Most Recent Version

SESD Field Branches Quality Management Plan, SESDPLAN-001, Most Recent Version

US EPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 SESD, Athens, GA, Most Recent Version

1.5 General Precautions

1.5.1 Safety

Refer to the SESD Safety, Health and Environmental Management Program Procedures and Policy Manual and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. When using this procedure, minimize exposure to potential health hazards through the use of protective clothing, eye wear and gloves. Address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

Appropriate precautions should be observed when working in and around bodies of water and on boats. Be aware of fast flowing waters, waterway obstructions such as dams, and other vessels on the water.

2 Quality Control

All dissolved oxygen meters will be maintained and operated in accordance with the manufacturer's instructions and the SESD Operating Procedure for Equipment Inventory and Management (SESDPROC-108). Before a meter is utilized in the field, it will be calibrated and verified, according to Section 3.2 of this procedure, to ensure it is operating properly. These calibration and verification checks will be documented and maintained in a logbook.

For in-situ measurements, an instrument warm-up period appropriate for that instrument should be provided. Consult manufacturer's documentation for appropriate warm-up time.

The ambient temperature in the immediate vicinity of the meter should be measured and recorded in the field logbook to insure the instrument is operated within the manufacturer's specified range of operating temperatures. For instruments that are deployed for in-situ measurements, the temperature of the medium being monitored should be measured and recorded in the logbook prior to deployment. *In-situ monitoring equipment may be utilized in unattended deployments where autonomous logging may preclude temperature measurement prior to deployment. Because in situ instrumentation generally has a wide range of operating temperature, the field investigator may utilize professional judgment in determining if the operating environment is suitable for unattended deployment.*

Following instrument use, an end check should be performed using one of the techniques described in Section 3.2 to quantify potential instrument drift during use.

If at any time during a field investigation, it appears that the environmental conditions could jeopardize the quality of the measurement results, the measurements will be stopped. This will be documented in the field logbook.

3 Field Measurement of Dissolved Oxygen

3.1 General

Dissolved oxygen can be defined as the volume of oxygen contained in a volume of water. The solubility of oxygen in water is dependant on the water temperature, salinity and pressure.

- As the temperature of the water decreases, the solubility of oxygen increases.
- As salinity increases, the solubility of oxygen decreases.
- As the pressure decreases (altitude increases), the solubility of oxygen decreases.

Several methods for measurement of dissolved oxygen in water are available utilizing a variety of technologies.. When measuring dissolved oxygen for compliance with the National Pollutant Discharge Elimination System (NPDES) Program, only approved methods will be used. Approved methods can be found in the Code of Federal Regulations (CFR) 40 CFR Part 136.

3.1.1 Clark Cell Probes

Clark cell probes utilize an oxygen permeable membrane that covers an electrolytic cell which consists of a cathode and an anode. The anode acts as a reference electrode. After passing through the permeable membrane, the oxygen is reduced by an applied potential voltage that is referenced to the anode. The reduction current at the cathode is directly proportional to the partial pressure of oxygen in liquid, expressed as %-air saturation. The concentration of oxygen, in mg/l, is calculated based on the %-air saturation reading and the solubility of oxygen in water at the sample temperature.

In general, sample collection using a DO probe requires only lowering the probe into the sample media and recording or logging the results. The probe should be lowered gently to prevent damage to the membrane and gently turned when initially lowered to remove any attached air bubbles. If the instrument requires the use of a stirrer, the stirrer should be turned on before recording any readings. Prior to use, the instrument should be calibrated and any manufacturer specified warm-up period should be observed.

3.1.2 Luminescent Probes

Luminescent dissolved oxygen probes employ a light emitting diode (LED) to provide incident light, which excites the oxygen-sensitive luminescent-dye molecule substrate of the sensor. After dissipation of the excitation energy, longer-wavelength light is emitted (luminescence). The magnitude of steady-state

luminescence (intensity) is measured by the sensor and is inversely proportional to the dissolved oxygen concentration.

Sample collection with this type of probe should follow the sample procedures described in the second paragraph of Section 3.1.2 for Clark Cell probes.

3.2 Calibration

Many brands of instruments are commercially available for *in-situ* measurement of dissolved oxygen using Clark cell probes and luminescent probes. The manufacturer's instruction manual should be consulted for specific procedures regarding their calibration, maintenance and use. Calibration of any measurement instrument must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate.

In general, calibrations should be conducted at temperatures and pressures as close as possible to those of the sample media for the most accurate measurements. Due to the sensitivity of dissolved oxygen measurements to changes in temperature, the temperature probe or thermistor should be verified using a NIST traceable thermometer prior to each calibration. Most dissolved oxygen meters utilize a one-point calibration which is generally performed using either water saturated air or air-saturated water. When using the water-saturated air method, the probes should be placed in a 100% relative humidity environment and the temperature and dissolved oxygen readings should be allowed to equilibrate. After equilibration, the meter should be set to read the appropriate dissolved oxygen concentration based on the temperature and barometric pressure.

When using air-saturated water for calibration, an aeration device such as an aquarium pump with a diffusion stone should be placed in a vessel containing tap water. The water in the vessel should be aerated for a minimum of one hour at a constant temperature. Saturation should be verified by placing the dissolved oxygen probe in the vessel and monitoring the temperature and dissolved oxygen readings for stabilization. Avoid placing the probe in the direct stream of air bubbles. Bubbles can accumulate on the probe surface and cause erroneous readings. Once the water is saturated, the temperature of the water and the barometric pressure can be used to determine the dissolved oxygen value. The meter can then be set to read that value.

3.3 Maintenance

Maintenance procedures vary depending on the technology utilized by each instrument and the manufacturer. The manufacturer's instruction manual should be consulted for instrument specific procedures. Following are some general guidelines for maintaining dissolved oxygen meters:

- Inspect probes for damage prior to use.

- For Clark cell probes, membranes and electrolyte solution should be changed prior to each study, when feasible.
- Battery voltages should be checked. For meters that will be deployed unattended, new or fully charged batteries should be used for each study.
- All calibration and maintenance procedures performed should be thoroughly documented.

3.4 Conducting Field Measurement of Dissolved Oxygen

Following are guidelines for conducting field measurements of dissolved oxygen:

- Except as described in specific operating procedures, dissolved oxygen measurements should if possible be conducted *in-situ*.
- When measuring DO at distinct points in the water column, the probe should be allowed to equilibrate at each location prior to recording the measurement.
- In water bodies with a great deal of flow, a weight may be attached to the probe guard or support cable to insure the probe is maintained at the proper depth.
- Insure that the measurement location is representative of conditions within the water body or reach. Avoid measurements directly below turbulent sections or still water unless these conditions represent most of the water body or reach.
- If DO measurements are conducted in saline water, the DO meter should either be capable of correcting for salinity or a separate instrument should be used to measure salinity so that the final DO measurements can be corrected.

3.5 Operational Check

A post-operation instrument verification check will be performed using one of the techniques described in Section 3.2 to quantify potential instrument drift during use. A verification check will be performed at the end of all measurements for a day or at the end of a deployment. The verification DO concentration will be measured and recorded in the field logbook prior to any instrument adjustment.

It may be appropriate to check the calibration of a DO meter periodically during the course of a day's measurements when conducting individual measurements rather than deploying an instrument. When this is done, it should be noted in the field logbook. The calibration of meters checked throughout the day maybe adjusted if drift is occurring.

Region 4
U.S. Environmental Protection Agency
Science and Ecosystem Support Division
Athens, Georgia

OPERATING PROCEDURE

Title: **Field Turbidity Measurement**

Effective Date: January 29, 2013 | **Number:** SESDPROC-103-R3

Authors

Name: Timothy Simpson
Title: Environmental Scientist
Signature: Timothy Simpson Date: 01/23/2013

Approvals

Name: Danny France
Title: Chief, Enforcement and Investigations Branch
Signature: Date: 1/23/13

Name: John Deatrick
Title: Chief, Ecological Assessment Branch
Signature: John Deatrick Date: 1/23/13

Name: Bobby Lewis
Title: Field Quality Manager, Science and Ecosystem Support Division
Signature: Date: 1/23/13

Revision History

This table shows changes to this controlled document over time. The most recent version is presented in the top row of the table. Previous versions of the document are maintained by the SESD Document Control Coordinator.

History	Effective Date
SESDPROC-103-R3, *Field Turbidity Measurement*, replaces SESDPROC-103-R2 **General:** Corrected any typographical, grammatical and/or editorial errors. **Cover Page:** The Author was changed from Ron Phelps to Timothy Simpson. The Enforcement and Investigations Branch Chief was changed from Antonio Quinones to Danny France. The FQM was changed from Laura Ackerman to Bobby Lewis. **Section 1.2:** Added the following statement: Mention of trade names or commercial products does not constitute endorsement or recommendation for use. **Section 1.3:** Omitted the reference to the H: drive of the LAN. **Section 1.5.1:** Updated the SHEMP Manual reference to reflect that the most recent version of the Manual will be used. **Section 2:** In the first paragraph, replaced "and" in the second sentence with "or". **Section 3.2:** Replaced "Meter" with "Instrument" in section title. Replaced the first paragraph with the following language: "Many brands of instruments are commercially available for the measurement of turbidity incorporating a wide variety of technologies. The manufacturer's instruction manual should be consulted for specific procedures regarding their calibration, maintenance and use. Calibration of any measurement instrument must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate. Depending on the instrument, the verification and calibration can differ slightly. If the instrument readings do not agree within ± 10 % of the calibration standards, the unit must be recalibrated, repaired or replaced. The following are basic guidelines for calibration/verification of meters and are provided as an example:" Removed section on calibration and verification of the HACH 2100P Turbidimeter. Added Section 3.2.1, Meter Calibration and Verification, that includes information on the calibration and verification of the 2100Q Turbidimeter. Replaced Section 3.3, Probe Calibration and Verification, with Section 3.2.1, Probe Calibration and Verification.	January 29, 2013

Section 3.3: Added "Depending on the meter, the sample measurement procedure can differ slightly." Converted Section 3.3 into Section 3.3.1, Grab Sample Measurement, and Section 3.3.2, *In-Situ* Measurement. **Section 3.3.1:** In Item #3 replaced "Press I/O and the instrument will turn on." with "Turn instrument on." In Item #5 and #6 added "If appropriate". In Item #8 added "or rinse out with sample water prior to the next reading". **Section 3.5:** Replaced the section with the following language: "Even though it is not necessary to re-calibrate turbidity meters at regular intervals during the day, depending on the instrument, it may be appropriate to occasionally perform operational checks to determine if site conditions, such as an increase in temperature, have impacted the meter's performance. If an operational check is warranted, the following procedure should be followed to ensure that the performance of the meter has not changed. While in use, periodically check the turbidity by rinsing the probe with de-ionized water, blot dry or otherwise remove excess rinse water and immerse it into the appropriate calibration standard. If the measured turbidity differs by ± 10 % (depending on the application) from the calibration standard, the meter must be re-calibrated. A post-operation instrument verification check will be performed using the appropriate standard(s) at the end of the day or after all measurements have been taken for a particular period of operation. These measurements must be recorded in the field logbook."	
SESDPROC-103-R2, *Field Turbidity Measurement*, replaces SESDPROC-103-R1 **Cover Page:** Author was changed from Marty Allen to Ron Phelps. **Revision History:** Changed Field Quality Manager to Document Control Coordinator. **Section 1.3:** Changed Field Quality Manager to Document Control Coordinator.	June 13, 2008

SESDPROC-103-R1, *Field Turbidity Measurement*, replaces SESDPROC-103-R0 **General** Deleted all references to SOSA. Updated referenced procedures due to changes in title names and/or to reflect most recent version. **Title Page** Changed title for Antonio Quinones from Environmental Investigations Branch to Enforcement and Investigations Branch. Changed Bill Cosgrove's title from Acting Chief to Chief. **Section 1.3** Updated information to reflect that procedure is located on the H: drive of the LAN. **Section 1.4** Alphabetized and revised the referencing style for consistency. **Section 2** Added last paragraph regarding stopping measurements due to environmental conditions. **Section 3.5** Re-phrased operational check 2 for clarity.	November 1, 2007
SESDPROC-103-R0, Field Turbidity Measurement, Original Issue	February 05, 2007

TABLE OF CONTENTS

1 General Information

1.1 Purpose

This document describes general and specific procedures, methods and considerations to be used and observed when conducting field turbidity measurements in aqueous phase environmental media, including groundwater, surface water and certain wastewaters.

1.2 Scope/Application

The procedures contained in this document are to be used by field personnel when measuring turbidity of various, aqueous phase environmental media in the field. On the occasion that SESD field personnel determine that any of the procedures described in this section cannot be used to obtain turbidity measurements of the media being sampled, and that another method or turbidity measurement instrument must be used to obtain said measurements, the variant instrument and measurement procedure will be documented in the field logbook, along with a description of the circumstances requiring its use. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

1.3 Documentation/Verification

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD local area network (LAN). The Document Control Coordinator is responsible for ensuring the most recent version of the procedure is placed on the LAN and for maintaining records of review conducted prior to its issuance.

1.4 References

SESD Operating Procedure for Equipment Inventory and Management, SESDPROC-108, Most Recent Version

SESD Operating Procedure for Logbooks, SESDPROC-010, Most Recent Version

United States Environmental Protection Agency (US EPA). 2001. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual. Region 4 Science and Ecosystem Support Division (SESD), Athens, GA

US EPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 SESD, Athens, GA, Most Recent Version

1.5 General Precautions

1.5.1 Safety

Proper safety precautions must be observed when conducting field turbidity measurements. Refer to the SESD Safety, Health and Environmental Management Program (SHEMP) Manual (Most Recent Version) and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. When using this procedure, minimize exposure to potential health hazards through the use of protective clothing, eye wear and gloves. Address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

1.5.2 Procedural Precautions

All field turbidity measurements pertinent to the sampling event should be recorded in the field logbook for the event. All records should be entered according to the procedures outlined in the SESD Operating Procedure for Logbooks (SESDPROC-010).

2 Quality Control

All turbidity meters and probes shall be maintained and operated in accordance with the manufacturer's instructions and the SESD Operating Procedure for Equipment Inventory and Management (SESDPROC-108). Before a meter or probe is taken to the field, it shall be properly calibrated or verified, according to Sections 3.2 and 3.3 of this procedure, to ensure it is operating properly. These calibration and verification checks shall be documented and maintained in a logbook.

The ambient temperature in the immediate vicinity of the meter should be measured and recorded in the field logbook to insure the instrument is operated within the manufacturer's specified range of operating temperatures. For instruments that are deployed for in-situ measurements, the temperature of the medium being monitored should be measured and recorded in the logbook prior to deployment. *In-situ monitoring equipment may be utilized in unattended deployments where autonomous logging may preclude temperature measurement prior to deployment. Because in situ instrumentation generally has a wide range of operating temperature, the field investigator may utilize professional judgment in determining if the operating environment is suitable for unattended deployment.*

If at any time during a field investigation, it appears that the environmental conditions could jeopardize the quality of the measurement results, the measurements will be stopped. This will be documented in the field logbook.

3 Field Turbidity Measurement Procedures

3.1 General

Turbidity is caused by suspended and colloidal matter such as clay, silt, organic and inorganic matter and microscopic organisms. Many methods are available for the measurement of turbidity including turbidimeters and optical probes. Turbidity is measured by determining the amount of scatter when a light is passed through a sample.

3.2 Instrument Calibration and Verification

Many brands of instruments are commercially available for the measurement of turbidity incorporating a wide variety of technologies. The manufacturer's instruction manual should be consulted for specific procedures regarding their calibration, maintenance and use. Calibration of any measurement instrument must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate. Depending on the instrument, the verification and calibration can differ slightly. If the instrument readings do not agree within ± 10 % of the calibration standards, the unit must be recalibrated, repaired or replaced. The following are basic guidelines for calibration/verification of meters and are provided as an example:

3.2.1 Meter Calibration and Verification

HACH 2100Q Turbidimeter:

Portable turbidimeters are calibrated with Formazin Primary Standards. The manufacturer recommends calibration with a primary standard such as StablCal® Stabilized Standards or with formazin standards every three months.

Generally only a calibration verification measurement is required in the field; however, if a calibration is needed, record a post calibration reading for each calibration standard used.

Meter Verification:

1. Push **Verify Cal** to enter the Verify menu.

2. Gently invert the liquid standard several times prior to insertion into meter. Insert the 10.0 NTU (or other defined value) Verification Standard and close the Lid.

3. Push **Read**. The display shows "Stabilizing" and then shows the result and tolerance range.

4. Push **Done** to return to the reading display. Repeat the calibration verification if the verification failed. If a meter is unable to pass verification, then that meter will need to be calibrated.

Meter Calibration:

1. Push the **CALIBRATION** key to enter the Calibration mode. Follow the instructions on the display. **Note:** Gently invert each standard several times before inserting the standard and use a non-abrasive, lint-free paper or cloth to wipe off the standards.

2. Insert the 20 NTU StablCal Standard and close the lid. Push **Read**. The display shows "Stabilizing" and then shows the result. Record the result.

3. Repeat Step 2 with the 100 NTU and 800 NTU StablCal Standard. Record both results.

4. Push **Done** to review the calibration details.

5. Push **Store** to save the results. After a calibration is complete, the meter automatically goes into the Verify Cal mode.

3.2.2 Probe Calibration and Verification

The manufacturer's instruction manual should be consulted for specific procedures regarding probe's calibration, maintenance and use. Their calibration must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate. The following are basic guidelines for calibration/verification of probes and are provided as an example:

1. Turn the meter "ON" and allow it to stabilize

2. Immerse the probe in the first standard solution and calibrate the probe against the solution.

3. Rinse the probe with de-ionized water, remove excess rinse water and calibrate the probe using additional standards as appropriate.

4. Record the standard values used to calibrate the meter.

3.3 Sample Measurement Procedures

Depending on the meter, the sample measurement procedure can differ slightly.

3.3.1 Grab Sample Measurement

These procedures should be followed when conducting turbidity measurements of grab samples:

1. Collect a representative sample and pour off enough to fill the cell to the fill line (about 15 mL) and replace the cap on the cell.

2. Wipe off excess water and any streaks with a soft, lint-free cloth (lens paper).

3. Turn instrument on. Place the meter on a flat, sturdy surface. Do not hold the instrument while making measurements.

4. Insert the sample cell in the instrument so the diamond or orientation mark aligns with the raised orientation mark in the front of the cell compartment. Close the lid.

5. If appropriate, select manual or automatic range selection by pressing the range key.

6. If appropriate, select signal averaging mode by pressing the Signal Average key. Use signal average mode if the sample causes a noisy signal (display changes constantly).

7. Press Read. The display will show ---- NTU. Then the turbidity is displayed in NTU. Record the result after the lamp symbol turns off.

8. Rinse the cell with de-ionized water or rinse out with sample water prior to the next reading.

3.3.2 In-Situ Measurement

These procedures should be followed when conducting in-situ turbidity measurements:

1. Place the probe into the media to be measured and allow the turbidity reading to stabilize. Once the reading has stabilized, record the measurement in the logbook.

2. When deploying meters for extended periods of time, ensure the measurement location is representative of average media conditions.

3.5 Operational check

Even though it is not necessary to re-calibrate turbidity meters at regular intervals during the day, depending on the instrument, it may be appropriate to occasionally perform operational checks to determine if site conditions, such as an increase in temperature, have impacted the meter's performance. If an operational check is warranted, the following procedure should be followed to ensure that the performance of the meter has not changed.

While in use, periodically check the turbidity by rinsing the probe with de-ionized water, blot dry or otherwise remove excess rinse water and immerse it into the appropriate calibration standard. If the measured turbidity differs by ± 10 % (depending on the application) from the calibration standard, the meter must be re-calibrated.

A post-operation instrument verification check will be performed using the appropriate standard(s) at the end of the day or after all measurements have been taken for a particular period of operation. These measurements must be recorded in the field logbook.

3.6 Units

Turbidity measurements are reported in nephelometric turbidity units (NTUs). It is important to note that if the turbidity measurements are for NPDES reporting purposes, all values above 40 NTU must be diluted with turbidity free-water and calculated by multiplying by a dilution factor.

Region 4
U.S. Environmental Protection Agency
Science and Ecosystem Support Division
Athens, Georgia

OPERATING PROCEDURE

Title: **Global Positioning System**

Effective Date: April 20, 2011 | **Number:** SESDPROC-110-R3

Authors

Name: Jonathan Vail
Title: Environmental Scientist, Regional Expert
Signature: J Vail Date: 4/14/2011

Name: Mel Parsons
Title: Life Scientist
Signature: Mel Parsons Date: 4/14/11

Name: Brian Striggow
Title: Environmental Engineer
Signature: Date: 4/18/11

Approvals

Name: Archie Lee
Title: Chief, Enforcement and Investigations Branch
Signature: Date: 4/14/11

Name: Bill Cosgrove
Title: Chief, Ecological Assessment Branch
Signature: Date: 4/14/11

Name: Liza Montalvo
Title: Field Quality Manager, Science and Ecosystem Support Division
Signature: Date: 4/14/11

Revision History

This table shows changes to this controlled document over time. The most recent version is presented in the top row of the table. Previous versions of the document are maintained by the SESD Document Control Coordinator.

History	Effective Date
SESDPROC-110-R3, *Global Positioning System*, replaces SESDPROC-110-R2 **Cover Page:** The EIB Branch Chief was changed from Antonio Quinones to Archie Lee. The FQM was changed from Laura Ackerman to Liza Montalvo. **Revision History:** Changed Field Quality Manager to Document Control Coordinator. **Section 1.2:** Added the following statement: Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use. **Section 1.3:** Omitted the reference to the H: drive of the LAN. Changed Field Quality Manager to Document Control Coordinator.	April 20, 2011
SESDPROC-110-R2, *Global Positioning System*, replaces SESDPROC-110-R01 **Title Page** Changed title for Antonio Quinones from Environmental Investigations Branch to Enforcement and Investigations Branch. Changed Bill Cosgrove's title from Acting Chief to Chief. **Section 1.4** Alphabetized and added a reference.	November 1, 2007
SESDPROC-110-R1, *Global Positioning System*, replaces SESDPROC-110-R0 This revision reflects the following changes: **General** Extensive rewrite with additional information added to most sections. Brian Striggow added as coauthor. **Section 2.1** Rewritten description of GPS system. Descriptions of "GPS Accuracy Factors" and "Differential GPS" isolated as separate subsections.	October 1, 2007

Section 2.2 This Section, titled "Requirements for Locational Information" inserted. Supplies guidance on accuracy requirements for various study types and potential means used to obtain requisite accuracy. Subsection on datums and data formats included. **Section 2.3** "Quality Control Procedures", previously numbered as Section 2.2. Most information in this section moved to Section 2.1 discussion of Accuracy Factors and Section 2.4 discussion of specific receivers. Explicit statement added that no specific GPS quality control procedures are required for most SESD studies. **Section 2.4** Information added to sections on Trimble and Garmin receivers. **Section 2.5** Issue of electronic data-logging addressed. Storage of electronic data records addressed.	
SESDPROC-110-R0, Global Positioning System, Original Issue	March 22, 2007

TABLE OF CONTENTS

Contents

1 General Information

1.1 Purpose

This document describes the Global Positioning System (GPS) and procedures, methods and considerations to be used and observed when using GPS to record location data in the field. Guidance is provided on accuracy requirements for various uses of location data and potential means to obtain the requisite accuracy. This document contains direction developed solely to provide internal guidance to SESD employees.

1.2 Scope/Application

The procedures contained in this document are to be used by SESD field investigators when using the Global Positioning System to obtain the geographical coordinates of sampling locations and/or measurements during field investigations. In SESD investigations, GPS is the preferred means of collecting horizontal location information. In most cases the accuracy of GPS is unsuitable for collection of elevation data.

On the occasion that SESD field personnel determine that any of the procedures described in this section cannot be used to obtain the required coordinate information and alternate procedures are employed, the alternate procedure will be documented in the field log book, along with a description of the circumstances requiring its use. GPS users must be currently qualified as proficient in the operation of the specific GPS equipment to be used. The manufacturer's operation manuals should be used for detailed information on the use of specific GPS equipment. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

1.3 Documentation/Verification

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD local area network (LAN). The Document Control Coordinator is responsible for ensuring the most recent version of the procedure is placed on the LAN and for maintaining records of review conducted prior to its issuance.

1.4 References

Rand Corporation, The Global Positioning System, Assessing National Policies, Appendix B, GPS History, Chronology, and Budgets, 1995.

SESD Operating Procedure for Control of Records, SESDPROC-002, Most Recent Version.

Trimble® Navigation Limited, Mapping Systems General Reference, Revision B, 1996.

USEPA, Global Position Systems – Technical Implementation Guidance, Office of Environmental Information (EPA/250/R-03/001), 2003.

USEPA, GIS Technical Memorandum 3. Global Positioning Systems – Technology and It's Application in Environmental Programs, Research and Development (PM-225). EPA/600/R-92/036, 1992.

USEPA, Locational Data Policy, Office of Information Resources Management, IRM Policy Manual 2100 Chapter 13, 1991.

2 Methodology

2.1 General

2.1.1 GPS Description

The Navigation Satellite Time and Ranging (NAVSTAR) Global Positioning System (GPS) is a worldwide radio-navigation system created by the U. S. Department of Defense (DOD) to provide navigation, location, and timing information for military operations. System testing using a limited number of satellites began in 1978 with the system being declared fully operational in 1995. The system was declared available for civilian uses in the 1980s and has seen burgeoning civilian application for navigation and mapping.

The GPS system consists of three basic elements: the space segment, control segment, and user segment. The space segment consists of the constellation of up to 24 active NAVSTAR satellites in six orbital tracks. The satellites are not in geo-synchronous orbit and are in constant motion relative to a ground user. The control segment consists of several ground stations that serve as uplinks to the satellites and that make adjustments to satellite orbits and clocks when necessary. The user segment consists of the GPS receiver which will typically consist of an antenna, multi-channel receiver, and processing unit.

For the purposes of this document, the user segment GPS receivers may be loosely grouped into Recreational and Navigational receivers (henceforth referred to as General Use receivers), Mapping Grade receivers, and Survey Grade receivers.

- Most General Use grade receivers are available on the retail market to consumers for a variety of applications including boating, hiking, and automotive navigation. They display an instantaneous reading of position and are generally not optimized for data collection. Waypoints containing instantaneous position fixes can often be stored and downloaded. The accuracy of these receivers is adequate for many environmental applications.

- Mapping Grade receivers are used for applications such as resource management and Geographical Information System (GIS) feature collection. The receivers are capable of averaging multiple position fixes for greater accuracy and then data-logging the results with sufficient information to post-correct the positions as described below. The potential accuracy that can be achieved may be better than one meter.

- Survey Grade receivers can provide accuracy at the centimeter level by using long occupation times and special techniques for receiver use and data processing. Survey Grade receivers are not used by SESD in field investigations.

GPS receivers derive positions by simultaneously measuring the distance (range) to several satellites in precisely known orbits, and using triangulation of the ranges to calculate a unique position for the receiver. The range to each satellite is determined by precisely measuring the transit time of radio signals broadcast from the satellites.

2.1.2 GPS Accuracy Factors

The accuracy of the basic GPS system is approximately 15m. GPS accuracy can be affected by a number of factors including the Selective Availability feature, atmospheric delays, satellite clock and orbit errors, multipath signals, signal strength, and satellite geometry relative to the user.

In the early GPS implementation, the DOD used a feature known as Selective Availability (SA) to degrade the quality and subsequent accuracy of the GPS signals to non-DOD users. With Selective Availability enabled, accuracy of position fixes could be as poor as 100m without the use of differential correction techniques described below. Currently there is no SA limitation in accuracy in place with a stated Executive Branch intention to not return to the use of the SA signal degradation.

As satellites move in their orbits and some signals are blocked by obstructions, the geometry of the available satellite signals relative to the user will constantly change. When the satellites with available signals are clustered closely together in the sky, small errors in range will result in large errors in reported position. Conversely, when the satellites are distributed more broadly across the sky, the resultant position errors will be at their minimum. The general measure of this phenomenon is Dilution of Precision (DOP), which may be represented as Position Dilution of Precision (PDOP), or more specifically for geographical coordinate collection, Horizontal Dilution of Precision (HDOP). Mapping and Survey Grade receivers generally can calculate and display DOP and allow the user to limit logging to times when the higher potential accuracy conditions of low DOP prevail. General Use receivers may display DOP and use DOP with other factors to estimate a general accuracy figure. DOP may range from approximately 2 to 50, with high quality work usually requiring a HDOP of less than 4-6.

Signal strength and multipath signals relate to the strength and quality of the signal reaching the receiver antenna. Signal attenuation by the atmosphere, buildings, and tree cover limit the accuracy of the ranges obtained. The measure of signal strength is Signal to Noise Ratio (SNR), generally measured in decibels(db). Most receivers of any grade will display the SNR of the satellite signals in a bar graph or table. Mapping Grade Receivers generally allow the user to specify a minimum signal strength for the use of a satellite signal (commonly 2-15db). Poor signal strength can be resolved by waiting for satellite locations to change or moving the receiver location. Multipath signals result

from portions of the satellite signal bouncing off terrain, structures, or atmospheric disturbances, resulting in a degraded total signal. Higher quality Mapping Grade receivers may be capable of rejecting the stray multipath signals, such as Trimble® receivers using Everest™ technology.

2.1.3 Differential GPS

Selective Availability, clock errors, and orbital errors affect all GPS users and atmospheric delays affect all users over a relatively wide region. A second GPS receiver in the same general area as the user will experience the same errors from these sources as the user's receiver. Consequently, correction factors from a remote station at a known location can be applied to the user's receiver in a process known as Differential GPS (DGPS). DGPS can be applied in real-time using additional radio signals, or after the collection event by a method called post-correction.

Real-time DGPS uses established networks of base stations at precisely surveyed locations. The US Coast Guard operates a system of 80 base stations which became fully operational in 1999. The range corrections are broadcast on marine radiobeacon frequencies, with redundant coverage of most of the US coastline and the Mississippi River. There is near complete single beacon coverage of most of the internal US, but there are known gaps in coverage in both EPA Region 4 and the US as a whole. The system is sometimes referred to using the more general term DGPS or in nomenclature referring to the beacon-based nature of the system. Beacon-based DGPS is implemented primarily in Navigational and Mapping Grade receivers.

Real-time DGPS can also be implemented with a Space Based Augmentation System (SBAS). The most common SBAS currently used in the United States is the Wide Area Augmentation System (WAAS), developed by the Federal Aviation Administration to meet the additional demands on GPS for aircraft navigation. The WAAS network of base stations collects information on satellite clock errors, orbital errors, and atmospheric conditions. The error information is transferred to satellites in geo-synchronous orbits and subsequently broadcast to suitably equipped GPS receivers on frequencies compatible with the GPS range signals. While beacon-based DGPS passes range corrections to the receivers, WAAS communicates a model for the errors which is capable of providing more accurate corrections. Current Mapping Grade receivers will likely use WAAS with or without the option of beacon-based DGPS. All but the least expensive General Use receivers are generally equipped with WAAS differential correction capability.

Post-Corrected DGPS is generally accomplished by downloading the receiver survey files to a desktop or laptop computer and then retrieving correction files for the same time period (generally via the internet) from an established base station in the area of the survey. Post-processed accuracy improves with proximity of the base station to the surveyed locations and base station data should be used from a station within 300km of the site surveyed. The survey positions are processed by application software and a new

set of positions is generated using the correction data. The capability for post-processed differential correction is generally limited to Mapping Grade and Survey Grade receivers.

Various factors limit GPS accuracy in the vertical plane to approximately half of that obtainable in the horizontal plane, i.e., if a location fix is accurate to 3 m in the horizontal plane, it may only be accurate to 6 m in the vertical plane. Since relatively high accuracy is usually required for the uses of elevation data, GPS is rarely used to obtain and report elevations.

2.2 Requirements for Locational Information

2.2.1 Data Uses

Locational information can serve many purposes in an environmental investigation, a few of which are listed below:

1. Providing an unambiguous means to identify facilities or sampling plats.
2. Providing locational information to key analytical data in a GIS based data archiving system to the original sampling locations.
3. Differentiating watersheds.
4. Providing information to calculate extents and volumes of contamination.
5. Providing a means to relocate the media represented by samples for removal or treatment.
6. Providing information to prepare presentation graphics of sampling locations.

Depending on the specific uses for the data and the type of work being performed, there will be different needs for the accuracy of the locational data. Studies where a sample represents a large area of relatively homogeneous material would not require the same accuracy as the location of a permanent monitoring well. Below are broad guidelines for the accuracy that might be required for different applications.

Desired Accuracy	**Application**
100 m	Open ocean work where sample is presumed to be representative of a large area
20 m	Open water work (lakes or estuaries) where sample is presumed to be representative of a large area
10 m	Stream and river work where samples are presumed to be broadly representative of a reach
5-3 m	Stream work where samples are representative of a specific narrowly defined section

10 m	Air Monitoring Stations
10 - 3 m	Microscale air monitoring
3 - 1 m	Permanent monitoring wells
1 m	Locations of 'Hot Spots' destined for removal of limited areal extent
3 - 1 m	Locations of Temporary groundwater wells in plumes requiring narrow delineation
3 m	Locations of Temporary groundwater wells in broad plumes
3 m	Locations of environmental samples with sample spacing >20 m
5 m	Locations of environmental samples with sample spacing >60 m
200 - 20 m	Coordinates describing a facility where mobile waste units are sampled
30 - 3 m	Locations of industrial process areas or NPDES permitted facilities where the sampling locations are described in field notes relative to the process or site features

Specific demands of a study may drive increased or decreased requirements for accuracy. The preferred means of locational data collection for most studies will be GPS, although alternate means are permissible if they meet accuracy requirements. The following table indicates the accuracy that may be expected from various means of establishing coordinates.

Accuracy	**Description**
200 - 50 m	Map Derived, coarse work
40 - 20 m	Map Derived, fine work or using GIS with digital imagery
15 m	General Use Grade GPS, w/o WAAS
5 m	General Use Grade GPS, w/ WAAS or beacon corrections
10 m	Mapping Grade GPS, no corrections, averaged readings,
3 m	Mapping Grade GPS w/ differential correction, averaged readings
1 m	Mapping Grade GPS w/ differential correction, controlled DOP and SNR, averaged readings
10 cm	Surveying Grade GPS or optical surveying (dependent on baseline length)

Accuracy is a term used to describe the degree of conformity of a measurement. In GPS, accuracy is usually specified as an estimate of the radius from the measured coordinates that is likely to include the actual coordinates. The estimate is based on several standard deviations probability of including the actual point in the measurement. As such, it is recognized that some measurements will fall outside of the specified accuracy. For the purposes of SESD GPS work, the nominal accuracy figures derived from manufacturer's literature for specific operating conditions, displayed by the receiver at the time of feature collection, or output from processing software will be taken at face value.

2.2.2 Datums and Data formats

In general, a datum is a reference from which other measurements are taken. In the development of surveying systems by civil entities, different datums were used as base references that will result in differing coordinates for the same location. A GPS receiver will generally display coordinates in a number of different user-selected datums. **Unless there are specific requirements on a project, all SESD work should be conducted using the WGS84 datum. A**lternatively, the nearly equivalent NAD83 datum may be used if WGS84 is unavailable as a receiver option. If an alternate coordinate system is used where coordinates are obtained and recorded in field logbooks, the use of the alternate coordinate system should also be noted in the logbook.

The SESD Data Archival and Retrieval System (DART) requires that coordinates for sample locations be entered in the WGS84 datum and dd.dddddd format. Unless specific project requirements dictate otherwise, all coordinates explicitly stated in reports will be in WGS84 format and in all cases the datum used will be specified.

There is no SESD policy on significant digits for GPS information, and accuracy should not be implied from the presence of significant digits in reported coordinates. However, good scientific practice should be followed in the presentation of locational information in order that useful information not be truncated or a higher degree of accuracy implied. The following table shows the incremental distance in latitude represented by the least significant digit for various coordinate formats:

dd.dddddd°	Approximately 4" or 10 cm
dd.ddddd°	Approximately 44" or 1.1 m
dd.dddd°	Approximately 36' or 11 m
dd°mm'ss"	Approximately 100' or 30 m
dd°mm'ss.x"	Approximately 10' or 3 m
dd°mm'ss.xx"	Approximately 1' or 30 cm
dd°mm.xxxx'	Approximately 7" or 18 cm
dd°mm.xxx'	Approximately 6' or 1.8 m
dd°mm.xx'	Approximately 60' or 18 m

2.3 Quality Control Procedures

By nature of its origin in the DOD and recent application to aircraft navigation, the GPS is designed for high reliability. GPS failures resulting in an incorrect reading beyond the bounds of known errors are so rare that the possibility can be ignored for most SESD studies. If a study requires the verification of receiver function, this can be accomplished by verifying that a receiver displays the correct position while occupying a known benchmark.

2.4 Special Considerations

The application will dictate the type of receiver used. There are several specific considerations for the use of the various receiver types.

2.4.1 Special considerations for the use of Trimble® Mapping Grade Receivers

The suggested settings for Trimble® receivers are:

1. Position mode: Overdetermined 3D (or manual 3D if only 4 satellites are visible)
2. Elevation mask: 15 degrees
3. PDOP: 6
4. Signal to noise ratio (SNR) mask: 6
5. Dynamics code: Land
6. Logging interval: 1 second for points, 5 seconds for lines and areas
7. Audible click: Yes
8. Log DOP data: Yes
9. Coordinate System: Geographic Datum WGS84

When using Trimble® Geoexplorer receivers, the option of using the accuracy 'slider bar' display may be used to consolidate many of the above parameters. The slider bar position must be positioned at midscale or towards the 'Precision' end of the scale to achieve 1m accuracy work. When conducting work requiring less accuracy, the slider should be initially positioned midscale and may be adjusted toward the Production' end of the scale if the higher level of accuracy can not be maintained.

The receivers may be configured to force real-time position correction. The use of real-time correction reduces the risk of being unable to obtain appropriate post-correction files, but may limit productivity when differential signals cannot be

received or are intermittent. The use of forced real-time vs. post-correction is an operator decision. If the positions are not to be downloaded and the accuracy of differential correction is required, it will be necessary to force real-time correction.

Trimble® receivers at SESD contain a data dictionary that can facilitate the management of GIS data. If the COC_GIS dictionary is selected at the time of file creation, SESD standard media codes can be assigned to features at the time of logging that will accompany the data through the download process. The use of the COC_GIS data dictionary can simplify the management of the data when processed in a GIS system or when entered into the DART system.

The logging interval of most Trimble® GPS receivers defaults to a 5 second interval. This may be changed to a 1 second interval to expedite feature collection. A point feature should have a minimum of 36 positions logged to obtain the additional accuracy afforded by averaging positions. After a minimum of 36 positions are logged and the feature is closed, the averaged position can be obtained by selecting the feature on the 'Map' screen. The averaged position should always be the one entered into field notebooks.

Some Trimble® receivers may only display data in dd°mm'ss.sss" format. If the coordinates are downloaded and processed through Pathfinder Office software, they can be output in the dd.dddddd (or any other) format. If the coordinates were only recorded in field logbooks, they can be converted to decimal degrees as follows:

Converting to decimal degrees (dd.dddddd) from degrees°minutes'seconds" (dd°mm'ss.sss"):

dd.dddddd = dd + (mm/60) + (ss.sss/3600)

Example: Convert 33°28'45.241" to decimal degrees

33 + (28/60) + (45.241/3600) = 33.479236

The reverse conversion is accomplished as follows:

Converting to degrees°minutes'seconds" from decimal degrees

Starting with dd.dddddd

Multiply .dddddd by 60 to obtain mm.mmmm

Multiply .mmmm by 60 to obtain ss.sss

Then dd°mm'ss.sss" = dd & mm & ss.sss

Example: Convert 33.479236 to dd°mm'ss.sss" format

Multiply .479236 by 60 to obtain 28.7540 (mm.mmmm)

Multiply .7540 by 60 to obtain 45.241 (ss.sss)

Dd°mm'ss.sss" = 33° & 28' & 45.241" = 33°28'45.241"

2.4.2 Special considerations for the use of Garmin® General Use Grade Receivers

The standard format for navigational purposes is decimal minutes (dd°mm.mmm'). This format is utilized due to the fact that nautical navigation charts are set up in this format. However, location information must be converted to a decimal degree (dd.ddddd°) format in order for GIS software to properly interpret the information. The conversion is accomplished by dividing the minutes portion of the coordinates by 60.

Converting to decimal degrees from decimal minutes:

dd.ddddd° = dd + (mm.mmm/60)

Example: Convert 81°49.386 degrees to decimal degrees

81 + (49.386/60) = 81.8231 degrees

The reverse conversion is accomplished as follows:

dd°mm.mmm' = dd & (.ddddd*60)

Example: Convert 81.8231 degrees to decimal minutes (dd°mm.mmm')

Multiply .8231 by 60 to obtain 49.386 (mm.mmm)

81° & 49.386' = 81°49.386'

GPS users need to familiarize themselves with the differences between the two formats, as they appear similar. Spreadsheets can automate the conversion process.

2.5 Records

The GPS coordinates and the SESD equipment identification number of the GPS receiver should be recorded in field logbooks at the time of GPS coordinate collection. The data logging capability of receivers may be used in lieu of the requirement to record the coordinates in logbooks when the following conditions can be met:

1. The location can easily be found later if it needs to be resurveyed prior to demobilization. A permanent monitoring well can easily be resurveyed, while most open-water work would not afford this opportunity.

2. The data is downloaded and ascertained to meet the accuracy requirements for the project prior to demobilization from the site.

3. The data is stored in at least two separate locations for transport, such as a laptop hard drive and a flash drive or compact disc.

In all cases where positions are electronically recorded, the provisions of the Electronic Records section of the SESD Operating Procedure for Control of Records (SESDPROC-002) should be followed.

Where locational data is collected and processed electronically, but not reported explicitly in the final report, a copy of the coordinates in text format should be output and entered into the project file in paper or electronic form. The output should include:

1. Latitude, generally in dd.dddddd format.

2. Longitude, generally in dd.dddddd format.

3. Date of collection.

4. DOP information where it supports the accuracy requirements.

5. Correction status of each point where it supports the accuracy requirements.

6. The datum used for the export.

Trimble® Pathfinder Office will create files with this information by exporting to a text file. The information will be contained in the .pos and .inf files.

Region 4
U.S. Environmental Protection Agency
Science and Ecosystem Support Division
Athens, Georgia

OPERATING PROCEDURE

Title: **Groundwater Sampling**

Effective Date: March 6, 2013	**Number:** SESDPROC-301-R3

Authors

Name: Jonathan Vail
Title: Environmental Scientist, Regional Expert
Signature: Date: 3/4/2013

Approvals

Name: Danny France
Title: Chief, Enforcement and Investigations Branch
Signature: Date: 3/4/13

Name: Bobby Lewis
Title: Field Quality Manager, Science and Ecosystem Support Division
Signature: Date: 3/4/13

Revision History

The top row of this table shows the most recent changes to this controlled document. For previous revision history information, archived versions of this document are maintained by the SESD Document Control Coordinator on the SESD local area network (LAN).

History	Effective Date
SESDPROC-301-R3, Groundwater Sampling, replaces SESDPROC-301-R2. **General:** Corrected any typographical, grammatical and/or editorial errors. **Title Page:** Changed author from Donald Hunter to Jonathan Vail. Changed Enforcement and Investigations Branch Chief from Archie Lee to Danny France. **Revision History:** Changes were made to reflect the current practice of only including the most recent changes in the revision history. **Section 2.3**: Item 4 was revised to reflect practice of using individual single-use preservative vials instead of preservatives prepared by ASB.	**March 6, 2013**
SESDPROC-301-R2, Groundwater Sampling, replaces SESDPROC-301-R1.	**October 28, 2011**
SESDPROC-301-R1, Groundwater Sampling, replaces SESDPROC-301-R0.	**November 1, 2007**
SESDPROC-301-R0, Groundwater Sampling, Original Issue	**February 05, 2007**

TABLE OF CONTENTS

1 General Information

1.1 Purpose

This document describes general and specific procedures, methods and considerations to be used and observed when collecting groundwater samples for field screening or laboratory analysis.

1.2 Scope/Application

The procedures contained in this document are to be used by field personnel when collecting and handling groundwater samples in the field. On the occasion that SESD field personnel determine that any of the procedures described are either inappropriate, inadequate or impractical and that another procedure must be used to obtain a groundwater sample, the variant procedure will be documented in the field logbook, along with a description of the circumstances requiring its use. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

1.3 Documentation/Verification

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD Local Area Network (LAN). The Document Control Coordinator (DCC) is responsible for ensuring the most recent version of the procedure is placed on the LAN and for maintaining records of review conducted prior to its issuance.

1.4 References

Columbia Analytical Services, Lab Science News, Passive Diffusion Devices & Polyethylene Diffusion Bag (PDB) Samplers.

International Air Transport Authority (IATA). Dangerous Goods Regulations, Most Recent Version

Puls, Robert W., and Michael J. Barcelona. 1989. Filtration of Ground Water Samples for Metals Analysis. Hazardous Waste and Hazardous Materials 6(4), pp.385-393.

Puls, Robert W., Don A. Clark, and Bert Bledsoe. 1992. Metals in Ground Water: Sampling Artifacts and Reproducibility. Hazardous Waste and Hazardous Materials 9(2), pp. 149-162.

SESD Guidance Document, Design and Installation of Monitoring Wells, SESDGUID-001, Most Recent Version

SESD Operating Procedure for Control of Records, SESDPROC-002, Most Recent Version

SESD Operating Procedure for Sample and Evidence Management, SESDPROC-005, Most Recent Version

SESD Operating Procedure for Logbooks, SESDPROC-010, Most Recent Version

SESD Operating Procedure for Field Sampling Quality Control, SESDPROC-011, Most Recent Version

SESD Operating Procedure for Field pH Measurement, SESDPROC-100, Most Recent Version

SESD Operating Procedure for Field Specific Conductance Measurement, SESDPROC-101, Most Recent Version

SESD Operating Procedure for Field Temperature Measurement, SESDPROC-102, Most Recent Version

SESD Operating Procedure for Field Turbidity Measurement, SESDPROC-103, Most Recent Version

SESD Operating Procedure for Groundwater Level and Well Depth Measurement, SESDPROC-105, Most Recent Version

SESD Operating Procedure for Management of Investigation Derived Waste, SESDROC-202, Most Recent Version

SESD Operating Procedure for Pump Operation, SESDPROC-203, Most Recent Version

SESD Operating Procedure for Field Equipment Cleaning and Decontamination, SESDPROC-205, Most Recent Version

SESD Operating Procedure for Field Equipment Cleaning and Decontamination at the FEC, SESDPROC-206, Most Recent Version

SESD Operating Procedure for Potable Water Supply Sampling, SESDPROC-305, Most Recent Version

The Interstate Technology & Regulatory Council, Technology Overview of Passive Sampler Technologies, Prepared by The Interstate Technology & Regulatory Council Diffusion Sampler Team, March 2006.

United States Environmental Protection Agency (US EPA). 1975. Handbook for Evaluating Water Bacteriological Laboratories. Office of Research and Development (ORD), Municipal Environmental Research Laboratory, Cincinnati, Ohio.

US EPA. 1977. Sampling for Organic Chemicals and Microorganisms in the Subsurface. EPA-600/2-77/176.

US EPA. 1978. Microbiological Methods for Monitoring the Environment, Water and Wastes. ORD, Municipal Environmental Research Laboratory, Cincinnati, Ohio.

US EPA. 1981. "Final Regulation Package for Compliance with DOT Regulations in the Shipment of Environmental Laboratory Samples," Memo from David Weitzman, Work Group Chairman, Office of Occupational Health and Safety (PM-273), April 13, 1981.

US EPA. 1995. Ground Water Sampling - A Workshop Summary. Proceedings from the Dallas, Texas November 30 – December 2, 1993 Workshop. ORD, Robert S. Kerr Environmental Research Laboratory. EPA/600/R-94/205, January 1995.

US EPA. Analytical Support Branch Laboratory Operations and Quality Assurance Manual. Region 4 SESD, Athens, GA, Most Recent Version

US EPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 SESD, Athens, GA, Most Recent Version

1.5 General Precautions

1.5.1 Safety

Proper safety precautions must be observed when collecting groundwater samples. Refer to the SESD Safety, Health and Environmental Management Program (SHEMP) Procedures and Policy Manual and any pertinent site-specific Health and Safety Plans (HASP) for guidelines on safety precautions. These guidelines should be used to complement the judgment of an experienced professional. Address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

1.5.2 Procedural Precautions

The following precautions should be considered when collecting groundwater samples.

- Special care must be taken not to contaminate samples. This includes storing samples in a secure location to preclude conditions which could alter the properties of the sample. Samples shall be custody sealed during long-term storage or shipment.
- Always sample from the anticipated cleanest, i.e., least contaminated location, to the most contaminated location. This minimizes the opportunity for cross-contamination to occur during sampling.
- Collected samples must remain in the custody of the sampler or sample custodian until the samples are relinquished to another party.

- If samples are transported by the sampler, they will remain under his/her custody or be secured until they are relinquished.
- Shipped samples shall conform to all U.S. Department of Transportation (DOT) rules of shipment found in Title 49 of the Code of Federal Regulations (49 CFR parts 171 to 179), and/or International Air Transportation Association (IATA) hazardous materials shipping requirements found in the current edition of IATA's Dangerous Goods Regulations.
- Documentation of field sampling is done in a bound logbook.
- Chain-of-custody documents shall be filled out and remain with the samples until custody is relinquished.
- All shipping documents, such as air bills, bills of lading, etc., shall be retained by the project leader and placed in the project files.

2 Special Sampling Considerations

2.1 Volatile Organic Compounds (VOC) Analysis

Groundwater samples for VOC analysis must be collected in 40 ml glass vials with Teflon® septa. The vial may be either preserved with concentrated hydrochloric acid or they may be unpreserved. Preserved samples have a two-week holding time, whereas unpreserved samples have only a seven-day holding time. In the great majority of cases, the preserved vials are used to take advantage of the extended holding time. In some situations, however, it may be necessary to use the unpreserved vials. For example, if the groundwater has a high amount of dissolved limestone, i.e., is highly calcareous, there will most likely be an effervescent reaction between the hydrochloric acid and the water, producing large numbers of fine bubbles. This will render the sample unacceptable. In this case, unpreserved vials should be used and arrangements must be confirmed with the laboratory to ensure that they can accept the unpreserved vials and meet the shorter sample holding times.

The samples should be collected with as little agitation or disturbance as possible. The vial should be filled so that there is a meniscus at the top of the vial and absolutely no bubbles or headspace should be present in the vial after it is capped. After the cap is securely tightened, the vial should be inverted and tapped on the palm of one hand to see if any undetected bubbles are dislodged. If a bubble or bubbles are present, the vial should be topped off using a minimal amount of sample to re-establish the meniscus. Care should be taken not to flush any preservative out of the vial during topping off. If, after topping off and capping the vial, bubbles are still present, a new vial should be obtained and the sample re-collected.

Samples for VOC analysis must be collected using either stainless steel or Teflon® equipment, such as:

- Bailers must be constructed of stainless steel or Teflon®
- RediFlo2® submersible pumps used for sampling should be equipped with Teflon® sample delivery tubing
- Peristaltic pump/vacuum jug assemblies should be outfitted with Teflon® tubing from the water column to the transfer cap, which should also be constructed of Teflon®

2.2 Special Precautions for Trace Contaminant Groundwater Sampling

- A clean pair of new, non-powdered, disposable gloves will be worn each time a different location is sampled and the gloves should be donned immediately prior to sampling. The gloves should not come in contact with the media being sampled and should be changed any time during sample collection when their cleanliness is compromised.
- Sample containers for samples suspected of containing high concentrations of contaminants shall be stored separately.

- Sample collection activities shall proceed progressively from the least suspected contaminated area to the most suspected contaminated area if sampling devices are to be reused. Samples of waste or highly contaminated media must not be placed in the same ice chest as environmental (i.e., containing low contaminant levels) or background samples.
- If possible, one member of the field sampling team should take all the notes and photographs, fill out tags, etc., while the other members collect the samples.
- Clean plastic sheeting will be placed on the ground at each sample location to prevent or minimize contaminating sampling equipment by accidental contact with the ground surface.
- Samplers must use new, verified certified-clean disposable or non-disposable equipment cleaned according to procedures contained in SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205) or SESD Operating Procedure for Field Equipment Cleaning and Decontamination at the FEC (SESDPROC-206) for collection of samples for trace metals or organic compound analyses.

2.3 Sample Handling and Preservation Requirements

1. Groundwater samples will typically be collected from the discharge line of a pump or from a bailer, either from the pour stream of an up-turned bailer or from the stream from a bottom-emptying device. Efforts should be made to reduce the flow from either the pump discharge line or the bailer during sample collection to minimize sample agitation.

2. During sample collection, make sure that the pump discharge line or the bailer does not contact the sample container.

3. Place the sample into appropriate, labeled containers. Samples collected for VOC, acidity and alkalinity analysis must not have any headspace. All other sample containers must be filled with an allowance for ullage.

4. All samples requiring preservation must be preserved as soon as practically possible, ideally immediately at the time of sample collection. If preserved VOC vials are used, these will be preserved with concentrated hydrochloric acid by ASB personnel prior to departure for the field investigation. For all other chemical preservatives, SESD will use the appropriate chemical preservative generally stored in an individual single-use vial as described in the SESD Operating Procedure for Field Sampling Quality Control (SESDPROC-011). The adequacy of sample preservation will be checked after the addition of the preservative for all samples except for the samples collected for VOC analysis. If additional preservative is needed, it should be added to achieve adequate preservation. Preservation requirements for groundwater samples are found in the USEPA Region 4 Analytical Support Branch Laboratory Operations and Quality Assurance Manual (ASBLOQAM).

2.4 Quality Control

If possible, a control sample should be collected from a location not affected by the possible contaminants of concern and submitted with the other samples. This control sample should be collected as close to the sampled area as possible and from the same water-bearing formation. Equipment blanks should be collected if equipment is field cleaned and re-used on-site or if necessary to document that low-level contaminants were not introduced by pumps, bailers or other sampling equipment.

2.5 Records

Information generated or obtained by SESD personnel will be organized and accounted for in accordance with SESD records management procedures found in SESD Operating Procedure for Control of Records, SESDPROC-002. Field notes, recorded in a bound field logbook, will be generated, as well as chain-of-custody documentation in accordance with SESD Operating Procedure for Logbooks, SESDPROC-010 and SESD Procedure for Sample and Evidence Management, SESDPROC-005.

3 Groundwater Sampling Methods – Purging

3.1 General

Purging is the process of removing stagnant water from a well, immediately prior to sampling, causing its replacement by groundwater from the adjacent formation that is representative of actual aquifer conditions. In order to determine when a well has been adequately purged, field investigators should monitor, at a minimum, the pH, specific conductance and turbidity of the groundwater removed during purging and, in the case of permanent monitoring wells, observe and record the volume of water removed.

There are several purging strategies that may be used, depending on specific conditions encountered for given well sampling situations. When a specific well is characterized, based on the field investigators experience and knowledge, as having fairly typical water levels, depths and purge volumes, as determined according to the procedures in Section 3.2.1, below, SESD will normally use the multiple volume purging procedures and equipment described in Sections 3.2.1 and 3.3 of this procedure for purging the well.

When the traditional multiple volume purge method is considered and it is determined that excessive quantities of IDW would be generated using this method, it may be appropriate, under very limited and specific circumstances, to use an alternate method that reduces the time and amount of purge water to be removed prior to sampling the well. The field project leader will select the alternate method only after careful consideration of the conditions presented by the well and the impact these conditions have on all aspects of the sampling event (time required to sample, quantities of IDW requiring management, etc.).

The alternate purge procedures or sampling strategies available are the "Tubing-in-Screened Interval" method and the MicroPurge or No-Purge methods. These are described and discussed in Sections 3.2.2 and 4.5 of this operating procedure, respectively.

3.2 Purging Methods and Strategies

3.2.1 Traditional Multiple Volume Purge

3.2.1.1 Purging and Purge Adequacy

3.2.1.1.1 Purge Volume Determination

Prior to initiating the purge, the amount of water standing in the water column (water inside the well riser and screen) should be determined, if possible. To do this, the diameter of the well should be determined and the water level and total depth of the well should be measured and recorded. Specific methodology for obtaining these measurements is found in SESD Operating Procedure for Groundwater Level and Well Depth Measurement (SESDPROC-105).

Once this information is obtained, the volume of water to be purged can be determined using one of several methods. One is the equation:

$V = 0.041\ d^2h$

Where: h = depth of water in feet
d = diameter of well in inches
V = volume of water in gallons

Alternatively, the volume of standing water in the well and the volume of three water columns may be determined using a casing volume per foot factor for the appropriate diameter well, similar to that in Table 3.2.1. The water level is subtracted from the total depth, providing the length of the water column. This length is multiplied by the appropriate factor in the Table 3.2.1, corresponding to either the single well volume or the triple well volume, to determine both the single well volume and triple well volumes, in gallons, for the well in question. Other acceptable methods include the use of nomographs or other equations or formulae.

TABLE 3.2.1: WELL CASING DIAMETER VOLUME FACTORS

Casing Diameter (inches)	Gallons/ft, One Water Column	Gallons/ft, Three Water Columns
1	0.04	0.12
2	0.16	0.48
3	0.37	1.11
4	0.65	1.98
5	1.02	3.06
6	1.47	4.41
7	1.99	5.97
8	2.61	7.83
9	3.30	9.90
10	4.08	12.24
11	4.93	14.79
12	5.87	17.61

With respect to volume, an adequate purge is normally achieved when three to five well volumes have been removed. The field notes should reflect the single well volume calculations or determinations, according to one of the above methods, and a reference to the appropriate

multiplication of that volume, i.e., a minimum three well volumes, clearly identified as a purge volume goal.

3.2.1.1.2 Chemical Parameter Stabilization Criteria

With respect to the ground water chemistry, an adequate purge is achieved when the pH and specific conductance of the ground water have stabilized and the turbidity has either stabilized or is below 10 Nephelometric Turbidity Units (NTUs) (twice the Primary Drinking Water Standard of 5 NTUs). Although 10 NTUs is normally considered the minimum goal for most ground water sampling objectives, lower turbidity has been shown to be easily achievable in most situations and reasonable attempts should be made to achieve these lower levels. (Note: Because groundwater temperature is subject to rapid changes when collected for parameter measurement, its usefulness is subject to question for the purpose of determining parameter stability. As such, it has been removed from the list of parameters used for stability determination. Even though temperature is not used to determine stability during well purging, it is still advisable to record the sample temperature, along with the other groundwater chemistry parameters during well purging, as it may be needed to interpret other chemical parameter results in some situations.)

Stabilization occurs when, for at least three consecutive measurements, the pH remains constant within 0.1 Standard Unit (SU) and specific conductance varies no more than approximately 5 percent. Other parameters, such as dissolved oxygen (DO), may also be used as a purge adequacy parameter. Normal goals for DO are 0.2 mg/L or 10% saturation, whichever is greater. DO measurements must be conducted using either a flow-through cell or an over-topping cell to minimize or reduce any oxygenation of the sample during measurement. Oxidation Reduction Potential (ORP) should not be used as a purge stabilization parameter but may be measured during purging to obtain the measurement of record for ORP for the sampling event.

There are no set criteria for establishing how many total sets of measurements are adequate to document stability of parameters. If the calculated purge volume is small, the measurements should be taken frequently enough to provide a sufficient number of measurements to evaluate stability. If the purge volume is large, measurements taken every 15 minutes, for example, may be sufficient. See the SESD Operating Procedures for Field pH Measurement (SESDPROC-100), Field Specific Conductance Measurement (SESDPROC-101), Field Temperature Measurement (SESDPROC-102), Field Turbidity Measurement (SESDPROC-103), Field Measurement of Dissolved Oxygen (SESDPROC-106) and Field Measurement of Oxidation-Reduction Potential (SESDPROC-113) for procedures for conducting these measurements.

If, after three well volumes have been removed, the chemical parameters have not stabilized according to the above criteria, additional well volumes (up to five well volumes), should be removed. If the parameters have not stabilized within five volumes, it is at the discretion of the project leader whether or not to collect a sample or to continue purging. If, after five well volumes, pH and conductivity have stabilized and the turbidity is still decreasing and approaching an acceptable level, additional purging should be considered to obtain the best sample possible, with respect to turbidity. The conditions of sampling should be noted in the field log.

3.2.1.1.3 Purge Adequacy Considerations

In some situations, even with slow purge rates, a well may be pumped or bailed dry (evacuated). In these situations, this generally constitutes an adequate purge and the well can be sampled following sufficient recovery (enough volume to allow filling of all sample containers). ***It is not necessary that the well be evacuated three times before it is sampled***. The pH, specific conductance, temperature, and turbidity should be measured and recorded, during collection of the sample from the recovered volume, as the measurements of record for the sampling event.

For wells with slow recovery, attempts should be made to avoid purging them to dryness. This can be accomplished, for example, by slowing the purge rate. As water enters a well that has been purged to dryness, it may cascade down the sand pack and/or the well screen, stripping volatile organic constituents that may be present and/or introducing soil fines into the water column.

It is particularly important that wells be sampled as soon as possible after purging. If adequate volume is available immediately upon completion of purging, the well must be sampled immediately. If not, sampling should occur as soon as adequate volume has recovered. If possible, sampling of wells which have a slow recovery should be scheduled so that they can be purged and sampled in the same day, after adequate volume has recovered. Wells of this type should, unless it is unavoidable, not be purged at the end of one day and sampled the following day.

3.2.2 "Tubing-in-Screened-Interval" Method

The "Tubing-in-Screen" method, sometimes referred to as the "Low Flow" method, is used primarily when calculated purge volumes for the traditional purging method are excessive and present issues related to timely completion of the project and/or management of investigation derived waste.

3.2.2.1 Purge Criteria

3.2.2.1.1 Placement of Pump Tubing or Intake

The peristaltic pump tubing or intake point of the submersible pump is placed in the approximate mid-portion of the screened interval of the well. By definition, this method cannot be applied for purging with a bailer.

3.2.2.1.2 Conditions of Pumping

Prior to initiation of pumping, a properly decontaminated well sounder should be lowered into the well being sampled to monitor the static water level prior to and during the purging process. Ideally, there should be only a slight and stable drawdown of the water column after pumping begins. If this condition cannot be met, then one of the other methods should be employed.

3.2.2.1.3 Stability of Chemical Parameters

As with the traditional purging method described in Section 3.2.1, it is important that all chemical parameters be stable as defined in Section 3.2.1.1 prior to sampling.

3.3 Equipment Considerations for Purging

Monitoring well purging is accomplished by using in-place plumbing and dedicated pumps or by using portable pumps/equipment when dedicated systems are not present. The equipment utilized by Branch personnel will usually consist of peristaltic pumps and variable speed electric submersible pumps, but may also include bladder pumps or inertial pumps. The pump of choice is usually a function of the well diameter, the depth to water, the depth of the well and the amount of water that is to be removed during purging. Whenever the head difference between the sampling location and the water level is less than the limit of suction and the volume to be removed is reasonably small, a peristaltic pump should be used for purging. For wells where the water level is below the limit of suction (approximately 25’ to 30’, and/or where there is a large volume of water to be purged), the variable speed electric submersible pump would be the pump of choice. SESD Operating Procedure for Pump Operation (SESDPROC-203) contains the use and operating instructions for all pumps commonly used during SESD ground water investigations.

Bailers may also be used for purging in appropriate situations, however, their use is discouraged. Bailers tend to disturb any sediment that may be present in the well, creating or increasing sample turbidity. Bailers, if improperly used, may also strip volatile organic compounds from the water column being sampled. If a bailer is used, it should be a closed-top Teflon® bailer.

3.3.1 Wells Without Plumbing or In-Place Pumps

For permanent monitoring wells, the depth to water (water level) and depth of the well (total depth) should be determined before purging. Caution should be exercised during this procedure to prevent cross-contamination between wells. This is a critical concern when samples for trace organic compounds or metals analyses are collected. See SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205**)** for cleaning procedures for well sounders. After cleaning, the well sounding device should be protected to keep it clean until its next use.

3.3.1.1 Purging with Pumps

3.3.1.1.1 Peristaltic Pumps

The following step-by-step procedures describe the process of purging with a peristaltic pump:

1. Cut a length of standard-cleaned (SESD Operating Procedure for Field Equipment Cleaning and Decontamination at the FEC (SESDPROC-206)) Teflon® tubing, equal to the well depth plus an additional five to ten feet. Enough tubing is needed to run from the ground surface up to the top of the well casing and back down to the bottom of the well. This will allow for operation of the pump at all possible water level conditions in the well.

2. Place one end of the tubing into the vacuum side of the peristaltic pump head. Proper sizing of the Teflon® and Silastic® or Tygon® tubing should allow for a snug fit of the Teflon® tubing inside the flexible tubing mounted in the pump head.

3. Run a short section of tubing (does not have to be Teflon®) from the discharge side of the pump head to a graduated bucket.

4. Place the free end of the Teflon® tubing into the well until the end of the tubing is just below the surface of the water column.

5. Secure the Teflon® tubing to the well casing or other secure object using electrician's tape or other suitable means. This will prevent the tubing from being lost in the well should the tubing detach from the pump head.

6. Turn on the pump to produce a vacuum on the well side of the pump head and begin the purge. Observe pump direction to ensure that a vacuum is being applied to the purge line. If the purge line is being pressurized, either switch the tubing at the pump head or reverse the polarity of the cables on the pump or on the battery.

7. If the pumping rate exceeds the recovery rate of the well, continue to lower the tubing into the well, as needed, until the drawdown stabilizes or the well is evacuated to dryness. If the pump is a variable speed peristaltic pump, and the water level in the well is being drawn down, reduce the speed of the pump in an attempt to stabilize the drawdown. If the well can be purged without evacuating the well to dryness, a sample with greater integrity can be obtained.

8. For wells which are not evacuated to dryness, particularly those with recovery rates equal to or very nearly equal to the purge rate, there may not be a complete exchange and removal of stagnant water in that portion of the water column above the tubing intake. For this reason, it is important that the tubing intake be placed in the very uppermost portion of the water column while purging. Standard field measurements should frequently be taken during this process to verify adequacy of the purge and readiness for sampling, as described in Section 3.

3.3.1.1.2 Submersible Pumps

When a submersible pump is used for well purging, the pump itself is lowered into the water column. The pump must be cleaned as specified in SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205).

The pump/hose assembly used in purging should be lowered into the top of the standing water column and not deep into the column. This is done so that the purging will "pull" water from the formation into the screened area of the well and up through the casing so that the entire static volume can be removed. If the pump is placed deep into the water column, the water above the pump may not be removed, and the subsequent samples, particularly if collected with a bailer, may not be representative of the aquifer conditions. It is recommended that the pump not be lowered more than three to five feet into the water column. If the recovery rate of the well is faster than the pump rate and no observable draw down occurs, the pump should be raised until the intake is within one foot of the top of the water column for the duration of purging. If the pump rate exceeds the recovery rate of the well, the pump will have to be lowered, as needed, to accommodate the drawdown. After the pump is removed from the well, the hose and the pump should be cleaned as outlined in SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205).

3.3.1.2 Purging with Bailers

Standard-cleaned (SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205) or SESD Operating Procedure for Field Equipment Cleaning and Decontamination at the FEC (SESDPROC-206)), closed top Teflon® bailers with Teflon® coated stainless steel leaders and new nylon rope are lowered into the top of the water column, allowed to fill, and removed. It is critical that bailers be slowly and gently immersed into the top of the water column, particularly during final stages of purging, to minimize turbidity and disturbance of volatile organic constituents. The use of bailers for purging and sampling is discouraged because the correct technique is highly operator dependent and improper use may result in an unrepresentative sample.

3.3.2 Wells With In-Place Plumbing

Wells with in-place plumbing are commonly found at municipal water treatment plants, industrial water supplies, private residences, etc. Many permanent monitoring wells at active facilities are also equipped with dedicated, in-place pumps. The objective of purging wells with in-place pumps is the same as with monitoring wells without in-place pumps, i.e., to ultimately collect a ground water sample representative of aquifer conditions. Among the types of wells identified in this section, two different approaches are necessary.

A permanent monitoring well with an in-place pump should, in all respects, be treated like a monitoring well without a pump. One limitation is that in most cases the in-place pump is "hard" mounted, that is, the pump is suspended in the well at a pre-selected depth and cannot be moved up or down during purging and sampling. In these cases, well volumes are calculated, parameters are measured and the well is sampled from the pump discharge, after volume removal and parameter conditions have been met.

In the case of the other types of wells, i.e., municipal, industrial and residential supply wells, however, not enough is generally known about the construction aspects of the wells to apply the same criteria as used for monitoring wells, i.e., 3 to 5 well volumes. The volume to be purged in these situations, therefore, depends on several factors: whether the pumps are running continuously or intermittently and whether or not any storage/pressure tanks are located between the sampling point and the pump. The following considerations and procedures should be followed when purging wells with in-place plumbing under the conditions described.

3.3.2.1 Continuously Running Pumps

If the pump runs more or less continuously, no purge (other than opening a valve and allowing it to flush for a few minutes) is necessary. If a storage tank is present, a spigot, valve or other sampling point should be located between the

pump and the storage tank. If not, locate the valve closest to the tank. Measurements of pH, specific conductance, temperature, and turbidity are recorded at the time of sampling.

3.3.2.2 Intermittently or Infrequently Running Pumps

If the pump runs intermittently or infrequently, best judgment should be utilized to remove enough water from the plumbing to flush standing water from the piping and any storage tanks that might be present. Generally, under these conditions, 15 to 30 minutes will be adequate. Measurements of pH, specific conductance, temperature and turbidity should be made and recorded at intervals during the purge and the final measurements made at the time of sampling should be considered the measurements of record for the event.

3.3.3 Temporary Monitoring Wells

3.3.3.1 General Considerations

Procedures used to purge temporary ground water monitoring wells differ from permanent wells because temporary wells are installed for immediate sample acquisition. Wells of this type may include standard well screen and riser placed in boreholes created by hand augering, power augering, or by drilling. They may also consist of a rigid rod and screen that is pushed, driven, or hammered into place to the desired sampling interval, such as a direct push Wellpoint®, a Geoprobe® Screen Point 15/16 sampler or a Hydropunch® sampler. As such, the efforts to remove several volumes of water to replace stagnant water do not necessarily apply because stagnant water is not present. It is important to note, however, that the longer a temporary well is in place and not sampled, the more stagnant the water column becomes and the more appropriate it becomes to apply, to the extent possible, standard permanent monitoring well purging criteria to it to re-achieve aquifer conditions.

In cases where the temporary well is to be sampled immediately after installation, purging is conducted primarily to mitigate the impacts of installation. In most cases, temporary well installation procedures disturb the existing aquifer conditions, resulting primarily in increased turbidity. Therefore, the goal of purging is to reduce the turbidity and remove the volume of water in the area directly impacted by the installation procedure. Low turbidity conditions in these types of wells that are completed within the limit of suction are typically and routinely achieved by the use of low-flow/low stress purging techniques using variable speed peristaltic pumps.

3.3.3.2 Purging When Water Level Is Within Limit of Suction

In situations where the elevation of the top of the water column is within the limit of suction (no greater than about 25 feet head difference between the pump and the water level), a variable speed peristaltic pump may be used to purge

temporary wells. Enough tubing is deployed to reach the bottom of the temporary well screen. At the onset of purging, the tubing is slowly lowered to the bottom of the screen and is used to remove any formation material which may have entered the well screen during installation. This is critical to ensuring rapid achievement of low turbidity conditions. After the formation material is removed from the bottom of the screen, the tubing is slowly raised through the water column to near the top of the column. The tubing can be held at this level to determine if the pump rate is drawing down the water level in the well. If the water level remains the same, secure the tubing at the surface to maintain this pumping level.

If drawdown is observed on initiation of pumping, reduce the pump speed and attempt to match the drawdown of the well. Sustained pumping at these slow rates will usually result in a relatively clear, low turbidity sample. If the drawdown stabilizes, maintain that level, however, if it continues to lower, "chase" the water column until the well is evacuated. In this case, the recovered water column may be relatively free of turbidity and can be sampled. It may take several episodes of recovery to provide enough volume for a complete sample.

3.3.3.3 Purging When Water Level Is Greater Than Limit of Suction

In situations where the elevation of the water table is greater than the limit of suction, peristaltic pumps cannot be used to purge temporary wells. If the temporary well is a ScreenPoint15® sampler with small diameter probe rod riser, the only practical choices for water removal are a small diameter bailer, a small diameter bladder pump or an inertial pump. If the well is to be used strictly for VOC screening, it may be acceptable to use the bailer to bail as much sediment from the well as possible prior to sampling. If metals are the analytes of concern, the bladder pump is the best choice for lowering the turbidity of the water column prior to sampling, followed next by the inertial pump. For larger diameter temporary wells, two-inch diameter or greater, bailers and the Grundfos® RediFlo2 may be used although excessive silt or other “fines” may present problems with the operation of the pump.

3.3.3.4 Considerations for Direct Push Groundwater Sampling

With many of the direct push sampling techniques, purging is either not practical or possible, therefore, no purging is conducted. The sampling device is simply pushed or driven to the desired depth and opened and the sample is collected and retrieved. As a result, some samples collected in this way may not be satisfactory or acceptable for certain analyses, i.e., the subject procedure may yield a turbid sample that is not appropriate for metals analyses.

3.4 Field Care of Purging Equipment

New plastic sheeting should be placed on the ground surface around the well casing to prevent contamination of the pumps, hoses, ropes, etc., in the event they accidentally

come into contact with the ground surface or, for some reason, they need to be placed on the ground during the purging event. It is preferable that hoses used in purging that come into contact with the ground water be kept on a spool or contained in a large wash tub lined with plastic sheeting, both during transportation and during field use, to further minimize contamination by the transporting vehicle or the ground surface.

Careful consideration shall be given to using submersible pumps to purge wells which are excessively contaminated with oily compounds, because it may be difficult to adequately decontaminate severely contaminated pumps under field conditions. When wells of this type are encountered, alternative purging methods, such as bailers, should be considered.

3.5 Investigation Derived Waste

Purging generates quantities of purge water or investigation derived waste (IDW), the disposition of which must be considered. See SESD Operating Procedure for Management of Investigation Derived Waste (SESDPROC-202) for guidance on management or disposal of this waste.

4 Groundwater Sampling Methods – Sampling

4.1 General

Sampling is the process of obtaining, containerizing, and preserving (if required) a ground water sample after the purging process is complete. Non-dedicated pumps for sample collection generally should not be used. Many pumps are made of materials such as brass, plastic, rubber, or other elastomeric products which may cause chemical interferences with the sample. Their principle of operation may also render them unacceptable as a sample collection device. It is recognized that there are situations, such as industrial or municipal supply wells or private residential wells, where a well may be equipped with a dedicated pump from which a sample would not normally be collected. Discretion should always be used in obtaining a sample.

4.2 Sampling Wells With In-Place Plumbing

Samples should be collected following purging from a valve or cold water tap as near to the well as possible, preferably prior to any storage/pressure tanks or physical/chemical treatment system that might be present. Remove any hose that may be present before sample collection and reduce the flow to a low level to minimize sample disturbance, particularly with respect to volatile organic constituents. Samples should be collected directly into the appropriate containers as specified in the ASBLOQAM. It may be necessary to use a secondary container, such as a clean 8 oz. or similar size sample jar or a stainless steel scoop, to obtain and transfer samples from spigots with low ground clearance. Also, refer to the discussion in the SESD Operating Procedure for Potable Water Supply Sampling (SESDPROC-305), Sec. 4.2, Potable Water Samples Collected from Wells with In-Place Plumbing**.** Potable well measurements for pH, specific conductance and turbidity and possibly temperature, if warranted, should be recorded at the time of sample collection.

4.3 Sampling Wells Without Plumbing, Within the Limit of Suction

4.3.1 Equipment Available

The pump of choice for sampling ground water within the limit of suction is the variable-speed peristaltic pump. Its use is described in the following sections. Other acceptable alternatives that may be used under these conditions are the RediFlo2® electric submersible pump (with Teflon® tubing) and a closed-top Teflon® bailer.

4.3.1.1 Peristaltic Pump, Direct from Pump Head Tubing

Samples for some constituents, primarily inorganic analytes such as metals and cyanide, may be collected directly from the pump head tubing. This method is acceptable under the following conditions:

- The pump head tubing must be changed between sampling locations;

- The pump head tubing must be either be certified clean according to SESD's internal quality control program described in Section 3.2 of the SESD Operating Procedure for Field Sampling Quality Control (SESDPROC-011) or
- An equipment rinsate blank is collected by pumping de-ionized water through a piece of the tubing.

4.3.1.2 Peristaltic Pump/Vacuum jug

It is not acceptable to collect samples for organic compound analyses through the flexible tubing used in the pump head. When collecting samples for organic compound analyses it is necessary to use a vacuum container, placed between the pump and the well for sample collection. The following step-by-step procedures describe the process of sampling with a peristaltic pump and vacuum jug (see note following these procedures for collection of VOC samples):

1. Disconnect the purge tubing from the pump. Make sure the tubing is securely attached to the protective casing or other secure object.

2. Insert the tubing into one of the ferrule nut fittings of a Teflon® vacuum container transfer cap assembly.

3. Place a suitable length of Teflon® tubing between the remaining transfer cap assembly ferrule nut fitting and the vacuum side of the flexible tubing in the peristaltic pump head. Securely hand-tighten both fittings.

4. Turn the pump on. Water should begin to collect in the transfer container (typically a 1-liter sample container) within a few minutes. If water does not begin to flow into the container within several minutes, check the transfer cap fittings and make sure the assembly is tightly attached to the container. It may be necessary to tighten the ferrule nuts with a wrench or pliers to achieve a vacuum in the system, particularly when approaching the maximum head difference between the pump and water table (limit of suction).

5. When the transfer container is nearly full, turn off the pump, remove the transfer cap assembly, and pour the sample into the appropriate containers. Because the 1-liter containers used by the Branch are rinsed with nitric acid during cleaning, they cannot be used for collecting samples to be analyzed for nitrogen sensitive parameters.

6. If additional sample volume is needed, replace the transfer cap assembly, turn the pump on, and collect additional volume. The use of Teflon® valves or ball check devices to retain the water column in the sample delivery tubing during the transfer phase, when large volumes of sample are required, is acceptable. These devices, however, must be constructed so that they may be completely disassembled and cleaned according to the procedures in SESD

Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205).

7. When sampling is completed, all Teflon® tubing should be discarded.

   NOTE: Samples for volatile organic compound analyses cannot be collected using this method. If samples for VOC analyses are required, they must be collected with a Teflon® or stainless steel bailer or by other approved methods, such as the "soda straw" method. The "soda straw" method involves allowing the tubing to fill, by either lowering it into the water column (A) or by filling it via suction applied by the pump head (B). If method (A) is used, the tubing is removed from the well after filling and the captured sample is allowed to drain into the sample vial. If method (B) is used, after running the pump and filling the tubing with sample, the pump speed is reduced and the direction reversed to push the sample out of the tubing into the vials. Avoid completely emptying the tubing when filling the sample vials when using method (B) to prevent introducing water that was in contact with the flexible pump head tubing. Either method is repeated, as necessary, until all vials are filled.

4.3.1.3 RediFlo2® Electric Submersible Pump (with Teflon® Tubing)

After purging has been accomplished with RediFlo2® electric submersible pump, the sample may be obtained directly from the pump discharge, provided that Teflon® tubing was used for the sample delivery line. The discharge rate of the pump should be reduced during volatile organic compound sample collection to minimize sample disturbance. Note, if the RediFlo2® electric submersible pump is used for sampling, the pump must undergo a full external and internal cleaning. In addition, pump rinsate blanks must be collected, at the appropriate frequency, to demonstrate that the pump has been adequately cleaned between wells.

4.3.1.4 Bailers

New bailer rope should be attached to the bailer via a Teflon® coated stainless steel wire. (If a bailer was used to purge the well, it may also be used to sample the well and new bailer rope is not required between purging and sampling). The bailer should be gently immersed in the top of the water column until just filled. At this point, the bailer should be slowly removed and the contents emptied into the appropriate sample containers.

4.4 Sampling Wells without Plumbing, Exceeding the Limit of Suction

All methods described previously in Section 4.3.2.1.3, RediFlo2® Electric Submersible Pumps, and Section 4.3.2.1.4, Bailers, are suitable sample methods where the water table is too deep to consider the use of a peristaltic pump for sampling.

4.5 Micro-Purge or No Purge Sampling Procedures

The Micro-Purge or No Purge sampling procedures are usually employed when it necessary to keep purge volumes to an absolute minimum. Among the Micro-Purge or No Purge procedures that might be employed are:

- Low pump rate sampling with peristaltic or submersible pumps (typical Micro-Purge sampling),
- HydraSleeve™ or
- Passive diffusion bag (PDB) sampling

The use of these procedures is acceptable only when the site hydrogeology is well understood, with respect to the hydraulic conductivity of geologic materials within the well screen interval. The underlying assumption, when employing these procedures, is that the formation in which the well is screened has a high hydraulic conductivity ($K>10^{-5}$ cm/sec, for example), resulting in a state of equilibrium existing between the water standing in the screened interval and the formation water in which the well is screened. In this situation, the well is considered to be in a perpetually "purged" state and purging is not required.

These procedures are generally impractical for SESD to implement because of the general lack of hydrogeologic information for the sampled wells and the real necessity, in some cases, that the pumps be pre-deployed to overcome issues related to turbidity resulting from pump placement prior to sampling.

4.5.1 Sampling with Pumps

The peristaltic pump tubing or intake point of the submersible pump is placed in the approximate mid-portion of the screened interval of the well or other interval selected by the field team leader. If turbidity and its impact on metals analyses are a concern, a period of time sufficient should be allowed to mitigate effects of pump or tubing placement. After it has been determined that sampling may proceed, the pump is turned on and operated at a rate that does not cause significant drawdown of the water column, as measured using a water level sounder. During sampling, sufficient water to supply enough volume for the analytes of concern and the purge parameters is pumped. Purging should continue until purge parameters stabilize, generally three consecutive stable sets of readings, before samples are collected.

4.5.2 HydraSleeves™

HydraSleeeves™ are grab sampling devices that are deployed in a closed configuration then opened in the desired interval for sample collection. The following is a summary of its operation:

1. Sampler placement - Reusable weight is attached and the HydraSleeve™ is lowered and placed at the desired position in the well screen. In-situ water pressure keeps the reed valve closed, preventing water from entering the sampler. Well is allowed to return to equilibrium.

2. Sample collection - The reed valve opens to allow filling when the sampler is moved upward faster than 1 foot per second, either in one continuous upward pull or by cycling the sampler up and down to sample a shorter interval. There is no change in water level, and only minimal agitation during collection.

3. Sample retrieval - When the flexible sleeve is full, the reed valve closes and the sampler can be recovered without entry of extraneous overlying fluids. Samples are removed by puncturing the sleeve with the pointed discharge tube and draining the contents into containers for sampling or field measurement.

4.5.3 Passive Diffusion Bags

Passive diffusion bag (PDB) samplers are bags comprised of low-density polyethylene (LDPE) plastic and containing analyte-free water, preferably with no headspace. The bags are deployed, with stainless steel weights, to the desired sample interval and are allowed to equilibrate with the water at the point of deployment in the well. A deployment period of a minimum of 14 days is recommended to ensure equilibration prior to removal.

After 14 days, the bags and opened with a puncture device or other cutting implement and the contents transferred to containers for sampling or field measurement.

4.5.4 General Considerations for Micro-Purge or No-Purge Sampling

When using the Micro-Purge method, it may be advisable to deploy the tubing or pump in advance of sample collection. Introducing the tubing or pump into the screened interval is likely to dislodge sediment and other fines that have settled or bridged on the well screen material and the gravel pack media behind the screen. If sampling is conducted immediately, turbidity issues may render this method impractical from a parameter stability standpoint.

HydraSleevesTM and PDBs must be evaluated for appropriateness for analytes of concern.

4.6 Sample Preservation

After sample collection, all samples requiring preservation must be preserved as soon as practical. Consult the ASBLOQAM for the correct preservative for the particular analytes of interest. All samples preserved using a pH adjustment (except VOCs) must be checked, using pH strips, to ensure that they were adequately preserved. This is done by pouring a small volume of sample over the strip. Do not place the strip in the sample. Samples requiring reduced temperature storage should be placed on ice immediately.

4.7 Special Sample Collection Procedures

4.7.1 Trace Organic Compounds and Metals

Special sample handling procedures should be instituted when trace contaminant samples are being collected. All sampling equipment, including pumps, bailers, water level measurement equipment, etc., which comes into contact with the water in the well must be cleaned in accordance with the cleaning procedures described in the SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205) or SESD Operating Procedure for Field Equipment Cleaning and Decontamination at the FEC (SESDPROC-206). Pumps should not be used for sampling unless the interior and exterior portions of the pump and the discharge hoses are thoroughly cleaned. Blank samples should be collected to determine the adequacy of cleaning prior to collection of any sample using a pump other than a peristaltic pump.

4.7.2 Order of Sampling with Respect to Analytes

In many situations when sampling permanent or temporary monitoring wells, an adequate purge, with respect to turbidity, is often difficult to achieve. Removal and insertion of equipment after the purge and prior to actual sampling may negate the low turbidities achieved during purging and elevate turbidity back to unacceptable levels. For this reason, it is important that special efforts be used to minimize any disturbance of the water column after purging and to collect the aliquot for metals first. Therefore, the preferred order of sampling is metals first, followed by other inorganic analytes, extractable organic compounds and volatile organic compounds.

4.7.3 Filtering

As a standard practice, ground water samples will not be filtered for routine analysis. Filtering will usually only be performed to determine the fraction of major ions and trace metals passing the filter and used for flow system analysis and for the purpose of geochemical speciation modeling. Filtration is not allowed to correct for improperly designed or constructed monitoring wells, inappropriate sampling methods, or poor sampling technique.

When samples are collected for routine analyses and are filtered, both filtered and non-filtered samples will be submitted for analyses. Samples for organic compounds analysis should not be filtered. Prior to filtration of the ground water sample for any reason other than geochemical speciation modeling, the following criteria must be demonstrated to justify the use of filtered samples for inorganic analysis:

1. The monitoring wells, whether temporary or permanent, have been constructed and developed in accordance with the SESD Guidance Document, Design and Installation of Monitoring Wells (SESDGUID-001).

2. The ground water samples were collected using sampling techniques in accordance with this section, and the ground water samples were analyzed in accordance with USEPA approved methods.

3. Efforts have been undertaken to minimize any persistent sample turbidity problems. These efforts may consist of the following:

    - Redevelopment or re-installation of permanent ground water monitoring wells.
    - Implementation of low flow/low stress purging and sampling techniques.

4. Turbidity measurements should be taken during purging and sampling to demonstrate stabilization or lack thereof. These measurements should be documented in the field notes. If the ground water sample appears to have either a chemically-induced elevated turbidity, such as would occur with precipitate formation, or a naturally elevated colloid or fine, particulate-related turbidity, filtration will not be allowed.

If filtration is necessary for purposes of geochemical modeling or other **pre-approved** cases, the following procedures are suggested:

1. Accomplish in-line filtration through the use of disposable, high capacity filter cartridges (barrel-type) or membrane filters in an in-line filter apparatus. The high capacity, barrel-type filter is preferred due to the higher surface area associated with this configuration. If a membrane filter is utilized, a minimum diameter of 142 mm is suggested.

2. Use a 5 μm pore-size filter for the purpose of determining the colloidal constituent concentrations. A 0.1 μm pore-size filter should be used to remove most non-dissolved particles.

3. Rinse the cartridge or barrel-type filter with 500 milliliters of the solute (groundwater to be sampled) prior to collection of sample. If a membrane filter is used, rinse with 100 milliliters of solute prior to sample collection.

Potential differences could result from variations in filtration procedures used to process water samples for the determination of trace element concentrations. A number of factors associated with filtration can substantially alter "dissolved" trace element concentrations; these include filter pore size, filter type, filter diameter, filtration method, volume of sample processed, suspended sediment concentration, suspended sediment grain-size distribution, concentration of colloids and colloidally-associated trace elements, and concentration of organic matter. Therefore, consistency is critical in the comparison of short-term and long-term results. Further guidance on filtration may be obtained from the following: 1) Metals in Ground Water: Sampling Artifacts and Reproducibility; 2) Filtration of Ground Water Samples for Metals Analysis; and 3) Ground Water Sampling - A Workshop Summary. See Section 1.4, References, for complete citation for these documents.

Bacterial Sampling

Whenever wells (normally potable wells) are sampled for bacteriological parameters, care must be taken to ensure the sterility of all sampling equipment and all other equipment entering the well. Further information regarding bacteriological sampling is available in the following: 1) Sampling for Organic Chemicals and Microorganisms in the Subsurface; 2) Handbook for Evaluating Water Bacteriological Laboratories; and 3) Microbiological Methods for Monitoring the Environment, Water and Wastes. See Section 1.4, References, for complete citation for these documents.

4.8 Specific Sampling Equipment Quality Assurance Techniques

All equipment used to collect ground water samples shall be cleaned as outlined in the SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205) or SESD Operating Procedure for Field Equipment Cleaning and Decontamination at the FEC (SESDPROC-206) and repaired, if necessary, before being stored at the conclusion of field studies. Cleaning procedures utilized in the field or field repairs shall be thoroughly documented in field records.

4.9 Auxiliary Data Collection

During ground water sample collection, it is important to record a variety of ground water related data. Included in the category of auxiliary data are water levels measured according to the SESD Operating Procedure for Groundwater Level and Well Depth Measurement (SESDPROC-105), well volume determinations (Section 3.1.1, Purging and Purge Adequacy), pumping rates during purging (see below), and occasionally, drillers or boring logs. This information should be documented in the field records.

4.9.1 Well Pumping Rate – Bucket/Stop Watch Method

The pumping rate for a pump can be determined by collecting the discharge from the pump in a bucket of known volume and timing how long it takes to fill the bucket. The pumping rate should be in gallons per minute. This method shall be used primarily with pumps with a constant pump rate, such as gasoline-powered or electric submersible pumps. Care should be taken when using this method with some battery-powered pumps. As the batteries' charge decreases, the pump rate also decreases so that pumping rate calculations using initial, high pump rates may be erroneously high. If this method is used with battery-powered pumps, the rate should be re-checked frequently to ensure accuracy of the pumping rate calculations.

Region 4
U.S. Environmental Protection Agency
Science and Ecosystem Support Division
Athens, Georgia

OPERATING PROCEDURE

Title: **Soil Sampling**

Effective Date: August 21, 2014	**Number:** SESDPROC-300-R3

Authors

Name: Kevin Simmons
Title: Environmental Scientist, Regional Expert
Signature: Date: 8/18/2014

Approvals

Name: John Deatrick
Title: Acting Chief, Enforcement and Investigations Branch
Signature: John Deatrick Date: 8/18/14

Name: Bobby Lewis
Title: Field Quality Manager, Science and Ecosystem Support Division
Signature: for Bobby Lewis Date: 8/20/14

Revision History

The top row of this table shows the most recent changes to this controlled document. For previous revision history information, archived versions of this document are maintained by the SESD Document Control Coordinator on the SESD local area network (LAN).

History	Effective Date
SESDPROC-300-R3, *Soil Sampling*, replaces SESDPROC-300-R2. **General:** Corrected any typographical, grammatical and/or editorial errors. **Title Page:** Updated the author from Fred Sloan to Kevin Simmons. Updated the Enforcement and Investigations Branch Chief from Archie Lee to Acting Chief, John Deatrick. Section 1.5.1: Added "The reader should" to last sentence of the paragraph. Section 1.5.2: Omitted "When sampling in landscaped areas," from first sentence of eighth bullet. Section 3.2.4: In the first paragraph, first sentence, added "(rapidly form bubbles)." Omitted "(rapidly form bubbles)" from second paragraph, second sentence. Any reference to "Percent Moisture and Preservation Compatibility (MOICA)" or "Percent Moisture" was changed to "Percent Solids", both in the text and in Table 1.	August 21, 2014
SESDPROC-300-R2, *Soil Sampling*, replaces SESDPROC-300-R1.	December 20, 2011
SESDPROC-300-R1, *Soil Sampling*, replaces SESDPROC-300-R0.	November 1, 2007
SESDPROC-300-R0, Soil Sampling, Original Issue	February 05, 2007

TABLE OF CONTENTS

TABLES

1 General Information

1.1 Purpose

This document describes general and specific procedures, methods and considerations to be used and observed when collecting soil samples for field screening or laboratory analysis.

1.2 Scope/Application

The procedures contained in this document are to be used by field personnel when collecting and handling soil samples in the field. On the occasion that SESD field personnel determine that any of the procedures described in this section are inappropriate, inadequate or impractical and that another procedure must be used to obtain a soil sample, the variant procedure will be documented in the field logbook and subsequent investigation report, along with a description of the circumstances requiring its use. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

1.3 Documentation/Verification

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and have been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD local area network (LAN). The Document Control Coordinator (DCC) is responsible for ensuring the most recent version of the procedure is placed on the LAN, and for maintaining records of review conducted prior to its issuance.

1.4 References

International Air Transport Authority (IATA). Dangerous Goods Regulations, Most Recent Version

SESD Operating Procedure for Field Equipment Cleaning and Decontamination, SESDPROC-205, Most Recent Version

SESD Operating Procedure for Field Equipment Cleaning and Decontamination at the FEC, SESDPROC-206, Most Recent Version

SESD Operating Procedure for Field Sampling Quality Control, SESDPROC-011, Most Recent Version

SESD Operating Procedure for Field X-Ray Fluorescence (XRF) Measurement, SESDPROC-107, Most Recent Version

SESD Operating Procedure for Logbooks, SESDPROC-010, Most Recent Version

SESD Operating Procedure for Sample and Evidence Management, SESDPROC-005, Most Recent Version

Title 49 Code of Federal Regulations, Pts. 171 to 179, Most Recent Version

US EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846, Most Recent Version (Method 5035)

US EPA. Safety, Health and Environmental Management Program (SHEMP) Procedures and Policy Manual. Region 4 SESD, Athens, GA, Most Recent Version

1.5 General Precautions

1.5.1 Safety

Proper safety precautions must be observed when collecting soil samples. Refer to the SESD Safety, Health and Environmental Management Program (SHEMP) Procedures and Policy Manual and any pertinent site-specific Health and Safety Plans (HASP) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. The reader should address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

1.5.2 Procedural Precautions

The following precautions should be considered when collecting soil samples:

- Special care must be taken not to contaminate samples. This includes storing samples in a secure location to preclude conditions which could alter the properties of the sample. Samples shall be custody sealed during long-term storage or shipment.
- Collected samples are in the custody of the sampler or sample custodian until the samples are relinquished to another party.
- If samples are transported by the sampler, they will remain under his/her custody or be secured until they are relinquished.
- Shipped samples shall conform to all U.S. Department of Transportation (DOT) rules of shipment found in Title 49 of the Code of Federal Regulations (49 CFR parts 171 to 179), and/or International Air Transportation Association

(IATA) hazardous materials shipping requirements found in the current edition of IATA's Dangerous Goods Regulations.

- Documentation of field sampling is done in a bound logbook.
- Chain-of-custody documents shall be filled out and remain with the samples until custody is relinquished.
- All shipping documents, such as air bills, bills of lading, etc., shall be retained by the project leader in the project files.
- Sampling in landscaped areas: Cuttings should be placed on plastic sheeting and returned to the borehole upon completion of the sample collection. Any 'turf plug' generated during the sampling process should be returned to the borehole.
- Sampling in non-landscaped areas: Return any unused sample material back to the auger, drill or push hole from which the sample was collected.

2 Special Sampling Considerations

2.1 Special Precautions for Trace Contaminant Soil Sampling

- A clean pair of new, non-powdered, disposable gloves will be worn each time a different sample is collected and the gloves should be donned immediately prior to sampling. The gloves should not come in contact with the media being sampled and should be changed any time during sample collection when their cleanliness is compromised.
- Sample containers with samples suspected of containing high concentrations of contaminants shall be handled and stored separately.
- All background samples shall be segregated from obvious high-concentration or waste samples. Sample collection activities shall proceed progressively from the least suspected contaminated area to the most suspected contaminated area. Samples of waste or highly-contaminated media must not be placed in the same ice chest as environmental (i.e., containing low contaminant levels) or background samples.
- If possible, one member of the field sampling team should take all the notes and photographs, fill out tags, etc., while the other member(s) collect the samples.
- Samplers must use new, verified/certified-clean disposable or non-disposable equipment cleaned according to procedures contained in the SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205), for collection of samples for trace metals or organic compound analyses.

2.2 Sample Homogenization

1. If sub-sampling of the primary sample is to be performed in the laboratory, transfer the entire primary sample directly into an appropriate, labeled sample container(s). Proceed to step 4.

2. If sub-sampling the primary sample in the field or compositing multiple primary samples in the field, place the sample into a glass or stainless steel homogenization container and mix thoroughly. Each aliquot of a composite sample should be of the same approximate volume.

3. All soil samples must be thoroughly mixed to ensure that the sample is as representative as possible of the sample media. ***Samples for VOC analysis are not homogenized.*** The most common method of mixing is referred to as quartering. The quartering procedure should be performed as follows:

- The material in the sample pan should be divided into quarters and each quarter should be mixed individually.
- Two quarters should then be mixed to form halves.
- The two halves should be mixed to form a homogenous matrix.

  This procedure should be repeated several times until the sample is adequately mixed. If round bowls are used for sample mixing, adequate mixing is achieved by stirring the material in a circular fashion, reversing direction, and occasionally turning the material over.

4. Place the sample into an appropriate, labeled container(s) by using the alternate shoveling method and secure the cap(s) tightly. The alternate shoveling method involves placing a spoonful of soil in each container in sequence and repeating until the containers are full or the sample volume has been exhausted. Threads on the container and lid should be cleaned to ensure a tight seal when closed.

2.3 Dressing Soil Surfaces

Any time a vertical or near vertical surface is sampled, such as achieved when shovels or similar devices are used for subsurface sampling, the surface should be dressed (scraped) to remove smeared soil. This is necessary to minimize the effects of contaminant migration interferences due to smearing of material from other levels.

2.4 Quality Control

If possible, a control sample should be collected from an area not affected by the possible contaminants of concern and submitted with the other samples. This control sample should be collected as close to the sampled area as possible and from the same soil type. Equipment blanks should be collected if equipment is field cleaned and re-used on-site or if necessary to document that low-level contaminants were not introduced by sampling tools. SESD Operating Procedure for Field Sampling Quality Control (SESDPROC-011) contains other procedures that may be applicable to soil sampling investigations.

2.5 Records

Field notes, recorded in a bound field logbook, as well as chain-of-custody documentation will be generated as described in the SESD Operating Procedure for Logbooks (SESDPROC-010) and the SESD Operating Procedure for Sample and Evidence Management (SESDPROC-005).

3 Method 5035

The procedures outlined here are summarized from *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846, Method 5035.*

3.1 Soil Samples for Volatile Organic Compounds (VOC) Analysis

If samples are to be analyzed for VOCs, they should be collected in a manner that minimizes disturbance of the sample. For example, when sampling with an auger bucket, the sample for VOC analysis should be collected directly from the auger bucket (preferred) or from minimally disturbed material immediately after an auger bucket is emptied into the pan. The sample shall be containerized by filling an En Core® Sampler or other Method 5035 compatible container. ***Samples for VOC analysis are not homogenized.*** Preservatives may be required for some samples with certain variations of Method 5035. Consult the method or the principal analytical chemist to determine if preservatives are necessary.

3.2 Soil Sampling (Method 5035)

The following sampling protocol is recommended for site investigators assessing the extent of VOCs in soils at a project site. Because of the large number of options available, careful coordination between field and laboratory personnel is needed. The specific sampling containers and sampling tools required will depend upon the detection levels and intended data use. Once this information has been established, selection of the appropriate sampling procedure and preservation method best applicable to the investigation can be made.

3.2.1 Equipment

Soil for VOC analyses may be retrieved using any of the SESD soil sampling methods described in Sections 4 through 8 of this procedure. Once the soil has been obtained, the En Core® Sampler, syringes, stainless steel spatula, standard 2-oz. soil VOC container, or pre-prepared 40 mL vials may be used/required for sub-sampling. The specific sample containers and the sampling tools required will depend upon the data quality objectives established for the site or sampling investigation. The various sub-sampling methods are described below.

3.2.2 Sampling Methodology - Low Concentrations (<200 µg/kg)

When the total VOC concentration in the soil is expected to be less than 200 µg/kg, the samples may be collected directly with the En Core® Sampler or syringe. If using the syringes, the sample must be placed in the sample container (40 mL pre-prepared vial) immediately to reduce volatilization losses. The 40 mL vials should contain 10 mL of organic-free water for an un-preserved sample or approximately

10 mL of organic-free water and a preservative. It is recommended that the 40 mL vials be prepared and weighed by the laboratory (commercial sources are available which supply preserved and tared vials). When sampling directly with the En Core® Sampler, the vial must be immediately capped and locked.

A soil sample for VOC analysis may also be collected with conventional sampling equipment. A sample collected in this fashion must either be placed in the final sample container (En Core® Sampler or 40 mL pre-prepared vial) immediately or the sample may be immediately placed into an intermediate sample container with no head space. If an intermediate container (usually 2-oz. soil jar) is used, the sample must be transferred to the final sample container (En Core® Sampler or 40 mL pre-prepared vial) as soon as possible, not to exceed 30 minutes.

NOTE: After collection of the sample into either the En Core® Sampler or other container, the sample must immediately be stored in an ice chest and cooled.

Soil samples may be prepared for shipping and analysis as follows:

En Core® Sampler - the sample shall be capped, locked, and secured in the original foil bag. All foil bags containing En Core® samplers are then placed in a plastic bag and sealed with custody tape, if required.

Syringe - Add about 3.7 cc (approximately 5 grams) of sample material to 40-mL pre-prepared containers. Secure the containers in a plastic bag. Do not use a custody seal on the container; place the custody seal on the plastic bag. Note: When using the syringes, it is important that no air is allowed to become trapped behind the sample prior to extrusion, as this will adversely affect the sample.

Stainless Steel Laboratory Spatulas - Add between 4.5 and 5.5 grams (approximate) of sample material to 40 mL containers. Secure the containers in a plastic bag. Do not use a custody seal on the container; place the custody seal on the plastic bag.

3.2.3 Sampling Methodology - High Concentrations (>200 µg/kg)

Based upon the data quality objectives and the detection level requirements, this high level method may also be used. Specifically, the sample may be packed into a single 2-oz. glass container with a screw cap and septum seal. The sample container must be filled quickly and completely to eliminate head space. Soils\sediments containing high total VOC concentrations may also be collected as described in Section 3.2.2, Sampling Methodology - Low Concentrations, and preserved using 10 mL methanol.

3.2.4 Special Techniques and Considerations for Method 5035

Effervescence

If low concentration samples effervesce (rapidly form bubbles) from contact with the acid preservative, then either a test for effervescence must be performed prior to sampling, or the investigators must be prepared to collect each sample both preserved or un-preserved, as needed, or all samples must be collected unpreserved.

To check for effervescence, collect a test sample and add to a pre-preserved vial. If preservation (acidification) of the sample results in effervescence then preservation by acidification is not acceptable, and the sample must be collected un-preserved.

If effervescence occurs and only pre-preserved sample vials are available, the preservative solution may be placed into an appropriate hazardous waste container and the vials triple rinsed with organic free water. An appropriate amount of organic free water, equal to the amount of preservative solution, should be placed into the vial. The sample may then be collected as an un-preserved sample. Note: the amount of organic free water placed into the vials will have to be accurately measured.

Sample Size

While this method is an improvement over earlier ones, field investigators must be aware of an inherent limitation. Because of the extremely small sample size and the lack of sample mixing, sample representativeness for VOCs may be reduced compared to samples with larger volumes collected for other constituents. The sampling design and objectives of the investigation should take this into consideration.

Holding Times

Sample holding times are specified in the Analytical Support Branch *Laboratory Operations and Quality Assurance Manual* (ASBLOQAM), Most Recent Version. Field investigators should note that the holding time for an un-preserved VOC soil/sediment sample on ice is 48 hours. Arrangements should be made to ship the soil/sediment VOC samples to the laboratory by overnight delivery the day they are collected so the laboratory may preserve and/or analyze the sample within 48 hours of collection.

Percent Solids

Samplers must ensure that the laboratory has sufficient material to determine percent solids in the VOC soil/sediment sample to correct the analytical results to dry weight. If other analyses requiring percent solids determination are being performed upon the sample, these results may be used. If not, a separate sample (minimum of 2 oz.) for percent solids determination will be required. The sample collected for percent solids may also be used by the laboratory to check for preservative compatibility.

Safety

Methanol is a toxic and flammable liquid. Therefore, methanol must be handled with all required safety precautions related to toxic and flammable liquids. Inhalation of methanol vapors must be avoided. Vials should be opened and closed quickly during the sample preservation procedure. Methanol must be handled in a ventilated area. Use protective gloves when handling the methanol vials. Store methanol away from sources of ignition such as extreme heat or open flames. The vials of methanol should be stored in a cooler with ice at all times.

Shipping

Methanol and sodium bisulfate are considered dangerous goods, therefore shipment of samples preserved with these materials by common carrier is regulated by the U.S. Department of Transportation and the International Air Transport Association (IATA). The rules of shipment found in Title 49 of the Code of Federal Regulations (49 CFR parts 171 to 179) and the current edition of the IATA Dangerous Goods Regulations must be followed when shipping methanol and sodium bisulfate. Consult the above documents or the carrier for additional information. Shipment of the quantities of methanol and sodium bisulfate used for sample preservation falls under the exemption for small quantities.

The summary table on the following page lists the options available for compliance with SW846 Method 5035. The advantages and disadvantages are noted for each option. SESD's goal is to minimize the use of hazardous material (methanol and sodium bisulfate) and minimize the generation of hazardous waste during sample collection.

Table 1: Method 5035 Summary

OPTION	PROCEDURE	ADVANTAGES	DISADVANTAGES
1	Collect two 40 mL vials with ≈ 5 grams of sample, and one 2 oz. glass jar w/septum lid for screening, % moisture and preservative compatibility.	Screening conducted by lab.	Presently a 48-hour holding time for unpreserved samples. Sample containers must be tared.
2	Collect three En Core® samplers, and one 2 oz. glass jar w/septum lid for screening, % solids.	Lab conducts all preservation/preparation procedures.	Presently a 48- hour holding time for preparation of samples.
3	Collect two 40 mL vials with 5 grams of sample and preserve w/methanol or sodium bisulfate, and one 2-oz. glass jar w/septum lid for screening, % solids .	High level VOC samples may be composited. Longer holding time.	Hazardous materials used in the field. Sample containers must be tared.
4	Collect one 2-oz. glass jar w/septum lid for analysis, % solids (high level VOC only).	Lab conducts all preservation/preparation procedures.	May have significant VOC loss.

4 Manual Soil Sampling Methods

4.1 General

These methods are used primarily to collect surface and shallow subsurface soil samples. Surface soils are generally classified as soils between the ground surface and 6 to 12 inches below ground surface. The most common interval is 0 to 6 inches; however, the data quality objectives of the investigation may dictate another interval, such as 0 to 3 inches for risk assessment purposes. The shallow subsurface interval may be considered to extend from approximately 12 inches below ground surface to a site-specific depth at which sample collection using manual collection methods becomes impractical.

If a thick, matted root zone, gravel, concrete, etc. is present at or near the surface, it should be removed before the sample is collected. The depth measurement for the sample begins at the top of the soil horizon, immediately following any removed materials.

When compositing, make sure that each composite location (aliquot) consist of equal volumes, i.e., same number of equal spoonfuls.

4.2 Spoons

Stainless steel spoons may be used for surface soil sampling to depths of approximately 6 inches below ground surface where conditions are generally soft and non-indurated, and there is no problematic vegetative layer to penetrate.

4.2.1 Special Considerations When Using Spoons

- When using stainless steel spoons, consideration must be given to the procedure used to collect the volatile organic compound sample. If the soil being sampled is cohesive and holds its in situ texture in the spoon, the En Core® Sampler or syringe used to collect the sub-sample for Method 5035 should be plugged directly from the spoon. If, however, the soil is not cohesive and crumbles when removed from the ground surface for sampling, consideration should be given to plugging the sample for Method 5035 directly from the ground surface at a depth appropriate for the investigation Data Quality Objectives.

4.3 Hand Augers

Hand augers may be used to advance boreholes and collect soil samples in the surface and shallow subsurface intervals. Typically, 4-inch stainless steel auger buckets with cutting heads are used. The bucket is advanced by simultaneously pushing and turning using an attached handle with extensions (if needed).

4.3.1 Surface Soil Sampling

When conducting surface soil sampling with hand augers, the auger buckets may be used with a handle alone or with a handle and extensions. The bucket is advanced to the appropriate depth and the contents are transferred to the homogenization container for processing. Observe precautions for volatile organic compound sample collection found in Section 3, Method 5035.

4.3.2 Subsurface Soil Sampling

Hand augers are the most common equipment used to collect shallow subsurface soil samples. Auger holes are advanced one bucket at a time until the sample depth is achieved. When the sample depth is reached, the bucket used to advance the hole is removed and a clean bucket is attached. The clean auger bucket is then placed in the hole and filled with soil to make up the sample and removed.

The practical depth of investigation using a hand auger depends upon the soil properties and depth of investigation. In sand, augering is usually easily performed, but the depth of collection is limited to the depth at which the sand begins to flow or collapse. Hand augers may also be of limited use in tight clays or cemented sands. In these soil types, the greater the depth attempted, the more difficult it is to recover a sample due to increased friction and torqueing of the hand auger extensions. At some point these problems become so severe that power equipment must be used.

4.3.3 Special Considerations for Soil Sampling with the Hand Auger

- Because of the tendency for the auger bucket to scrape material from the sides of the auger hole while being extracted, the top several inches of soil in the auger bucket should be discarded prior to placing the bucket contents in the homogenization container for processing.
- Observe precautions for volatile organic compound (VOC) sample collection found in Section 3, Method 5035. Collect the VOC sample directly from the auger bucket, if possible.
- Power augers, such as the Little Beaver® and drill rigs may be used to advance boreholes to depths for subsurface soil sampling with the hand auger. They may not be used for sample collection. When power augers are used to advance a borehole to depth for sampling, care must be taken that exhaust fumes, gasoline and/or oil do not contaminate the borehole or area in the immediate vicinity of sampling.
- When moving to a new sampling location, the entire hand auger assembly must be replaced with a properly decontaminated hand auger assembly.

5 Direct Push Soil Sampling Methods

5.1 General

These methods are used primarily to collect shallow and deep subsurface soil samples. Three samplers are available for use within the Division's direct push tooling inventory. All of the sampling tools involve the collection and retrieval of the soil sample within a thin-walled liner. The following sections describe each of the specific sampling methods that can be accomplished using direct push techniques, along with details specific to each method. While SESD currently uses the sample tooling described, tooling of similar design and materials is acceptable.

If gravel, concrete, etc. is present at or near the surface, it should be removed before the sample is collected. The depth measurement for the sample begins at the top of the soil horizon, immediately following any removed materials. Turf grass is not typically removed prior to sampling with these devices.

5.2 Large Bore® Soil Sampler

The Large Bore® (LB) sampler is a solid barrel direct push sampler equipped with a piston-rod point assembly used primarily for collection of depth-discrete subsurface soil samples. The sample barrel is approximately 30-inches (762 mm) long and has a 1.5-inch (38 mm) outside diameter. The LB® sampler is capable of recovering a discrete sample core 22 inches x 1.0 inch (559 mm x 25 mm) contained inside a removable liner. The resultant sample volume is a maximum of 283 mL.

After the LB® sample barrel is equipped with the cutting shoe and liner, the piston-rod point assembly is inserted, along with the drive head and piston stop assembly. The assembled sampler is driven to the desired sampling depth, at which time the piston stop pin is removed, freeing the push point. The LB® sampler is then pushed into the soil a distance equal to the length of the LB® sample barrel. The probe rod string, with the LB® sampler attached, is then removed from the subsurface. After retrieval, the LB® sampler is then removed from the probe rod string. The drive head is then removed to allow removal of the liner and soil sample.

5.3 Macro-Core® Soil Sampler

The Macro-Core® (MC) sampler is a solid barrel direct push sampler equipped with a piston-rod point assembly used primarily for collection of either continuous or depth-discrete subsurface soil samples. Although other lengths are available, the standard MC® sampler has an assembled length of approximately 52 inches (1321 mm) with an outside diameter of 2.2 inches (56 mm). The MC® sampler is capable of recovering a discrete sample core 45 inches x 1.5 inches (1143 mm x 38 mm) contained inside a removable liner. The resultant sample volume is a maximum of 1300 mL. The MC® sampler may be used

in either an open-tube or closed-point configuration. Although the MC® sampler can be used as an open-barrel sampler, in SESD usage, the piston point is always used to prevent the collection of slough from the borehole sides.

5.4 Dual Tube Soil Sampling System

The Dual Tube 21 soil sampling system is a direct push system for collecting continuous core samples of unconsolidated materials from within a sealed outer casing of 2.125-inch (54 mm) OD probe rod. The samples are collected within a liner that is threaded onto the leading end of a string of 1.0-inch diameter probe rod. Collected samples have a volume of up to 800 mL in the form of a 1.125-inch x 48-inch (29 mm x 1219 mm) core. Use of this method allows for collection of continuous core inside a cased hole, minimizing or preventing cross-contamination between different intervals during sample collection. The outer casing is advanced, one core length at a time, with only the inner probe rod and core being removed and replaced between samples. If the sampling zone of interest begins at some depth below ground surface, a solid drive tip must be used to drive the dual tube assembly and core to its initial sample depth.

5.5 Special Considerations When Using Direct Push Sampling Methods

- *Liner Use and Material Selection* – Direct Push Soil Samples are collected within a liner to facilitate removal of sample material from the sample barrel. The liners may only be available in a limited number of materials for a given sample tool, although overall, liners are available in brass, stainless steel, cellulose acetate butyrate (CAB), polyethylene terepthalate glycol (PETG), polyvinyl chloride (PVC) and Teflon®. For most SESD investigations, the standard polymer liner material for a sampling tool will be acceptable. When the study objectives require very low reporting levels or unusual contaminants of concern, the use of more inert liner materials such as Teflon® or stainless steel may be necessary.

- *Sample Orientation* – When the liners and associated sample are removed from the sample tubes, it is important to maintain the proper orientation of the sample. This is particularly important when multiple sample depths are collected from the same push. It is also important to maintain proper orientation to define precisely the depth at which an aliquot was collected. Maintaining proper orientation is typically accomplished using vinyl end caps. Convention is to place red caps on the top of the liner and black caps on the bottom to maintain proper sample orientation. Orientation can also be indicated by marking on the exterior of the liner with a permanent marker.

- *Core Catchers* – Occasionally the material being sampled lacks cohesiveness and is subject to crumbling and falling out of the sample liner. In cases such as these, the use of core catchers on the leading end of the sampler may help

retain the sample until it is retrieved to the surface. Core catchers may only be available in specific materials and should be evaluated for suitability. However, given the limited sample contact that core-catchers have with the sample material, most standard core-catchers available for a tool system will be acceptable.

- *Decontamination* – The cutting shoe and piston rod point are to be decontaminated between each sample, using the procedures specified for the collection of trace organic and inorganic compounds found in Field Equipment and Decontamination – SESDPROC-205, most recent version. Within a borehole, the sample barrel, rods, and drive head may be subjected to an abbreviated cleaning to remove obvious and loose material, but must be cleaned between boreholes using the procedures specified for downhole drilling equipment in Field Equipment and Decontamination – SESDPROC-205, most recent version.

- *Decommissioning* – Boreholes must be decommissioned after the completion of sampling. Boreholes less than 10 feet deep that remain open and do not approach the water table may be decommissioned by pouring 30% solids bentonite grout from the surface or pouring bentonite pellets from the surface, hydrating the pellets in lifts. Boreholes deeper than 10 feet, or any borehole that intercepts groundwater, must be decommissioned by pressure grouting with 30% solids bentonite grout, either through a re-entry tool string or through tremie pipe introduced to within several feet of the borehole bottom.

- *VOC Sample Collection* – Observe precautions for volatile organic compound sample collection found in Section 3 of this procedure.

6 Split Spoon/Drill Rig Methods

6.1 General

Split spoon sampling methods are used primarily to collect shallow and deep subsurface soil samples. All split spoon samplers, regardless of size, are basically split cylindrical barrels that are threaded on each end. The leading end is held together with a beveled threaded collar that functions as a cutting shoe. The other end is held together with a threaded collar that serves as the sub used to attach the spoon to the string of drill rod. Two basic methods are available for use, including the smaller diameter standard split spoon, driven with the drill rig safety hammer, and the larger diameter continuous split spoon, advanced inside and slightly ahead of the lead auger during hollow stem auger drilling. The following sections describe each of the specific sampling methods, along with details specific to each method.

If gravel, concrete, etc. is present at or near the surface, it should be removed before the sample is collected. The depth measurement for the sample begins at the top of the soil horizon, immediately following any removed materials. Turf grass is not typically removed prior to sampling with these devices.

6.2 Standard Split Spoon

A drill rig is used to advance a borehole to the target depth. The drill string is then removed and a standard split spoon is attached to a string of drill rod. Split spoons used for soil sampling must be constructed of stainless steel and are typically 2.0-inches OD (1.5-inches ID) and 18-inches to 24-inches in length. Other diameters and lengths are common and may be used if constructed of the proper material. After the spoon is attached to the string of drill rod, it is lowered into the borehole. The safety hammer is then used to drive the split spoon into the soil at the bottom of the borehole. After the split spoon has been driven into the soil, filling the spoon, it is retrieved to the surface, where it is removed from the drill rod string and opened for sample acquisition.

6.3 Continuous Split Spoon

The continuous split spoon is a large diameter split spoon that is advanced into the soil column inside a hollow stem auger. Continuous split spoons are typically 3 to 5 inches in diameter and either 5 feet or 10 feet in length, although the 5-foot long samplers are most common. After the auger string has been advanced into the soil column a distance equal to the length of the sampler being used it is returned to the surface. The sampler is removed from inside the hollow stem auger and the threaded collars are removed. The split spoon is then opened for sampling.

6.4 Special Considerations When Using Split Spoon Sampling Methods

- Always discard the top several inches of material in the spoon before removing any portion for sampling. This material normally consists of borehole wall material that has sloughed off of the borehole wall after removal of the drill string prior to and during inserting the split spoon.
- Observe precautions for volatile organic compound sample collection found in Section 3, Method 5035.

7 Shelby Tube/Thin-Walled Sampling Methods

7.1 General

Shelby tubes, also referred to generically as thin-walled push tubes or Acker thin-walled samplers, are used to collect subsurface soil samples in cohesive soils and clays during drilling activities. In addition to samples for chemical analyses, Shelby tubes are also used to collect relatively undisturbed soil samples for geotechnical analyses, such as hydraulic conductivity and permeability, to support hydrogeologic characterizations at hazardous waste and other sites.

If gravel, concrete, etc. is present at or near the surface, it should be removed before the sample is collected. The depth measurement for the sample begins at the top of the soil horizon, immediately following any removed materials. Turf grass is not typically removed prior to sampling with this device.

7.2 Shelby Tube Sampling Method

A typical Shelby tube is 30 inches in length and has a 3.0-inch OD (2.875-inch ID) and may be constructed of steel, stainless steel, galvanized steel, or brass. They also typically are attached to push heads that are constructed with a ball-check to aid in holding the contained sample during retrieval. If used for collecting samples for chemical analyses, it must be constructed of stainless steel. If used for collecting samples for standard geotechnical parameters, any material is acceptable.

To collect a sample, the tube is attached to a string of drill rod and is lowered into the borehole, where the sampler is then pressed into the undisturbed material by hydraulic force. After retrieval to the surface, the tube containing the sample is then removed from the sampler head. If samples for chemical analyses are needed, the soil contained inside the tube is then removed for sample acquisition. If the sample is collected for geotechnical parameters, the tube is typically capped, maintaining the sample in its relatively undisturbed state, and shipped to the appropriate geotechnical laboratory.

7.3 Special Considerations When Using Split Spoon Sampling Methods

Observe precautions for volatile organic compound sample collection found in Section 3, Method 5035.

8 Backhoe Sampling Method

8.1 General

Backhoes may be used in the collection of surface and shallow subsurface soil samples. The trenches created by excavation with a backhoe offer the capability of collecting samples from very specific intervals and allow visual correlation with vertically and horizontally adjacent material. If possible, the sample should be collected without entering the trench. Samples may be obtained from the trench wall or they may be obtained directly from the bucket at the surface. The following sections describe various techniques for safely collecting representative soil samples with the aid of a backhoe.

The depth measurement for the sample begins at the top of the soil horizon.

8.2 Scoop-and-Bracket Method

If a sample interval is targeted from the surface, it can be sampled using a stainless steel scoop and bracket. First a scoop and bracket are affixed to a length of conduit and is lowered into the backhoe pit. The first step is to take the scoop and scrape away the soil comprising the surface of the excavated wall. This material likely represents soil that has been smeared by the backhoe bucket from adjacent material. After the smeared material has been scraped off, the original stainless steel scoop is removed and a clean stainless steel scoop is placed on the bracket. The clean scoop can then be used to remove sufficient volume of soil from the excavation wall to make up the required sample volume.

8.3 Direct-from-Bucket Method

It is also possible to collect soil samples directly from the backhoe bucket at the surface. Some precision with respect to actual depth or location may be lost with this method but if the soil to be sampled is uniquely distinguishable from the adjacent or nearby soils, it may be possible to characterize the material as to location and depth. In order to ensure representativeness, it is also advisable to dress the surface to be sampled by scraping off any smeared material that may cross-contaminate the sample.

8.4 Special Considerations When Sampling with a Backhoe

- Do not physically enter backhoe excavations to collect a sample. Use either procedure 8.2, Scoop-and-Bracket Method, or procedure 8.3, Direct-from-Bucket Method to obtain soil for sampling.
- Smearing is an important issue when sampling with a backhoe. Measures must be taken, such as dressing the surfaces to be sampled (see Section 2.3), to mitigate problems with smearing.

- Paint, grease and rust must be removed and the bucket decontaminated prior to sample collection.
- Observe precautions for volatile organic compound sample collection found in Section 3, Method 5035.

Appendix C.
Proposal for Environmental Site Assessment

AECOM
5925 Carnegie Boulevard, Suite 370
Charlotte, NC 28209

704-553-6150 tel
704-553-6151 fax

January 12, 2015

Jimmy D. Jordan, PG
Environmental Affairs Manager
Charlotte Douglas International Airport
Sent via email to jdjordan@cltairport.com

Subject: Proposal for Environmental Site Assessment and Pre-Demolition Asbestos Surveys of CLT Rental Car Sites, Tasks C, D and E

Dear Mr. Jordan,

AECOM Technical Services of North Carolina, Inc. (AECOM) is pleased to present this proposal to the Charlotte Douglas International Airport (CLT) that describes the work to be conducted at the CLT Rental Car Facilities (site or subject property). Specifically, this proposal covers costs for Task C and Task D as described in the Request for Qualifications (RFQ) dated September 18, 2014. In addition, AECOM is including Task E, which covers costs and work scope for the conducting of an asbestos survey for each of the rental car facilities.

This proposal also incorporates the areas of concern (AOCs) identified during the File Review and Site Visit conducted on December 4, 2014. The following table identifies each AOC:

Table 1: Areas of Concern

Car Rental Facility	Gasoline UST or AST + dispensers	Diesel UST or AST + dispensers	Motor oil / ATF UST or AST	Used Oil UST or AST	Oil Water Separator UST	Others
Avis	2 removed, 1x12,000 gal current		550-gallon removed UST	550-gallon removed UST	Car wash	
Hertz	1x10,000-gallon UST, 1x20,000-gallon UST open release from dispenser	1 AST	2,000-gallon UST	550 gallon UST	Reportedly out of service	
National	2x10,000-gallon UST (out of service) 1 AST	1 AST	1x550-gallon UST, removed	1x550-gallon UST, removed	Car wash	

Car Rental Facility	Gasoline UST or AST + dispensers	Diesel UST or AST + dispensers	Motor oil / ATF UST or AST	Used Oil UST or AST	Oil Water Separator UST	Others
Advantage	1x10,000-gallon UST removed 1x10,000-gallon					Hydraulic lift removed, incident 85116. 500-gal non-regulated UST in 1964?
Payless	1x10,000-gallon UST removed 1x8,000-gallon UST out of service			1x550-gallon removed.	Suspected OWS at same location as used oil OWS	
Budget	2x10,000-gal USTs removed 1x12,000-gal UST current				Yes	
Dollar	1x12,000-gal UST current Reportedly 1x10,000-gallon UST removed	1x4,000-gal diesel UST			Yes	
Enterprise	1 AST				Suspected	

Task C: Conduct Intrusive Subsurface Investigation at the eight CLT Car Rental Facilities

AECOM will conduct intrusive investigative activities at the eight CLT car rental facilities. The scope of work is broken down as follows:

Utility location.

At least 72 hours prior to conducting intrusive activities, AECOM will notify North Carolina One Call (NC811) public utility locating service. In addition, AECOM will hire a professional utility locating

provider (Probe Utility, Inc. of Concord, NC) to further identify subsurface utilities. If available, drawings maintained by Charlotte Mecklenburg Utilities or CLT will be reviewed.

The private utility locator will use ground penetrating radar (GPR) and electromagnetic (EM) locating to determine the locations of the UST fields, piping runs, and underground utilities including but not limited to electric, storm sewer, sanitary sewer, communications, and natural gas. The utility locator will locate utilities in the vicinity of the proposed borings provided to him on a map by AECOM that have also been approved by you.

Soil sample collection, installation of temporary wells.

AECOM will subcontract Probe Technology Inc. (PTI) to advance soil borings and install temporary monitoring wells at each AOC. An on-site geologist will oversee the advancement of soil borings and installation of monitoring wells; a technician will additionally assist in sample collection and lab management process. Costs assume field work will be completed in eight working days.

The AOC's were identified during the site visit and file review conducted on December 4, 2014. The AOCs are shown on the attached Figures (Exhibit A through H, markups of the figures provided in the RFQ) and on the above Table 1, and consist of gasoline USTs and above-ground storage tanks (ASTs); diesel USTs and ASTs; new motor oil, automatic transmission fluid, and used oil USTs; and oil water separators.

Soil borings will be advanced to the top of the water table (estimated 12 to 15 feet below ground surface [bgs]). Continuous soil samples will be collected, and representative portions of each section will be placed in an air-tight container (ziplock bag) and screened with an organic vapor analyzer (OVA). Up to two samples will be collected for laboratory analysis per boring: one sample will be collected from the depth exhibiting the highest OVA reading, and a second sample will be collected from above the water table. If no elevated OVA readings are encountered, a sample will only be collected from above the water table. Soil samples will be analyzed in accordance with Table 3 of *Guidelines for Assessment and Corrective Action for UST Releases* (NCDENR, December 2013) (*Guidelines*); analyses will be dependent on the reason the AOC was identified, as summarized in Table 2 below. Soil samples will be placed in laboratory-supplied glassware, labelled immediately, and packed into a cooler, on ice, for transportation to the laboratory (Prism Laboratories, Inc. of Charlotte, North Carolina [Prism], a North Carolina-certified laboratory). Prism will provide daily sample pickup.

AECOM proposes to install an estimated 33 temporary monitoring wells as shown on the attached Exhibit A through Exhibit H; additional wells will be installed if existing monitoring wells cannot be sampled. Each temporary monitoring well will be installed by a North Carolina-Certified Well Driller (PTI) in accordance with 15A NCAC 2C.0100 to an estimated total depth of 20 feet bgs; exact depth will be determined based on field conditions to enable the collection of a representative groundwater sample. The temporary monitoring wells will be abandoned by the driller at the completion of field activities.

Groundwater sampling.

Groundwater samples will be collected from several existing monitoring wells (not including compliance monitoring wells) and all temporary monitoring wells. Groundwater sampling will be completed by a technician. Temporary monitoring wells will be allowed to stabilize for at least 24 hours prior to sample collection.

Existing monitoring wells were observed at Hertz (11 wells), National (3 wells) and former Payless (1 well). Due to recent analytical data at Hertz (facility sampled semi-annually due to an open UST incident), selected monitoring wells will be sampled only if they are adjacent to a non-gasoline UST or above-ground storage tank (AST). At the National facility, two wells are located in former UST fields; incidents associated with these wells are closed and therefore the wells will not be sampled. One well at the National facility will be sampled, as it is near the active dispensers. The existing well at Payless will be sampled.

Prior to sampling, depth to water in each existing and temporary well will be gauged. Groundwater samples will be collected using low flow techniques, with purge rates of 200 milliliters per minute or less and samples collected after turbidity is less than 10 NTUs (or turbidity is stable for 3 consecutive readings) and temperature, dissolved oxygen, oxidation-reduction potential, conductivity stabilize to within +/- 10 percent over three readings. Samples will be analyzed for the appropriate compounds in Table 5 of the *Guidelines* and as summarized below.

Table 2: Analytical Methods for each Area of Concern

Suspected Contaminant (Area of Concern)	**Soil Analytes**	**Groundwater Analytes**
Low Boiling Point Fuels (Gasoline UST or AST)	TPH-GRO VOCs via 8260B	VOCs via 6200B MADEP VPH Pb
Medium/High Boiling Point Fuels (Diesel UST or AST)	TPH-GRO TPH-DRO	VOCs via 602 + xylenes SVOCs via 625 + 10 TICs MADEP VPH MADEP EPH
Heavy Fuels (motor oil, hydraulic fluid, automatic transmission fluid)	TPH-DRO	SVOCs via 625 + 10 TICs MADEP EPH
Used / Waste Oil (Oil water separator, used oil UST or AST)	VOCs via 8260B SVOCs via 8270D MADEP VPH MADEP EPH Cr and Pb	VOCs via 6200B SVOCs via 625 + 10 TICs MADEP VPH MADEP EPH Cr and Pb

TPH- total petroleum hydrocarbons
GRO-gasoline range organics
DRO-diesel range organics
VOCs-volatile organic compounds
SVOCs-semi volatile organic compounds
MADEP-Massachusetts Department of Environmental Protection
VPH-volatile petroleum hydrocarbons
EPH-extractable petroleum hydrocarbons
TIC-tentatively identified compound

Groundwater samples will be placed in laboratory-supplied glassware, labelled immediately, and packed into a cooler, on ice, for transportation to the laboratory (Prism). Prism will provide daily sample pickup via courier.

Quality Assurance / Quality Control (QA/QC).

At least one field duplicate will be collected per twenty samples (at least 1 per day). In addition, a trip blank (VOCs only) will be included with each cooler sent to the lab, and one equipment blank (VOCs only) will be collected from the drilling equipment each day.

Investigative Derived Waste (IDW).

Costs for offsite disposal of soil and groundwater is not included in this proposal. Any soil or groundwater IDW generated will be containerized in 55-gallon drums during the investigation. CLT will be responsible for the disposal of the IDW once analytical results are received.

Surveying.

Location of the temporary monitoring wells and soil borings will be surveyed using a backpack GPS unit, such as a Yuma. Top of casing elevations of temporary monitoring wells will be surveyed by the field crew to a relative benchmark. Additional points will not be surveyed.

Determination of Hydrogeological Conditions.

A groundwater gauging event will be conducted at each facility. All existing (excluding compliance monitoring wells) and temporary monitoring wells at a single car rental facility will be gauged in a single day. The depth to water/liquid will be measured using an interface probe to the nearest $1/100^{th}$ foot. The data collected will be used to create a top of groundwater surface for each rental car facility.

Task D: Preparation and Submittal of a Report for the Intrusive Subsurface Assessment

A single report shall be generated that summarizes all aspects of the assessment. Though the report is not a Limited Site Assessment (LSA) as described in the *Guidelines*, the report will incorporate required elements of the LSA report format in Appendix A of the *Guidelines*. The report will be organized as follows:

- Title page with PE or LG seal and signature (LSA Report Section A.4)
- Table of Contents (LSA Report Section C)
- Executive Summary (LSA Report Section B)
- Section 1: Introduction
- Section 2: General description of the field methods used (soil and groundwater sampling techniques; well installation, sampling, and abandonment; laboratory analyses; and quality control) (portion of LSA Report Section I)
- Section 3: Results of the investigation by car rental facility. For each car rental facility, the following data will be included:
    - Site Information (LSA Report Section A)
    - Site History and Characterization (LSA Report Section D)
    - Sampling Results (portion of LSA Report Section I)
    - Free Product Investigation and Recovery (LSA Report Section K, if applicable)
    - Conclusions and recommendations (LSA Report Section J)
- Section 4: Limited Site Assessment Risk Classification and Land Use Form (LSA Report Section E)

- Section 5: Receptor Information (LSA Report Section F). Receptor information will be determined within 1,500 feet of the car rental facilities.
- Section 6: Conclusions and Recommendations (site-wide)
- Figures, Tables, and Appendices will be specific to the car rental facility or site-wide, as appropriate. Figures will include a base map showing well and boring locations, groundwater elevations, and contaminant concentrations (presented in text boxes).

Costs assume that one paper and one electronic copy of the report will be provided to CLT for draft review, and one paper and one electronic copy of the final report will be provided to CLT.

Task E: Asbestos Survey and Reporting for Car Rental Facilities

Based upon knowledge of the subject property being scheduled for re-development, AECOM will also evaluate the potential for the presence of Asbestos Containing Materials (ACM) at the CLT Rental Car Facilities. A pre-demolition asbestos survey will be conducted onsite in accordance with the regulations set forth in the federal National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR 61.145(a). Under NESHAP, an asbestos inspection is required for **ALL** suspect building materials anticipated to be affected by the demolition or renovation process. For light commercial buildings, the materials typically encountered include, but are not limited to, the following:

- Floor tile and associated mastics;
- Carpet mastics;
- Drywall, tape and joint compound;
- Levelling compound
- Popcorn ceiling/spackle;
- Window caulk/glazing;
- Cove base and associated mastic;
- Spray-on fireproofing (non-fiberglass);
- Muds and glues for backing purposes;
- Pipe insulation (non-fiberglass); and,
- Roofing, roof patches, silver paint, roof caulk and roof paper;

AECOM will conduct the survey by identifying the suspect materials at each CLT rental car facility; determining their color, texture and condition; and collecting bulk samples of suspect friable and non-friable ACM encountered in accordance with North Carolina and Federal guidelines pertaining to pre-demolition building inspections. Thus, AECOM will perform destructive sampling and access all areas onsite made available by CLT, including building and canopy areas. If any areas are deemed inaccessible for any reason by AECOM during the scheduled site visit (i.e., locked doors, inadequate roof access, etc.), communications will be made to the appropriate CLT or CLT rental car facility representatives to arrange an additional site visit to access these areas.

For asbestos surveys, the sampling quantity is determined by the regulations set forth in the Asbestos Hazard Emergency Response Act (AHERA) for each identified homogeneous area (HA), which is defined as those materials that are determined by the inspector to be uniform in color and texture. Sample quantity requirements are as follows:

Building Material Type	Number of Samples per HA
Thermal System Insulation (TSI)	
Boiler Insulation	3
Pipe Runs (water, steam, chemical)	3
T's, valves, elbows	2
Patches (6 square feet or less)	1
Surfacing Materials (Those that are sprayed on or troweled on)	≤ 1,000 square feet = 3
	> 1,000 square feet ≤ 5,000 square feet = 5
	> 5,000 square feet = 7
Miscellaneous	
Flooring	All misc. ≥ 2 samples or sufficient to determine positive or negative
Roofing	
Transite fencing/siding/walls	
Wallboard	
Anything that does not fit in the above categories	

The quantity of bulk samples collected will be determined during the survey, based upon the amount and type of HAs identified. However, for estimating purposes, AECOM anticipates the collection of approximately sixty (60) samples at each rental car facility (total of 480 samples) to complete the survey. Samples will be analyzed by a certified laboratory by Polarized Light Microscopy (PLM) and dispersion staining. Bulk samples will be collected by an AHERA certified building inspector licensed through the North Carolina Department of Public Health and Human Services, Division of Public Health, Health Hazards Control Unit. Bulk samples collected beyond the proposed quantity of 60 per rental car facility will be billed at a rate of $30 per sample (cost includes sample collection, laboratory analysis, and reporting, assuming a separate mobilization is not required). AECOM will contact CLT for authorization prior to collecting additional samples. The cost to prepare an Operations and Maintenance Plan is not included in this proposal.

Once all data is provided by the laboratory to AECOM, a letter report will be provided to CLT documenting the results of the survey, including, but not limited to, the following:

- Summary of survey activities;
- Types of materials evaluated for the presence of ACM;
- Laboratory analytical results;
- Location and condition of ACM;
- and,
- Conclusions and recommendations for abatement (if necessary).

Based on the date of construction (1982 or later, based on information obtained online from the Charlotte-Mecklenburg County Polaris3g mapping service), it is unlikely that lead paint, which was banned from use in the late 1970s, is present in the subject building. However, if desired, a lead-based paint (LBP) survey could be conducted at some or all CLT rental car facilities concurrently

with the pre-demolition asbestos survey. The survey would include the collection of two (2) paint samples per painted area of similar color and age. The quantity of paint samples collected will be determined during the survey. However, for estimating purposes, AECOM anticipates approximately ten (10) samples would be collected per rental car facility. . Each sample will be analyzed by a certified laboratory for lead via EPA Method SW 846 3050B/7000B. Samples will be billed at a rate of $50 per sample, inclusive of laboratory analysis, labor, and reporting costs if the sampling is completed during the asbestos survey. Note that costs for LBP sampling are not included in this proposal, and will only be conducted with CLT approval.

Owner Allowance

A 10% “Owner Allowance” is included in the proposed costs for additional assessment activities conducted at the Owner’s request.

Assumptions

Assumptions in the cost proposal include the following:

- Field activities will be conducted Monday through Friday during normal business hours.
- AECOM and its contractors will have full access to the work areas.
- Changes to boring locations will be based on access limitations due to underground or overhead utilities.
- Drilling activities will be conducted by a staff geologist (drilling oversight, logging soils, and determination of sampling interval) and one technician (sampling assistance). The staff geologist and technician will also survey the temporary monitoring wells at each site after installation is complete.
- Groundwater gauging and sampling activities will be conducted by a technician. The groundwater gauging and sampling activities will be conducted after the temporary monitoring well has stabilized for at least 24 hours.
- Scope of work does not include delineation of soil or groundwater impacts. If additional days of drilling are requested by CLT due to field observations, or if significant delays are caused by unforeseen site conditions, each additional day will be billed at $5,000, which will include the onsite staff geologist, onsite technician, and PTI. Due to the wide range of possible analytes, laboratory costs are not included in this daily rate. Laboratory costs will be billed at the laboratory rate + markup. A half day will be billed at $3,250.
- If weather conditions will cause a delay of a full day or more, additional costs for remobilization of subcontractors and staff will be required; such authorizations will be presented for approval during the course of work.
- Drilling costs include: mobilization cost; 8 days of soil boring/well installation; installation and abandonment of 33 temporary monitoring wells and 11 soil borings; and containerization of soil cuttings and decontamination fluids.
- Soil and groundwater analytical samples will be submitted on a standard 7-day turn-around time.
- Soil and groundwater IDW will be containerized or stockpiled, for disposal by CLT.
- CLT owns or controls the properties within 1,500 feet of the car rental facilities
- Figures for the subsurface investigation will be generated using geo-referenced aerial photographs, and the surveyed locations of the borings / temporary monitoring wells. Three final figures will be generated for each site: groundwater elevation map; soil concentration map; and groundwater concentration map.

- Soil boring logs will be included as an appendix. A cross-section figure will not be generated.
- CLT will report any releases to the North Carolina Department of Environment and Natural Resources (NCDENR).
- QA/QC sampling during the sub-surface investigation will consist of the collection of field duplicates (one per 20 samples), daily equipment blanks (VOCs only), and submittal of trip blanks (VOCs) with each cooler. Detections in the equipment blanks and trip blanks will be noted in the report. Duplicate sampling data will be presented in the tables with the primary sample data. Further data validation will not be conducted.
- Asbestos sampling will be conducted by two personnel, an AHERA-certified building inspector (staff scientist) to conduct the sampling and field technician to assist in sample management.
- Asbestos sampling will be conducted in accordance with NESHAP regulations. AECOM assumes personnel will have full access to the entire car rental facility, including but not limited to common areas, offices, warehouses, inside ceilings, roofs, and canopies. Though AECOM personnel will attempt to limit the visibility of the sampled locations, the asbestos sampling, by its nature, is destructive.
- The asbestos report will be submitted separately from the intrusive subsurface investigation report.
- If more than 480 samples (average of 60 samples per facility) are required, samples will be billed at a cost of $30 per sample, inclusive of sample collection, laboratory analysis, and reporting. The rate of $30 per sample assumes a separate mobilization is not required.
- Costs for LBP sampling are not included in this proposal. If LBP sampling is desired during the asbestos survey, samples will be billed at $50 per sample, inclusive of sample collection, laboratory analysis, and reporting. The cost assumes LBP sampling will be conducted during the asbestos survey, and the analytical results will be included with the asbestos survey.

Proposed Schedule

The proposed schedule below gives an estimated time line, and assumes field work can be scheduled within 3 weeks of receiving funding approval.

Activity	**Project Day (5 days = 1 week)**
Project Funding Received	Day 0
Investigative Activities and Sampling	Day 15 - 25
Receipt of final analytical data	Day 22 - 32
Draft report for CLT Review	Day 52 (4 weeks after all data is received)
Final report for CLT	10 business days of comments.

Costs

The proposed Tasks C, D and E will be completed on a time and materials basis, with costs not to exceed $147,595.80. This cost includes the 10% Owner Allowance of $13,417.80.

Please contact the undersigned with any questions or concerns.

Yours sincerely,

Michelle Friedman, P.G.
Project Geologist
Michelle.Friedman@aecom.com

Eric P. Sanderson, P.E.
Project Manager
Rick.Sanderson@aecom.com

Enclosure:
Table 1 – Task C and D Cost Spreadsheet
Exhibit A to H – sampling plan

PC: Thomas Marr, P.G. Deputy Project Manager

Table 1
Task C and D Cost Table

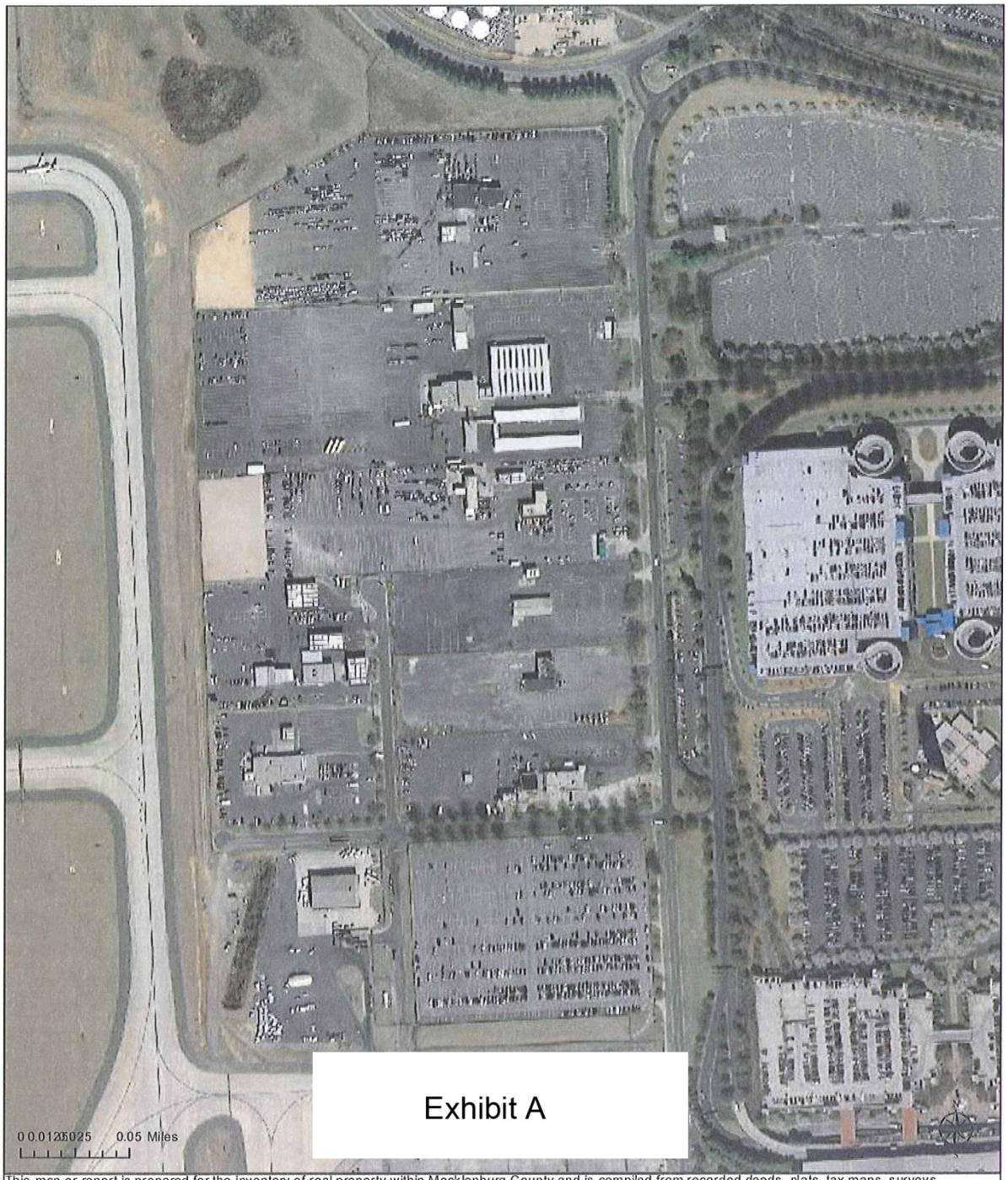
Tasks	Project Director $175 Hours	Project Director $175 Rate	Project Manager $155 Hours	Project Manager $155 Rate	Professional Geologist (Scientist III) $110 Hours	Professional Geologist (Scientist III) $110 Rate	Staff Geologist (Scientist II) $95 Hours	Staff Geologist (Scientist II) $95 Rate	Field Technician (Technician II) $70 Hours	Field Technician (Technician II) $70 Rate	CAD (Data Administrator II) $95 Hours	CAD (Data Administrator II) $95 Rate	Project Administrator I $55 Hours	Project Administrator I $55 Rate	ODCs Units	ODCs Rate	Subcontractor Unit of Measure	Subcontractor Cost per Unit	Subcontractor Units	Subcontractor Total Fee	Total Fee Hours	Total Fee Rate
Task C - Intrusive Investigation																						
Health and Safety Plan	1	$ 175.00	1	$ 155.00	2	$ 220.00	8	$ 760.00		$ -		$ -		$ -							12	$ 1,310.00
Utility Location		$ -		$ -	4	$ 440.00		$ -		$ -		$ -		$ -			Site	$ 560.00	8.0	$ 4,480.00	4	$ 4,920.00
Field work: DPT work and surveying		$ -		$ -		$ -	84	$ 7,980.00	84	$ 5,880.00		$ -		$ -	1	$ 2,500.00	Scope	$ 17,073.00	1.0	$ 17,073.00	168	$ 33,433.00
Field work: gauging and sampling		$ -		$ -		$ -		$ -	58	$ 4,060.00		$ -		$ -	1	$ 5,000.00					58	$ 9,060.00
Field work prep/coordination/data review	2	$ 350.00	4	$ 620.00	27	$ 2,970.00	4	$ 380.00	4	$ 280.00		$ -	8	$ 440.00							49	$ 5,040.00
Laboratory Costs (assumes 7 day standard TAT)		$ -		$ -	4	$ 440.00		$ -		$ -		$ -		$ -			Scope	$ 37,800.00	1.0	$ 37,800.00	4	$ 38,240.00
																					0	$ -
Total Task C	3	$ 525.00	5	$ 775.00	37	$ 4,070.00	96	$ 9,120.00	146	$ 10,220.00	0	$ -	8	$ 440.00	2	$ 7,500.00				$ 59,353.00	295	$ 92,003.00
Task D: Preparation and Submittal of a Report																						
Draft Report Preparation	3	$ 525.00	8	$ 1,240.00	30	$ 3,300.00	72	$ 6,840.00		$ -	28	$ 2,660.00	6	$ 330.00	1	$ 100.00					147	$ 14,995.00
Final Report Preparation and Submittal	2	$ 350.00	2	$ 310.00	4	$ 440.00	12	$ 1,140.00		$ -	4	$ 380.00	2	$ 110.00	1	$ 100.00					26	$ 2,830.00
Total Task D	5	$ 875.00	10	$ 1,550.00	34	$ 3,740.00	84	$ 7,980.00	0	$ -	32	$ 3,040.00	8	$ 440.00	2	$ 200.00				$ -	173	$ 17,825.00
Task E: Asbestos Surveys for Each Rental Car Facility																						
Field Work: Survey and Sample Collection		$ -		$ -		$ -	64	$ 6,080.00	64	$ 4,480.00		$ -		$ -	8	$ 100.00					128	$ 10,660.00
Field work prep/coordination/data review		$ -		$ -		$ -	6	$ 570.00	2	$ 140.00		$ -		$ -							8	$ 710.00
Draft Report Preparation	2	$ 350.00	4	$ 620.00		$ -	24	$ 2,280.00	24	$ 1,680.00	16	$ 1,520.00		$ -							70	$ 6,450.00
Final Report Preparation and Submittal	2	$ 350.00	2	$ 310.00	2	$ 220.00	4	$ 380.00	4	$ 280.00	4	$ 380.00	2	$ 110.00	1	$ 100.00					20	$ 2,130.00
Laboratory Analytical Costs (assuming 5-day TAT)		$ -		$ -		$ -		$ -		$ -		$ -		$ -			Scope	$ 550.00	8.0	$ 4,400.00	0	$ 4,400.00
Total Task E	4	$700.00	6	$930.00	2	$220.00	98	$9,310.00	94	$6,580.00	20	$1,900.00	2	$110.00	9	$200.00				$ 4,400.00	226	$ 24,350.00
Project Totals																						
FEE	12	$ 2,100.00	21	$ 3,255.00	73	$ 8,030.00	278	$ 26,410.00	240	$ 16,800.00	52	$ 4,940.00	18	$ 990.00							694	$ 62,525.00
ODCs																$ 7,900.00						$ 7,900.00
Subcontractors																				$ 63,753.00		$ 63,753.00
Subtotal																						**$ 134,178.00**
Owner Allowance																						**$ 13,417.80**
Total																						**$ 147,595.80**

ODCs = other direct charges
ODCs may include, but is not limited to, the following:
- Car rental/mileage
- Equipment rental
- 55-gallon drum (not provided by subcontractor)
- Field sampling supplies
- Printing costs

Owner Allowance - 10% of the fee (Subtotal) is included for additional assessment activities conducted at the Owner's request

Polaris 3G Map – Mecklenburg County, North Carolina
CLT Rental Car Tenants

Date Printed: 8/19/2014 10:35:21 AM



This map or report is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. Users of this map or report are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.

Existing MW to sample

.

Soil boring only

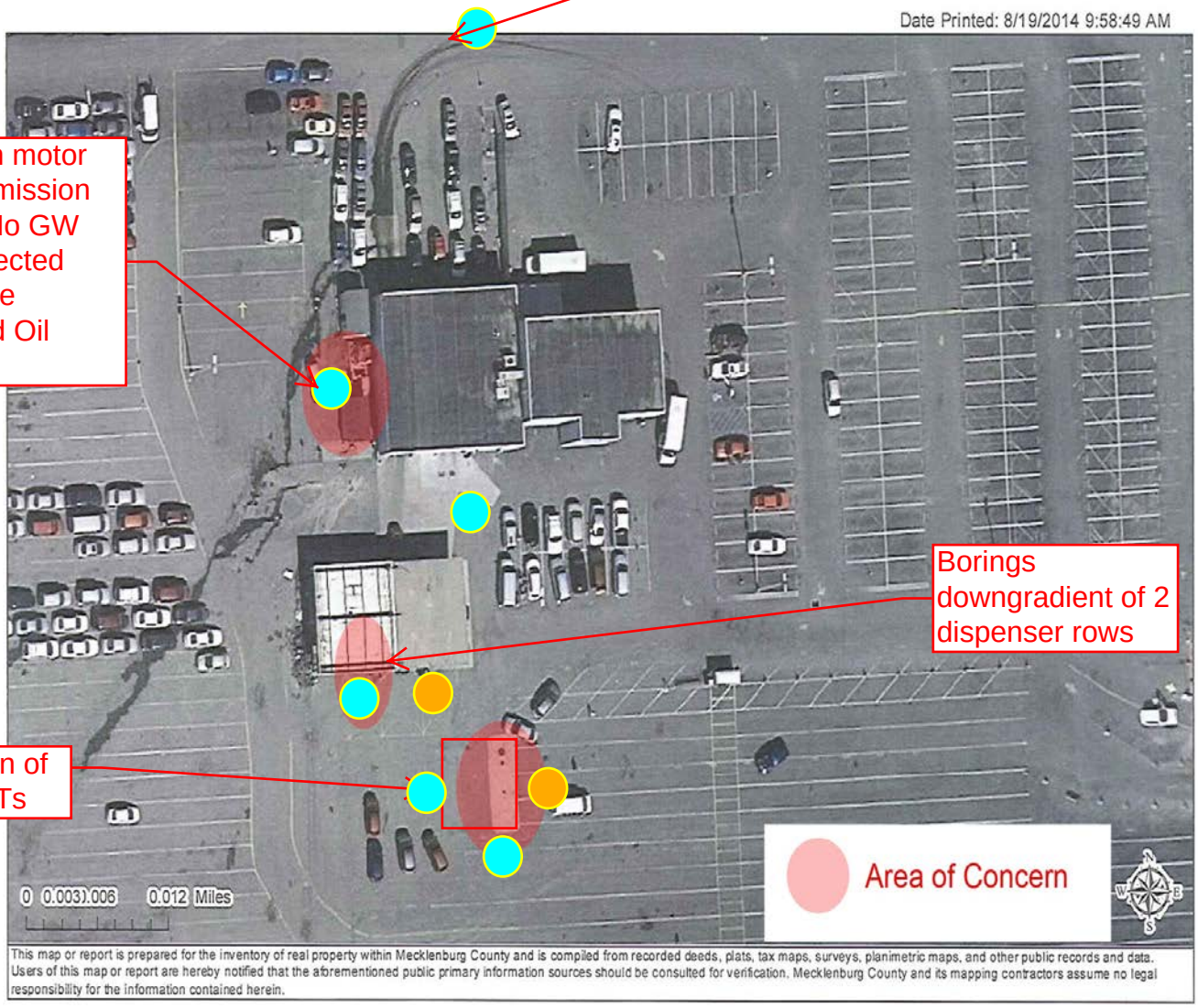
.

Soil boring + temporary monitoring well

Exhibit B

Polaris 3G Map – Mecklenburg County, North Car

Avis



File review

-3/22/1993: letter with historical documents. Waste oil UST was located N of building, , virgin motor oil and ATF UST located on west side of building, and gas USTs located SE of dispensers. Soil and GW impacts near gas tanks

-5/3/94: CSA

9/94: UST closure report. New UST in old UST field. Bedrock encountered while trying to install new UST due south of dispensers. 4 compliance MWs installed

11/21/94: CAP

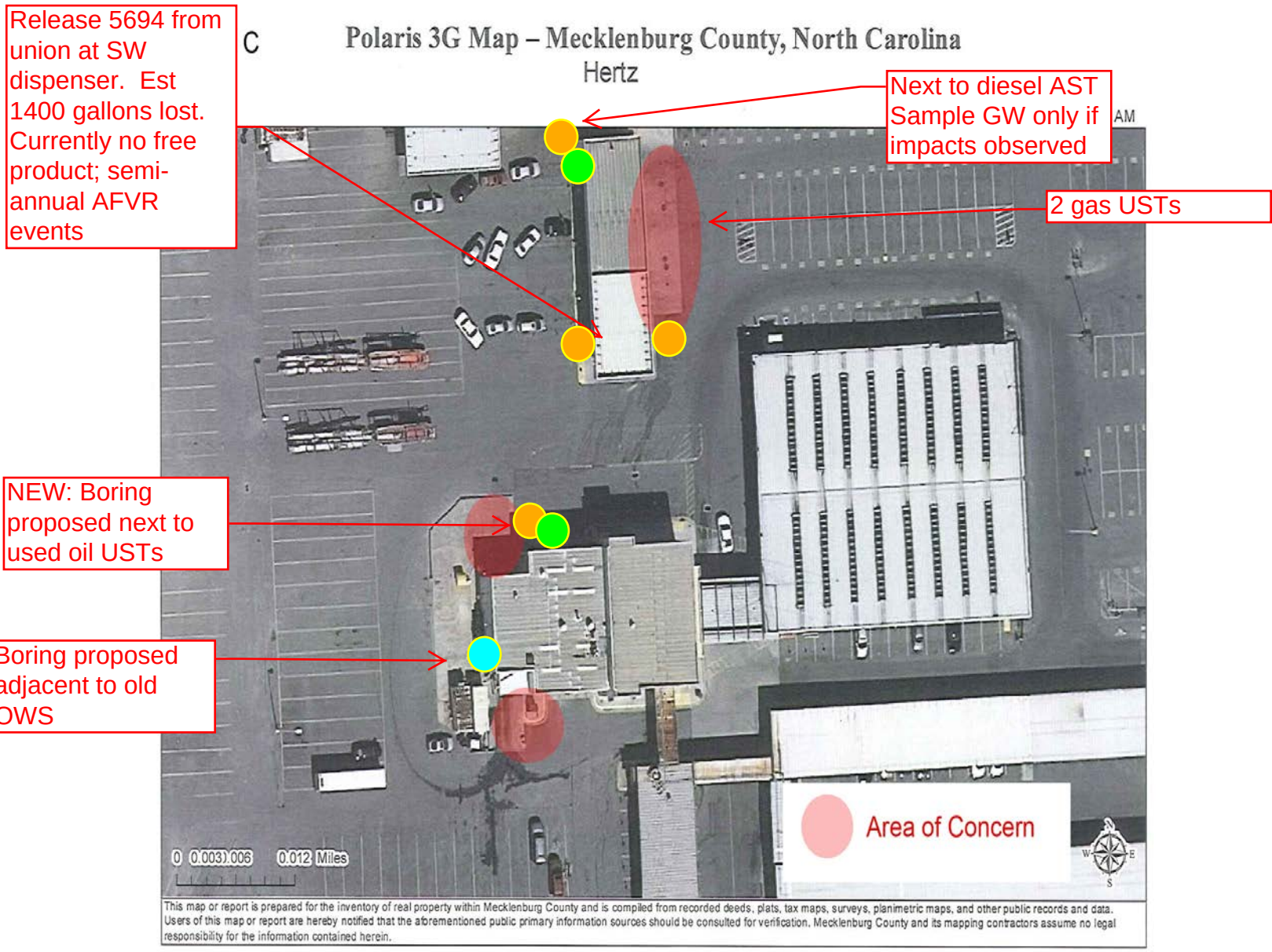
8/8/96 CAP summarizes previous investigations, plume toward SW, recommends MNA

9/15/98: NFA

UST Database: 8/30/94: 2x12K-gas, 1x550 trans fluid, 1x550 motor oil, and 1x550 oil removed. 1x12K gas installed 8/24/94

Proposed Scope of work:

- Advance 3 soil borings /2 temporary MWs around current UST field (low BP fuel)
- Advance 2 soil boring / 1 temporary MW downgradient of dispensers (low BP fuel)
- Advance 1 soil boring / 1 temporary MW near OWS (used oil compounds)
- Advance 1 soil boring/ 1 temporary MW at location of former oil/ATF USTs and current used oil AST (heavy oil compounds)
- Advance 1 soil boring/temp MW near former used oil UST (LOCATION ESTIMATED) (used oil compounds)



Recent GW samping indicates
- DTW ~10 ft bgs
- GW flow generally toward S or SE, may also have westward component - BTEX highest near dispesners, above standard NE of UST field. DENR correspondence wants soil sampling during UST removal.
UST Database. 4 tanks installed in 1981: 1 x 10K-gas, 1x20K-gas, 1x550-used oil, 1x2,000-motor oil

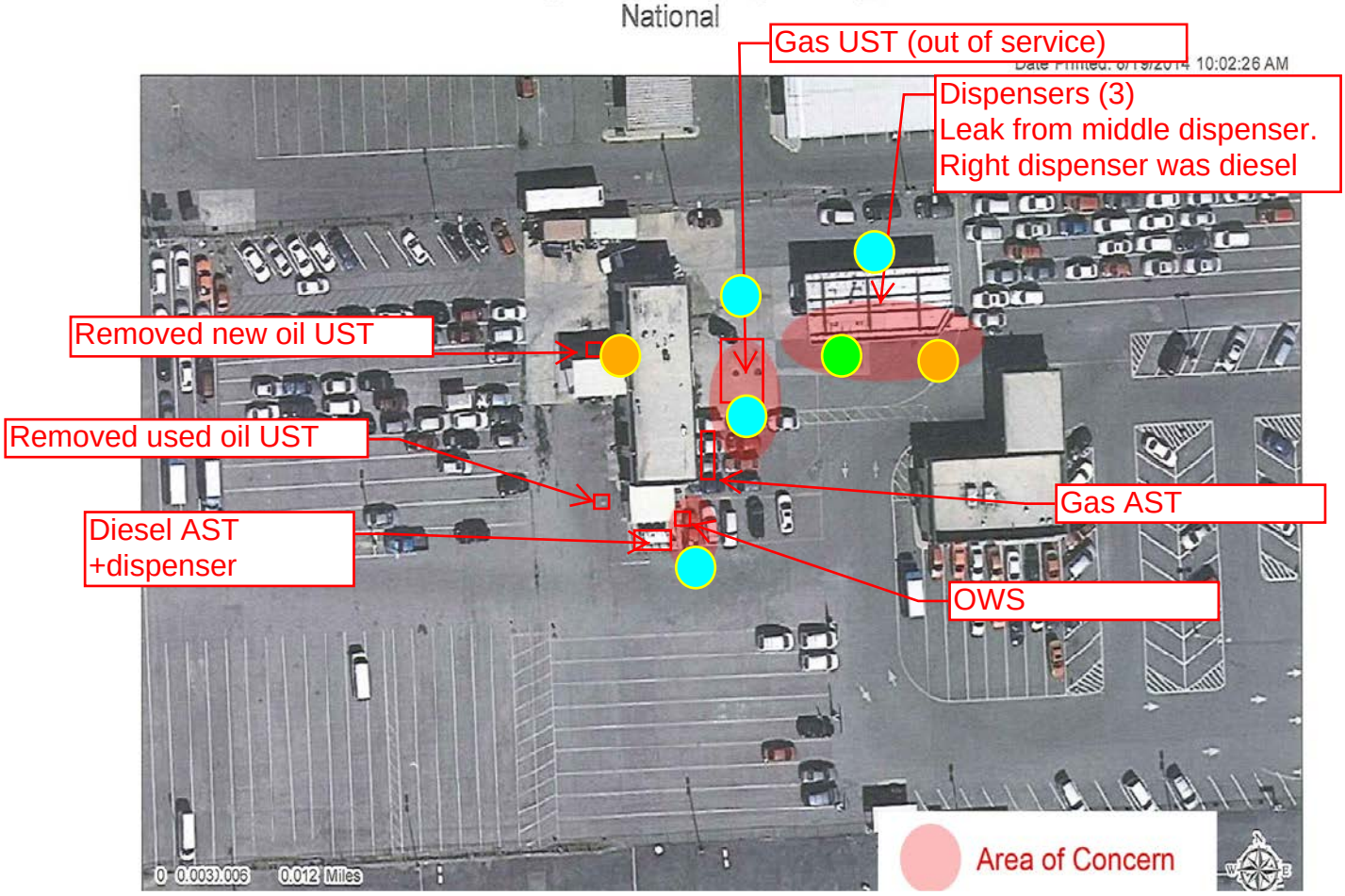
Proposed work:
- 1 Boring downgradient of UST field (low BP fuels)
- 1 boring to see soil impacts near dispensers (known release) (low BP fuels)
- 1 boring near diesel AST (med BP fuels).
- 1 boring near used oil/motor oil USTs (used oil compounds)
- 1 boring + GWS near former OWS (used oil compounds)
- Gauge existing wells, survey temp well

Sample MW-11 (near diesel AST) for med BP fuel list and MW-5 (located near used oil/motor oil USTs) for used oil fuel compounds
No sampling of other existing GW wells due to recent data.

Exhibit D

Polaris 3G Map – Mecklenburg County, North Carolina

National



File Review

Incident 36083

-5/19/06: Piping closure report. Due to testing failure of piping associated with UST #1, piping closed. Closure samplings had TPH >> 10 mg/kg. Diesel AST connects to easternmost dispenser.

-11/27/06: LSA. soil sampling + MW-1 installed. Concentrations > 2L but less than GCL.

-10/5/07: NFA received.

Incident 36321

-7/27/07: Used oil and new oil USTs removed 5/30 and 6/2; DTW ~9 ft bgs. Bottom soil samples not collected because of water in tank field, sidewalls > 10 mg/kg. Wells installed inside former tank pits.

-10/11/07: IAAR (summary of site activities). BR not encountered. Wells sampled for VOCs (6210), 625, EPH, VPH, Cr and Pb (same as current requirements). Closure soil sampling of used oil UST does not meet current closure sampling.

-2/13/2008: LSA. Used oil soil sampling (DPT) for remaining required parameters

-2/18/08. NFA issued.

UST Database. 2x550 USTs (new oil and used oil) removed 5/30/07 and 6/1/07. currently 2 x 10,000-gal gas USTs.

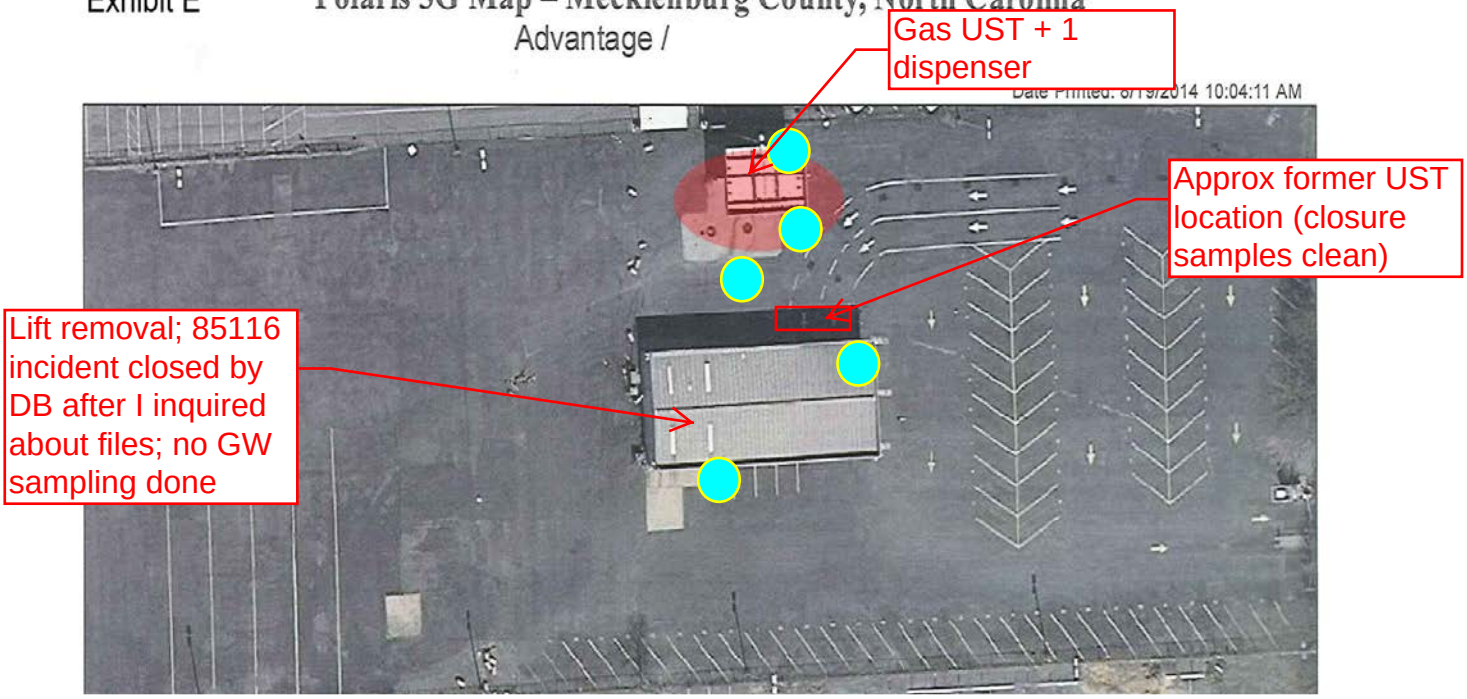
Proposed Scope of work:

- Eliminate borings near used oil and new oil USTs due to historical sampling and closure report
- Install 2 soil borings/temp MWs on either end of USTs.(light BP fuel)
- Install 1 soil boring / temp MW near diesel AST/OWS (med BP fuel + used/waste oil)
- Install 1 soil boring / temp MW north of dispensers (light BP and med BP fuel)
- Install 1 soil boring south of dispensers (light and med BP fuel)
- Install 1 soil boring near the storage location for used oil buckets, hydraulic lift, air compressor. Sample GW only if impacts observed. (used/waste oil)
- Sample existing MW-1 (light and med BP fuels)

Exhibit E

Polaris 3G Map – Mecklenburg County, North Carolina

Advantage /



Proposed Scope of work:

- Advance 4 soil borings /temporary MWs around current dispenser/UST field
- Advance 1 soil boring / temporary MW as close as possible to the former dispenser location to confirm excavation complete
- Advance 1 soil boring / temporary MW downgradient of former lift to confirm no GW impacts (heavy fuels)

File Review:

AST incident 85116 due to removal of hydraulic lifts. DB indicated it is to be closed

UST incident 20521 due to removal of UST and dispenser. Closed

9/2/99: UST closure report 8000 gal UST and dispenser removed. No odor or staining observed in UST field (TPH < 10 mg/kg), reused excavated soils for backfill and brought in clean fill. Impacts associated with dispenser

6/26/2000: LSA. Excavated ~10x7 ft, to 7 ft bgs; bottom sample TPH 540 ppm. Backfilled with stone. Well installed to 28 ft bgs, DTW = 11.5 ft bgs.

Soil: benzene > soil-to-GW mscc. GW: benzene, MTBE, lead> 2L slightly

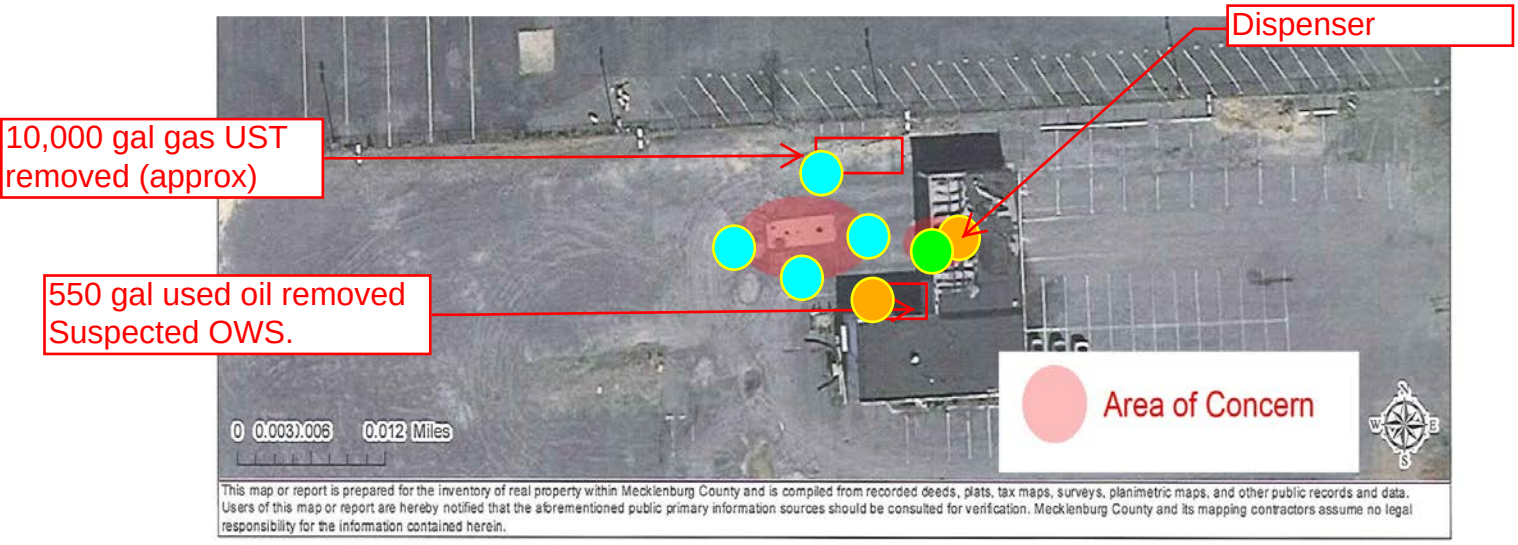
UST incident 22236. Per DB, suspects incident wrongly assigned a UST # and AST # (should only be UST #). He will close.

UST Database: 4200 Car Rental Road. Dollar. 1x10,000-gal gas UST installed 1/1/81 and removed 12/9/98. 1 x 10,000-gal gas UST installed 12/16/98, reportedly out of service. 1x500 gal UST, non-petroleum and non regulated installed 1/1/64. ???

Exhibit E

Polaris 3G Map – Mecklenburg County, North Carolina / Payless

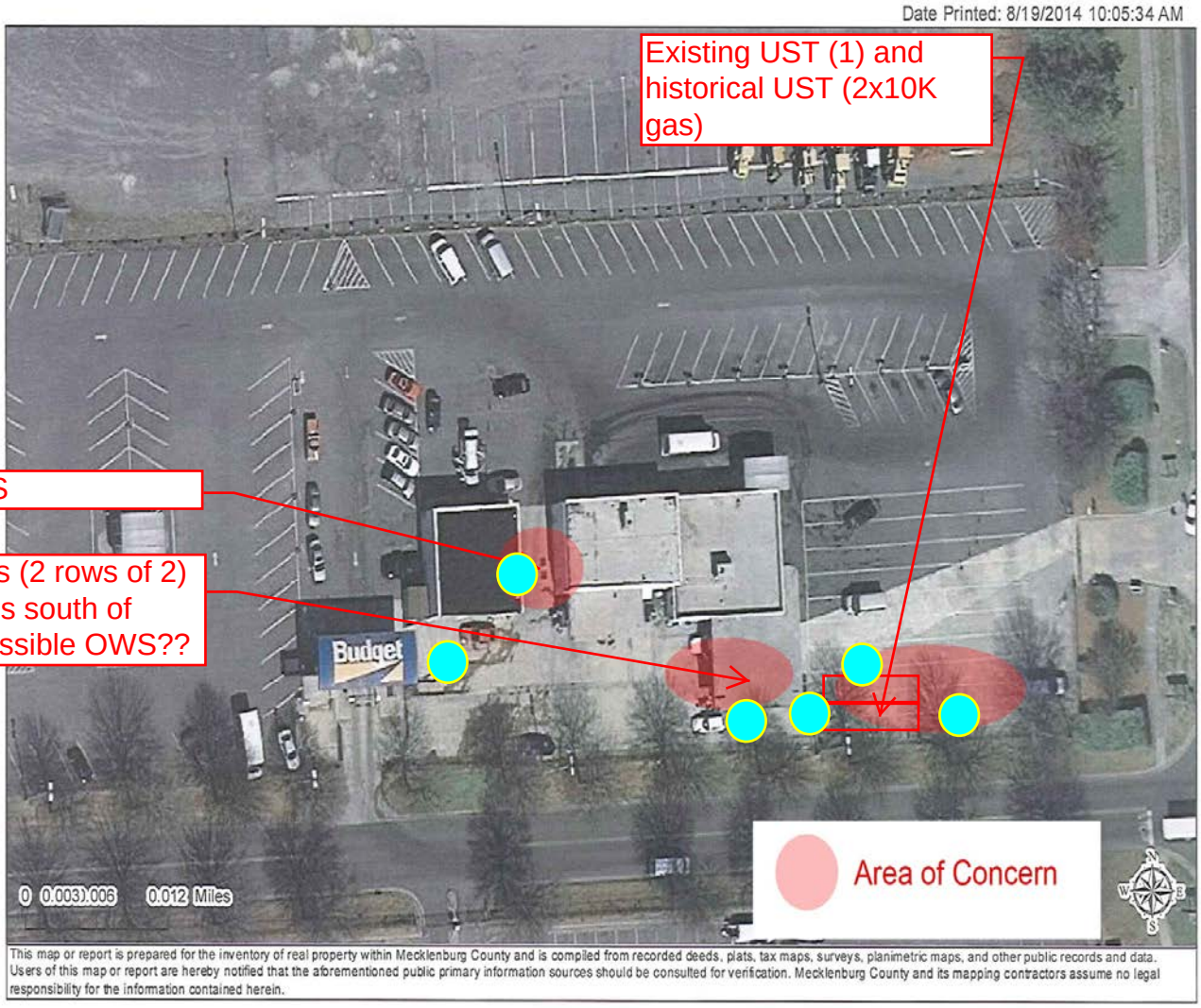
File Review
Incident 12360
3/31/94 Limited soil assessment. TPH > 10 (max of 7900 ppm GRO and 270 ppm grease)
5/23/94: Impacts near dispenser too (TPH 5300 ppm)
5/10/94: UST closure report10,000-gal gas and 550-gal used oil USTs removed.
6/14/07: LSA. DTW 12.5 ft bgs. MW-1 (near dispenser) and MW-2 (near waste oil) ; soil and GW samples collected. several compounds > MSCC, benzene > 2L
8/17/07: NFA issued
UST Database 4204 Rental Car Road. 1x8,000-gal gas UST, out of service, installed 11/30/94. The gas tank has also contained diesel.



Scope of Work Proposed
- Advance 4 soil borings / temp MWs around UST field (light BP compounds). The northern boring will be biased north to assess remaining impacts associated with former UST and be analyzed for gasoline-related compounds only. The remaining 3 borings around the UST will be analyzed for light BP and med/high BP compounds.
- Hand auger soil boring near suspected OWS (accessibility with DPT machine unlikely) (used oil compounds)
-Advance 1 soil boring adjacent to dispenser (light BP compounds) and sample existing MW (if not abandoned).

Exhibit F

Polaris 3G Map – Mecklenburg County, North Carolina
Budget

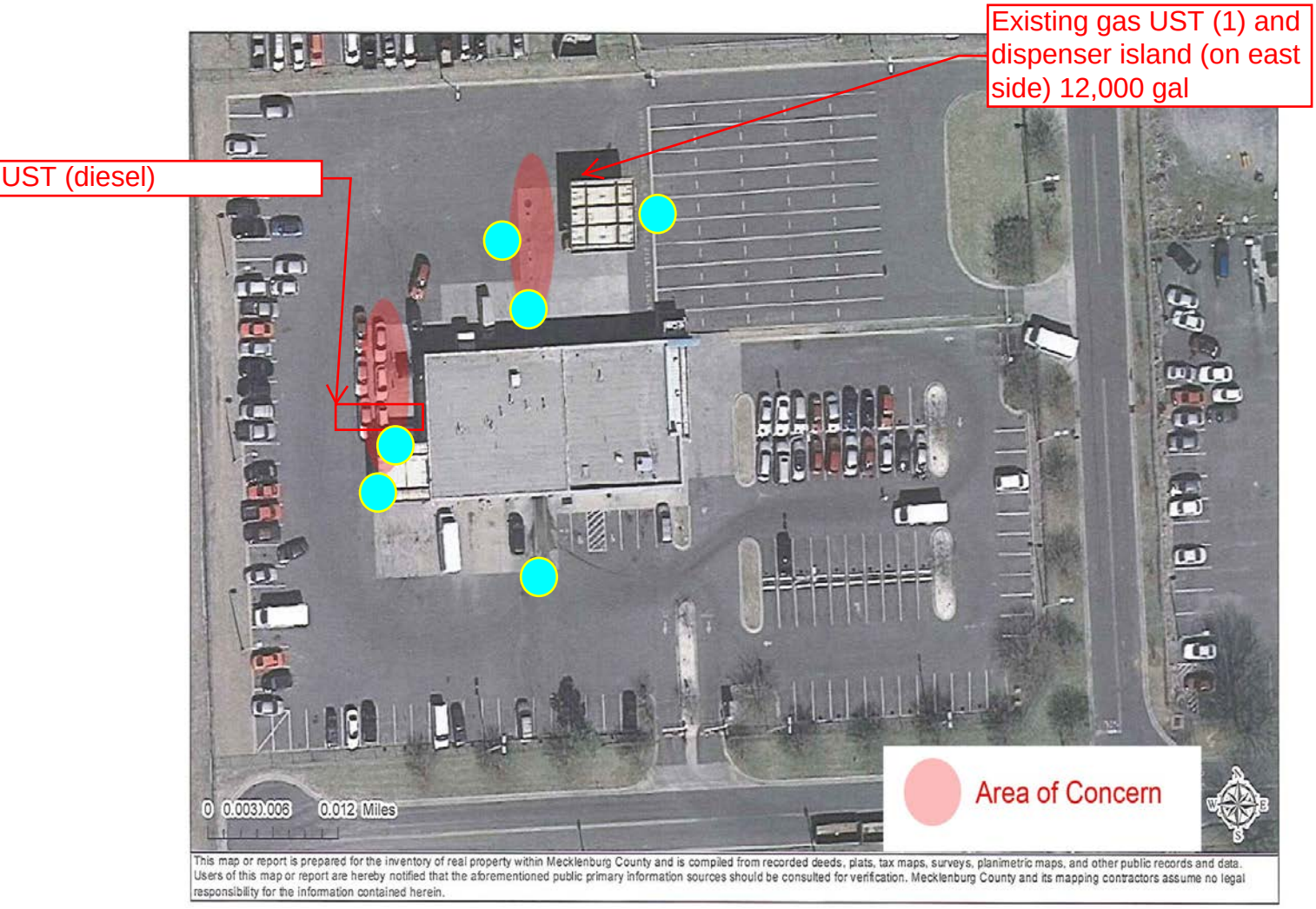


File Review
Incident 16204
2/8/96: UST closure and LSA. Historical surface spill (1992) from around dispensers; some cleanup but limited by foundation. No impacts observed during UST removal (TPH <10 mg/kg). Odors observed during line and dispenser replacement;over excavation between 6 to 11 ft in this area (471.67 tons soil) and closure samples reportedly clean. No GW samples collected.
8/20/96. NFA
UST Database review. 4210 Rental Car Road. 2 x 10K-gas USTs installed 4/15/82 and removed 1/8/96. 1x12,000-gas UST installed 1/8/96.
Scope of Work
- 3 soil borings / temp MWs around USTs (light BP fuels)
- 1 soil boring / temp MW on S side of dispenser (light BP fuels)
- 1 soil boring / temp MW adjacent to OWS (used oil compounds)
- 1 soil boring downgradient of car wash. Install temp MW if impacts detected. (used oil compounds)

Exhibit G

Polaris 3G Map – Mecklenburg County, North Carolina

Dollar



File Review

UST Database

4216 Air Ramp Road.

10,000 gal gasoline UST removed 12/31/94. No incident assigned. No closure report reviewed.

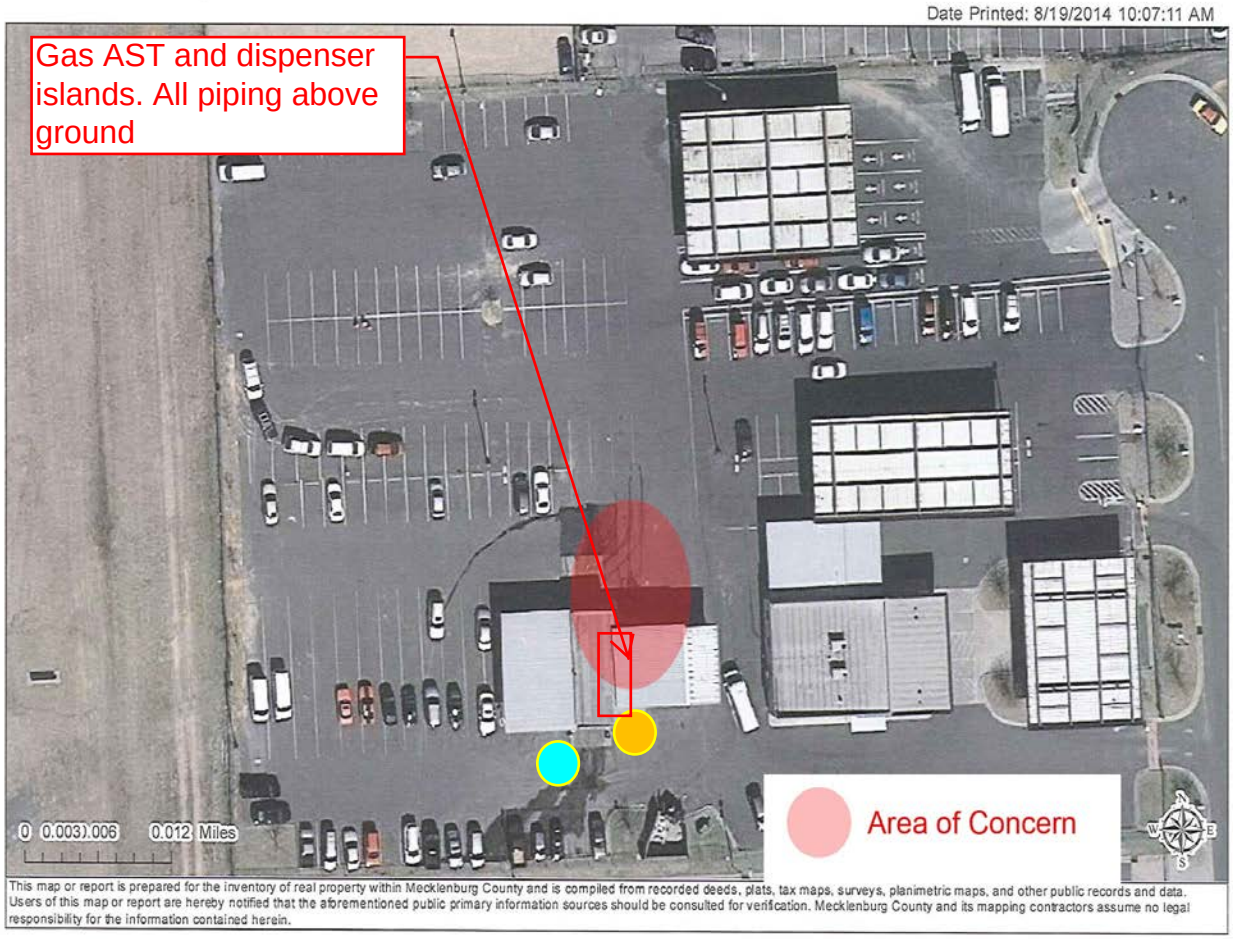
Existing gasoline (12,000-gal) and diesel (4,000-gal) installed 2/28/94.

Scope of Work

- install 4 soil boring / temporary monitoring wells near existing gasoline UST and dispenser
- install 2 soil borings / temporary monitoring well near diesel UST
- install 1 soil boring / temporary monitoring well downgradient from car wash / OWS.

Exhibit H

Polaris 3G Map – Mecklenburg County, North Carolina
Enterprise



File Review
UST Database
4202 Air Ramp Road. No entries
AST Database. No entries
Scope of Work
- install 2 soil boring / temporary monitoring wells near existing gasoline AST and dispenser
- install 1 soil borings / temporary monitoring well downgradient of car wash. No OWS observed, assumed to be internal or non existant.

Appendix D.
Mecklenburg County Site Investigation Permit

Mecklenburg County Health Department
Groundwater & Wastewater Services
700 N. Tryon St., Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894
http://groundwater.charmeck.org

Bill To: **Owner**

Permit Issuance Date: 2/24/2015

Permit Number: 70002227

SUBSURFACE INVESTIGATION PERMIT

I. Well Owner Information

Name: City of Charlottte Aviation Dept
Attn: Jimmy Jordan
Phone #: 704-359-4916
Address 1: 5601 Wilkinson Bv
Address 2: _____
City: Charlotte State: NC Zip: 28208

II. Agent Information *(if applicable)*

Name: AECOM Technical Services of NC, Inc
Attn: James McDorman
Phone #: 704-716-0734
Address 1: 6000 Fairview Rd Suite 200
Address 2: _____
City: Charlotte State: NC Zip: 28210

III. Site Information

Site Name; Rental Car Facilities
Parcel ID Number: 11522102
Address: _____
City: _____ State: NC Zip: _____

General Conditions of This Permit:

- This permit shall be VALID for a period not to exceed twelve (12) months from the date of issuance.
- This permit is VALID for the site specified above and must be on-site during the course of the investigation and made available to a Department representative upon request.
- A North Carolina Certified Well Contrator must perform any well contractor activities associated with this permit.
- All wells shall be constructed and abandoned to the standards of Chapter VI, Section V and Section VI of the Mecklenburg County Groundwater Well Regulations.
- All temporary wells, including those installed using Direct Push Technology, must be abandoned to the standards of Chapter VI, Section VI of the Mecklenburg County Groundwater Well Regulations.
- Registration information for all wells must be submitted to the Department within thirty (30) days of well completion. If water samples are collected, it is recommended that the well NOT be registered until the analytical results are received.

Appendix E.
Boring Logs

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Advantage
Charlotte, North Carolina

Boring Log

Boring Number	Advantage TMW-1
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	20 feet
Water Level:	11.70 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConahey
Date Started: 2/23/2015
Date Finished: 2/23/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 7.0 ft: light brown SILT (ML), loose, moist
2							
3						8.8	
4		NA					
5	0 - 10 feet: Riser					44.6	
6							
7			ADV TMW-2 (6-8)			89.6	
8		7 - 8 feet: Bentonite					7.0 - 8.0 ft: grey SAND (SP), fine to coarse grained, moist, poorly graded
							8.0 - 8.5 ft: light brown clayey SILT (ML), dry
9						7.9	8.5 - 12 ft: grey SAND (SP), fine to coarse grained, moist, poorly graded
10							
11							wet
12							12 - 14 ft: light brown SAND (SP) medium grained, wet
13							
14		8 - 20 feet: Sand					14 - 20 ft: grey to tan clayey SAND (SM), wet
15	10 - 20 feet: 0.010-Slot Screen						
16							
17							
18							
19							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Advantage
Charlotte, North Carolina

Boring Log

Boring Number	Advantage TMW-2
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	20 feet
Water Level:	11.75 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConahey
Date Started: 2/23/2015
Date Finished: 2/23/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 3.0 ft: light brown SILT (ML), loose, dry
2							
3						0.0	
4		NA					3.0 - 7.0 ft: reddish brown SILT (ML), loose, dry
5	0 - 10 feet: Riser					70.6	
6							
7			ADV TMW-1 (6-8)			551.7	
8		7 - 8 feet: Bentonite					7.0 - 8.5 ft: grey silty SAND (SM), fine grained, moist
9						0.0	8.5 - 11 ft: light brown SILT (ML)
10							
11							11 - 11.5 ft: light brown SAND (SP) medium grained, wet
12							
13							
14		8 - 20 feet: Sand					14 - 20 ft: grey to tan clayey SAND (SM), wet
15	10 - 20 feet: 0.010-Slot Screen						
16							
17							
18							
19							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Advantage
Charlotte, North Carolina

Boring Log

Boring Number	Advantage TMW-3
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	20 feet
Water Level:	17.56 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConahey
Date Started: 2/23/2015
Date Finished: 2/23/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 2.5 ft: light brown clayey SILT (ML), stiff, dry
2							
3						51.7	2.5 - 4.0 ft: light brown SILT (ML), loose, dry
4		NA					
5	0 - 10 feet: Riser		ADV TMW-3 (4-6)			2,115	4.0 - 6.5 ft: grey clayey SILT (ML), loose, dry
6							
7						336.2	6.5 - 9.5 ft: light brown CLAY (CL), stiff, moist
8		7 - 8 feet: Bentonite					
9			ADV TMW-3 (8-10) / Dup-1			423.9	
10							9.5 - 13 ft: light brown silty SAND (SM), moist
11							
12							wet
13							13 - 18 ft: light brown clayey SILT (ML), wet
14		8 - 20 feet: Sand					
15	10 - 20 feet: 0.010-Slot Screen						
16							
17							
18							18 - 20 ft: grey CLAY (CL), very stiff, wet
19							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Advantage
Charlotte, North Carolina

Boring Log

Boring Number	Advantage TMW-4
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	20 feet
Water Level:	18.34 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConahey
Date Started: 2/23/2015
Date Finished: 2/23/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1	0 - 10 feet: Riser	NA	ADV TMW-4 (0-2)	Y		125.7	0.5 - 3.0 ft: grey CLAY (CL), stiff, moist, odor
2							
3						55.0	3.0 - 9.5 ft: light brown SILT (ML), moist
4							
5						0.0	
6							
7						11.7	
8		7 - 8 feet: Bentonite					
9		8 - 20 feet: Sand	ADV TMW-4 (8-10)			62.7	
10							9.5 - 11 ft: light brown clayey SILT (ML), stiff, moist
11							11 - 13.5 ft: light brown clayey SILT (ML), moist, some sand
12							
13							
14							13.5 - 17.5 ft: reddish brown clayey SILT (ML), wet
15	10 - 20 feet: 0.010-Slot Screen						
16							
17							
18							17.5 - 20 ft: tan SAND (SM), dense, fine grained, wet, some silt
19							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Advantage
Charlotte, North Carolina

Boring Log

Boring Number	Advantage TMW-5
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	22 feet
Water Level:	13.55 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConahey
Date Started: 2/23/2015
Date Finished: 2/23/2015

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
						Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.5 - 2.5 ft: reddish brown CLAY (CL), loose, moist
2					0.0	
3					0.0	2.5 - 4.0 ft: light brown clayey SILT (ML), moist, some organics
4						
5	NA		Y		160.7	4.0 -5.0 ft: grey clayey SAND (SC), wet, odor
6	0 - 12 feet: Riser					5.0 - 11 ft: light brown clayey SILT (ML), dry, some organics
7					1,193	
8						
9					1,613	
10	9 - 10 feet: Bentonite					
11		ADV TMW-5 (10-12)			3,047	11 - 20 ft: reddish brown CLAY (CL), stiff, moist
12						
13						wet
14						
15						
16	10 - 22 feet: Sand					
17	12 - 22 feet: 0.010-Slot Screen					
18						
19						
20						20 - 22 ft: grey clayey SAND (SC), fine grained, wet
21						

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Budget
Charlotte, North Carolina

Boring Log

Boring Number Budget TMW-1
Sheet 1 of 2
Equipment: Geoprobe 7720DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 25 feet
Water Level: 13.45 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: J. Allen
Date Started: 2/19/2015
Date Finished: 2/19/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Concrete
1						0.0	0.5 - 5.0 ft: light brown CLAY (CL), stiff, dry
2							
3						0.0	
4							
5						12.1	some ssnd
6		NA					5.0 - 19 ft: reddish brown CLAY (CL), stiff, dry
7	0 - 15 feet: Riser					9.4	
8							
9						0.0	
10							
11						25.2	
12		12 - 13 feet: Bentonite	BUD TMW-1 (12-14)			160.4	
13		13 - 25 feet: Sand					
14							
15							
16							
17	15 - 25 feet: 0.010-Slot Screen						
18							
19							19 - 23.5 ft: grey clayey SAND (SC), wet, green discoloration

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Budget
Charlotte, North Carolina

Boring Log

Boring Number	Budget TMW-1
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	20 feet
Water Level:	11.75 feet below top of casing

Project Manager:	Eric Sanderson	*Logged By:* B. Morrow	*Date Started:* 2/19/2015		
Drilling Company	Terrasonic	*Driller:* J. Allen	*Date Finished:* 2/19/2015		

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
21	15 - 25 feet: 0.010-Slot Screen	13 - 25 feet: Sand					19 - 23.5 ft: grey clayey SAND (SC), wet, green discoloration
22							
23							
24							23.5 - 25 ft: tan to grey SILT (ML), wet, interlayered

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Budget
Charlotte, North Carolina

Boring Log

Boring Number	Budget TMW-6
Sheet	1 of 1
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	23 feet
Water Level:	19.05 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: J. Allen
Date Started: 2/19/2015
Date Finished: 2/19/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs)
							0 - 0.5 ft: Concrete
1						0.0	0.5 - 3.0 ft: light brown CLAY (CL), loose, dry
2							
3						0.0	
4							3.0 - 14.5 ft: reddish brown CLAY (CL), loose, dry
5		NA				0.0	
6							(60% recovery from 5 - 10 ft)
	0 - 13 feet: Riser						stiff
7						0.0	
8							
							soft
9						0.0	
10							
		10 - 11 feet: Bentonite					
11							
12			BUD TMW-6 (11-13)			142.0	
13							
14			BUD TMW-6 (13-15)			223.7	
15							14.5 - 15 ft: dark brown SAND (SP), fine grained, wet
							15 - 20 ft: reddish brown CLAY (CL), soft, wet (60% recovery from 15 - 20 ft)
16							
17		11 - 23 feet: Sand					
18	13 - 23 feet: 0.010-Slot Screen						
19							
20							
							20 - 23 ft: grey clayey SILT (ML), wet, some sand
21							
22							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Budget
Charlotte, North Carolina

Boring Log

Boring Number	Budget TMW-5
Sheet	1 of 1
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	23 feet
Water Level:	18.55 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: J. Allen
Date Started: 2/19/2015
Date Finished: 2/19/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs)
							0 - 0.5 ft: Concrete
1						0.0	0.5 - 4.0 ft: reddish brown silty CLAY (CL), loose, dry
2							
3						0.0	
4							
5		NA				12.9	4.0 - 8.0 ft: grey CLAY (CL), soft, dry
6							
7	0 - 13 feet: Riser					NR	
8							
9						0.0	8.0 - 17 ft: reddish brown silty CLAY (CL), loose, dry
10							
11		10 - 11 feet: Bentonite					(80% recovery from 10 to 15 ft)
12						13.4	
13			BUD TMW-5 (12-15)				
14						202.7	
15							(60% recovery from 15 to 20 ft)
16							
17		11 - 23 feet: Sand					17 - 21 ft: reddish brown silty CLAY (CL), loose, wet, some sandy clay
18	13 - 23 feet: 0.010-Slot Screen						
19							
20							
21							21 - 23 ft: grey clayey SILT (ML), wet, some sand and organics
22							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Budget
Charlotte, North Carolina

Boring Log

Boring Number Budget TMW-4
Sheet 1 of 1
Equipment: Geoprobe 7720DT (DPT)
Sampling Method: 5 foot macrocore

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/19/2015
Depth of Boring: 22 feet

Drilling Company Terrasonic
Driller: J. Allen
Date Finished: 2/19/2015
Water Level: 18.43 feet below top of casing

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs)
							0 - 0.5 ft: Concrete
1						0.0	0.5 - 19.5 ft: reddish brown clayey SILT (ML), loose, dry
2							
3						0.0	
4							
5		NA				0.0	
6	0 - 12 feet: Riser						
7						0.0	
8							
9						0.0	
10		9 - 10 feet: Bentonite					
11						0.0	
12							
13							
14			BUD TMW-4 (13-15)			0.0	
15							
16		10 - 22 feet: Sand					
17	12 - 22 feet: 0.010-Slot Screen						wet
18							
19							
20							19.5 - 22 ft: grey clayey SAND (SC), fine grained, wet
21							
							Refusal at 22 ft bgs

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Budget
Charlotte, North Carolina

Boring Log

Boring Number Budget TMW-3
Sheet 1 of 1
Equipment: Geoprobe 7720DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 20 feet
Water Level: 16.26 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: J. Allen
Date Started: 2/19/2015
Date Finished: 2/19/2015

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
						Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Concrete
1					0.0	0.5 - 6.5 ft: light brown clayey SILT (ML), soft, dry
2						
3					0.0	
4	NA					
5	0 - 10 feet: Riser				0.0	(60% recovery from 5.0 - 10 ft)
6						
7					NR	6.5 - 18.5 ft: reddish brown clayey SILT (ML), stiff, dry
8	7 - 8 feet: Bentonite					
9					0.0	
10						
11					NR	(80% recovery from 10 to 15 ft)
12						moist
13		BUD TMW-3 (12-14)			0.0	
14	8 - 20 feet: Sand					wet
15	10 - 20 feet: 0.010-Slot Screen					
16						
17						saprolite
18						
19						18.5 - 20 ft: grey clayey SAND (SP), wet

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Budget
Charlotte, North Carolina

Boring Log

Boring Number	Budget TMW-2
Sheet	1 of 1
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	20 feet
Water Level:	13.17 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: J. Allen
Date Started: 2/19/2015
Date Finished: 2/19/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Concrete
1						249.2	0.5 - 2.5 ft: light brown silty CLAY (CL), loose, dry, some sand
2							
3						304.1	2.5 - 7.0 ft: reddish brown CLAY (CL), stiff, moist
4		NA					
5	0 - 10 feet: Riser					410.4	dry
6							
7			BUD TMW-2 (6-8)			2,529	
8		7 - 8 feet: Bentonite					noticeable discoloration from 7.0 to 8.0 feet 2 inch layer of sand at 7.5 feet bgs
9						561.0	
10							
11			BUD TMW-2 (10-12)			3,196	
12							
13							
14		8 - 20 feet: Sand					
15	10 - 20 feet: 0.010-Slot Screen						
16							
17							
18							
19							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Avis
Charlotte, North Carolina

Boring Log

Boring Number	Avis TMW-1
Sheet	1 of 2
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	24 feet
Water Level:	14.01 feet below top of casing

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/24/2015
Drilling Company Terrasonic
Driller: M. McConahey
Date Finished: 2/24/2015

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
0						Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1					0.0	0.5 - 1.5 ft: reddish brown CLAY (CL), stiff, moist
2						1.5 - 24 ft: light brown silty SAND (SM), dry, poorly sorted, saprolite
3					0.0	
4						
5					0.0	
6	NA					
7	0 - 14 feet: Riser				0.0	
8						
9					0.0	
10						
11		Avis TMW-1 (10-12)			0.0	
12	11 - 12 feet: Bentonite					
13					0.0	
14						
15	12 - 24 feet: Sand					
16						
17	14 - 24 feet: 0.010-Slot Screen					
18						

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Avis
Charlotte, North Carolina

Boring Log

Boring Number	Avis TMW-1
Sheet	2 of 2
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	24 feet
Water Level:	~14.01 feet below top of casing

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/24/2015
Drilling Company Fishburne Drilling
Driller: M. McConahey
Date Finished: 2/24/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
20	14 - 24 feet: 0.010 Slot Screen	12 - 24 feet: Sand					1.5 - 24 ft: light brown silty SAND (SM), dry, poorly graded, saprolite
21							
22							
23							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Avis
Charlotte, North Carolina

Boring Log

Boring Number	Avis TMW-2
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	10.5 feet
Water Level:	NA

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/25/2015
Drilling Company Terrasonic
Driller: M. McConahey
Date Finished: 2/25/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 2.0 ft: dark grey silty SAND (SP), dry, some gravel
2							
3						103.7	2.0 - 6.5 ft: reddish brown clayey SILT (ML), loose, dry
4							
5	NA	NA	Avis TMW-2 (4-6)			127	
6							
7						0.0	6.5 - 10.5 ft: light brown SILT (ML), loose, dry, saprolite
8							
9						0.0	
10							Refusal at 10.5 ft bgs

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Avis
Charlotte, North Carolina

Boring Log

Boring Number	Avis TMW-3
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	Hand Auger
Depth of Boring:	5.0 feet
Water Level:	NA

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/25/2015
Drilling Company Terrasonic
Driller: M. McConahey
Date Finished: 2/25/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1	NA	NA				0.0	0.5 - 5.0 ft: reddish brown clayey SILT (ML), loose, dry
2							
3						0.0	
4							some sand
			Avis TMW-3 (4-5)			161.1	Refusal at 5.0 ft bgs

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Avis
Charlotte, North Carolina

Boring Log

Boring Number Avis TMW-4
Sheet 1 of 1
Equipment: Geoprobe 6620DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 14 feet
Water Level: NA

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/25/2015
Drilling Company Terrasonic
Driller: M. McConahey
Date Finished: 2/25/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 14 ft: reddish brown clayey SILT (ML), dry, loose
2				Y			Odor
3		NA				795.2	
4	0 - 9 feet: Riser						
5						591.6	
6							
		6 - 7 feet: Bentonite	Avis TMW-4 (6-8)				
7						10,658	
8							
9						6,644	
10		7 - 14 feet: Sand					
11	9 - 14 feet: 0.010-Slot Screen		Avis TMW-4 (10-12)			10,658	
12							
13							
							Refusal at 14 ft bgs

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Avis
Charlotte, North Carolina

Boring Log

Boring Number Avis TMW-5
Sheet 1 of 1
Equipment: Geoprobe 6620DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 15.5 feet
Water Level: NA

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/24/2015
Drilling Company Terrasonic
Driller: M. McConahey
Date Finished: 2/24/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 2.0 ft: reddish brown SAND (SP), loose, fine grained, dry
2							
3						0.0	2.0 -15.5 ft: tan to white SAND (SP), fine grained, dry
4		NA					
5	0 - 10.5 feet: Riser					0.0	
6							
7						0.0	
8		7.5 - 8.5 feet: Bentonite					
9						0.0	
10							
11			Avis TMW-5 (10-12)			0.0	
12		8.5- 15.5 feet: Sand					
13	10.5 - 15.5 feet: 0.010-Slot Screen						
14							
15							Refusal at 15.5 ft bgs

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Avis
Charlotte, North Carolina

Boring Log

Boring Number	Avis TMW-6
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	21 feet
Water Level:	12.21 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConahey
Date Started: 2/24/2015
Date Finished: 2/24/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1							0.5 - 4.0 ft: reddish brown CLAY (CL), stiff, moist
2						0.0	
3							
4		NA				0.0	
5						0.0	4.0 - 5.0 ft: reddish brown clayey SILT (ML), loose, moist
6	0 - 11 feet: Riser						5.0 - 21 ft: light brown clayey SILT (ML), loose
7						0.0	
8							
9		8 - 9 feet: Bentonite	AvisTMW-6 (8-10)			0.0	
10							
11							wet
12							
13							
14							
15		9 - 21 feet: Sand					
16	11 - 21 feet: 0.010-Slot Screen						
17							some sand (17 - 21)
18							
19							
20							
							Refusal at 21 ft bgs

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Avis
Charlotte, North Carolina

Boring Log

Boring Number	Avis B1
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	Hand Auger
Depth of Boring:	6.0 feet
Water Level:	NA

Project Manager:	Eric Sanderson	*Logged By:* B. Morrow	*Date Started:* 2/25/2015	
Drilling Company	Terrasonic	*Driller:* M. McConahey	*Date Finished:* 2/25/2015	

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						269	0.5 - 6 ft: brown clayey SILT (ML), dry
2							
3	NA	NA	Avis B1 (2-4)			3,664	
4							
5						948	
6							Refusal at 6.0 ft bgs

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Avis
Charlotte, North Carolina

Boring Log

Boring Number	Avis B2
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	12 feet
Water Level:	NA

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/24/2015
Drilling Company Terrasonic
Driller: M. McConahey
Date Finished: 2/24/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 7.0 ft: reddish brown clayey SILT (ML), loose, moist
2							
3						0.0	
4							
5						0.0	
6	NA	NA					
7						0.0	7.0 - 12 ft: light brown clayey SILT (ML), moist
8							
9						0.0	
10							
11			Avis B2 (10-12)				wet

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Dollar
Charlotte, North Carolina

Boring Log

Boring Number	Dollar TMW-1
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	18 feet
Water Level:	8.75 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConehey
Date Started: 2/23/2015
Date Finished: 2/23/2015

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
1	0 - 8 feet: Riser	NA			0.0	Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt 0.5 - 4.5 ft: reddish brown CLAY (CL), loose, dry
2						
3					0.0	
4						
5					0.0	4.5 - 5.5 ft: reddish brown silty SAND (SM), moist
6		5 - 6 feet: Bentonite				5.5 - 9.5 ft: reddish brown SILT (ML), loose, moist
7		6 - 18 feet: Sand	Dollar TMW-1 (6-8)		0.0	
8						
9						
10						9.5 - 14 ft: light brown silty SAND (SM), fine grained, wet
11						
12						
13	8 - 18 feet: 0.010-Slot Screen					
14						14 - 18 ft: reddish brown SILT (ML), loose, wet
15						
16						
17						

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Dollar
Charlotte, North Carolina

Boring Log

Boring Number	Dollar TMW-2
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	18 feet
Water Level:	8.54 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConehey
Date Started: 2/25/2015
Date Finished: 2/25/2015

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
						Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1					0.0	0.5 - 2.5 ft: reddish brown CLAY (CL), stiff, dry
2						
3		NA			0.0	2.5 - 10 ft: light brown clayey SILT (ML), moist, some fine grained sand, saprolite
4	0 - 8 feet: Riser					
5					0.0	
6		5 - 6 feet: Bentonite				
7		Dollar TMW-2 (6-8)			0.0	
8						
9						
10						10 - 13 ft: dark brown SILT (ML), wet, saprolite, some dark minerals
11						
12		6 - 18 feet: Sand				
13	8 - 18 feet: 0.010-Slot Screen					13 - 14 ft: light brown sandy CLAY (CL), wet, saprolite
14						14 - 18 ft: dark brown SILT (ML), wet, saprolite, some dark minerals
15						
16						
17						

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Dollar
Charlotte, North Carolina

Boring Log

Boring Number	Dollar TMW-3
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	18 feet
Water Level:	9.37 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConehey
Date Started: 2/25/2015
Date Finished: 2/25/2015

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
						Hand Auger - 0 to 5 feet below ground surface (ft bgs)
						0 - 0.5 ft: Concrete
1					0.0	0.5 - 18 ft: reddish brown clayey SILT (ML), stiff, dry
2						
	NA					
3					0.0	
4	0 - 8 feet: Riser					
5					0.0	
		5 - 6 feet: Bentonite				moist
6						
7		Dollar TMW-3 (6-8)			0.0	(some dark minerals 7.0 - 11 ft)
8						
9						wet
10						
11						
12		6 - 18 feet: Sand				
13	8 - 18 feet: 0.010-Slot Screen					
14						
15						
16						
17						

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Dollar
Charlotte, North Carolina

Boring Log

Boring Number	Dollar TMW-4
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	20 feet
Water Level:	9.89 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConehey
Date Started: 2/25/2015
Date Finished: 2/25/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 9.0 ft: reddish brown clayey SILT (ML), loose, dry
2							
3						0.0	
4		NA					saprolite
5	0 - 10 feet: Riser					0.0	
6							
7						0.0	
8		7 - 8 feet: Bentonite					
9			Dollar TMW-4 (8-10)			0.0	
10							9.0 - 20 ft: light brown SILT (ML), loose, moist, some dark minerals
11							
12							
13							
14		8 - 20 feet: Sand					
15	10 - 20 feet: 0.010-Slot Screen						
16							
17							
18							
19							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Dollar
Charlotte, North Carolina

Boring Log

Boring Number	Dollar TMW-5
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	20 feet
Water Level:	9.81 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: A. Wreshing
Driller: M. McConehey
Date Started: 2/26/2015
Date Finished: 2/26/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 11 ft: reddish brown silty CLAY (CL), loose, dry
2		NA					
3						0.0	
4	0 - 8 feet: Riser						
5						0.0	
		5 - 6 feet: Bentonite					
6							
7						0.0	saprolite
8							
9						0.0	
10							
			Dollar TMW-5 (10-11)			0.0	
11							11 - 15.5 ft: light brown SILT (ML), stiff, wet
12		6 - 18 feet: Sand					
13	8 - 18 feet: 0.010-Slot Screen						
14							
15							
16							15 - 20 ft: light brown sandy SILT (ML), loose, saturated
17							
18							
19							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Dollar
Charlotte, North Carolina

Boring Log

Boring Number Dollar TMW-6
Sheet 1 of 1
Equipment: Geoprobe 6620DT (DPT)
Sampling Method: 5 foot macrocore

Project Manager: Eric Sanderson
Logged By: A. Wreshing
Date Started: 2/26/2015
Depth of Boring: 18 feet

Drilling Company Terrasonic
Driller: M. McConehey
Date Finished: 2/26/2015
Water Level: 9.26 feet below top of casing

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
						Hand Auger - 0 to 5 feet below ground surface (ft bgs)
						0 - 0.5 ft: Asphalt
1					NA	0.5 - 2.0 ft: grey and black gravel (FILL)
2						
		NA				2.0 - 4.0 ft: greyish brown to reddish brown sandy silty CLAY (CL)
3					0.0	
4	0 - 8 feet: Riser					
						4.0 - 6.0 ft: greyish brown SILT (ML), stiff, black redox features
5					0.0	
		5 - 6 feet: Bentonite				
6						
						6.0 - 15 ft: light brown SILT (ML), stiff, black redox features
7					0.0	
8						
9		Dollar TMW-6 (8-10)			0.0	
10						wet
11						
12		6 - 18 feet: Sand				
13	8 - 18 feet: 0.010-Slot Screen					
14						
15						
						15 - 18 ft: light brown sandy SILT (ML), loose, wet
16						
17						

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Enterprise
Charlotte, North Carolina

Boring Log

Boring Number	Enterprise TMW-1
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	Hand Auger
Depth of Boring:	4.5 feet
Water Level:	NA

Project Manager: Eric Sanderson
Logged By: A. Wresching *Date Started:* 2/26/2015
Drilling Company Terrasonic
Driller: M. McConahey *Date Finished:* 2/26/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 4.5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 2.0 ft: reddish brown silty CLAY (CL), stiff, dry
2	NA	NA					
3			ENTER TMW-1 (2-4)			0.0	2.0 - 4.0 ft: brownish grey sandy silty CLAY (CL), stiff, dry
4						0.0	4.0 - 4.5 ft: light grey SAND (SP), hard, dry, (weathered rock), Refusal at 4.5 ft bgs

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Enterprise
Charlotte, North Carolina

Boring Log

Boring Number	Enterprise B1
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	Hand Auger
Depth of Boring:	6.0 feet
Water Level:	NA

Project Manager: Eric Sanderson
Logged By: A. Wresching *Date Started:* 2/26/2015
Drilling Company Terrasonic
Driller: M. McConahey *Date Finished:* 2/26/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 3.0 ft: reddish brown silty CLAY (CL), stiff, dry
2							
3	NA	NA				0.0	
4							3.0 - 6.0 ft: light greyish brown SAND (SP), hard, dry (weathered rock)
5			ENTER B1 (4-6)			0.0	
6							Refusal at 6.0 ft bgs

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Hertz
Charlotte, North Carolina

Boring Log

Boring Number Hertz TMW-1
Sheet 1 of 1
Equipment: Geoprobe 7720DT (DPT)
Sampling Method: 5 foot macrocore

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/20/2015
Depth of Boring: 18 feet

Drilling Company Terrasonic
Driller: J. Allen
Date Finished: 2/20/2015
Water Level: 8.82 feet below top of casing

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
						Hand Auger - 0 to 5 feet below ground surface (ft bgs)
						0 - 0.5 ft: Asphalt
1			Y		2,370	0.5 - 4.5 ft: dark brown CLAY (CL), loose, moist, odor and discoloration
2						
3	NA	Hertz TMW-1 (2-4)			16,528	
4	0 - 8 feet: Riser					
5			Y		9752	4.5 - 8.5 ft: light brown CLAY (CL), loose, dry, odor
6	5 - 6 feet: Bentonite					
7					NR	
8						
9		Hertz TMW-1 (8-10)			5,729	8.5 - 13 ft: grey silty CLAY (CL), loose, moist, odor
10						wet
11						
12	6 - 18 feet: Sand					
13	8 - 18 feet: 0.010-Slot Screen					13 - 18 ft: light brown clayey SILT, wet, saprolite
14						
15						
16						
17						
18						

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Hertz
Charlotte, North Carolina

Boring Log

Boring Number	Hertz B1
Sheet	1 of 1
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	11 feet
Water Level:	NA

Project Manager:	Eric Sanderson	*Logged By:* B. Morrow	*Date Started:* 2/18/2015		
Drilling Company	Terrasonic	*Driller:* J. Allen	*Date Finished:* 2/18/2015		

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 1.0 ft: Asphalt, gravel
1							1.0 - 9.5 ft: reddish brown CLAY (CL), soft, dry, mottled
2							
3						0.0	
4							
5						0.0	
	NA	NA					
6							
7						0.0	
8							
9			Hertz B1 (8-10)			0.0	
10							9.5 - 11 ft: light brown clayey SILT (ML), wet

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Hertz
Charlotte, North Carolina

Boring Log

Boring Number	Hertz B2
Sheet	1 of 1
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	10 feet
Water Level:	Unk

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/18/2015
Drilling Company Terrasonic
Driller: J. Allen
Date Finished: 2/18/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs)
							0 - 1.0 ft: Asphalt
1							
							1.0 - 1.5 ft: gravel (FILL)
							1.5 - 5.0 ft: reddish brown silty CLAY (CL), soft, dry
2							
3						0.0	
4							
5	NA	NA				0.0	
							5.0 - 6.0 ft: reddish brown clayey SILT (ML), loose, dry
6							
							6.0 - 10 ft: white to grey SILT (ML), moist
7						0.0	
8							
9			Hertz B2 (8-10)			0.0	
							wet

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Hertz
Charlotte, North Carolina

Boring Log

Boring Number	Hertz B3
Sheet	1 of 1
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	11 feet
Water Level:	NA

Project Manager:	Eric Sanderson	*Logged By:* B. Morrow	*Date Started:* 2/18/2015		
Drilling Company	Terrasonic	*Driller:* J. Allen	*Date Finished:* 2/18/2015		

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 1.0 ft: Asphalt
1							
				Y			1.0 - 8.0 ft: reddish brown to white clayey SILT (ML), dry, odor
2							
3						97.3	
4							
5						9.8	
	NA	NA					
6							
7						56.4	
8							
				Y			8.0 - 11 ft: white to yello clayey SILT (ML), dry, odor
9			Hertz B3 (8-10)			1,330	
10							Moist

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Hertz
Charlotte, North Carolina

Boring Log

Boring Number	Hertz B4
Sheet	1 of 1
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	9 feet
Water Level:	NA

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/18/2015
Drilling Company Terrasonic
Driller: J. Allen
Date Finished: 2/18/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 1.0 ft: Asphalt
1							
							1.0 - 4.0 ft: light brown CLAY (CL), loose, dry, some sand, mottled
2							
3						0.0	
4							
	NA	NA					4.0 - 6.0 ft: light brown CLAY (CL), loose, dry
5						0.0	
6							
							6.0 - 9.0 ft: white and black sandy SILT (ML), moist
7			Hertz B4 (6-8)			0.0	
8							
							wet

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: National
Charlotte, North Carolina

Boring Log

Boring Number National TMW-1
Sheet 1 of 2
Equipment: Geoprobe 6620DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 20 feet
Water Level: 11.90 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConahey
Date Started: 2/27/2015
Date Finished: 2/27/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
0							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						97.3	0.5 - 2.0 ft: reddish brown SILT (ML), loose, dry
2							
3						6,491	2.0 - 5.5 ft: light brown clayey SILT (ML), moist
4		NA					
5	0 - 10 feet: Riser		National TMW-1 (4-6)			7,818	
6							5.5 - 8.5 ft: grey sandy SILT (ML), stiff, dry
7						3,633	
8		7 - 8 feet: Bentonite					
9			National TMW-1 (8-10)			1,710	8.5 - 9.5 ft: reddish brown SAND (SP), fine grained, dry
10							9.5 - 11.5 ft: light brown SILT (ML), wet
11							
12							11.5 - 20 ft: reddish brown SILT, wet, some dark minerals
13							
14		8 - 20 feet: Sand					(some sand)
15	10 - 20 feet: 0.010-Slot Screen						
16							
17							
18							
19							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: National
Charlotte, North Carolina

Boring Log

Boring Number	National TMW-2
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	20 feet
Water Level:	10.40 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConahey
Date Started: 2/27/2015
Date Finished: 2/27/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 2.0 ft: light brown silty CLAY (CL), some sand
2							
3						0.0	2.0 - 4.0 ft: light brown CLAY (CL), stiff
4		NA					
5	0 - 10 feet: Riser					0.0	4.0 - 6.5 ft: black sandy SILT (ML) orgaic material
6							
7						570.1	6.5 -12 ft: grey clayey SILT (ML), moist
8		7 - 8 feet: Bentonite					
9			National TMW-2 (8-10)			887.2	
10							
11							
12							12 -15 ft: grey clayey SAND (SC), fine to medium grained, wet
13							
14		8 - 20 feet: Sand					
15	10 - 20 feet: 0.010-Slot Screen						15 - 20 ft: light brown SAND (SP), fine to medium grained, wet
16							
17							
18							
19							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: National
Charlotte, North Carolina

Boring Log

Boring Number National TMW-3
Sheet 1 of 2
Equipment: Geoprobe 6620DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 22 feet
Water Level: 10.44 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConahey
Date Started: 2/27/2015
Date Finished: 2/27/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Gravel
1						0.0	0.5 - 3.0 ft: light brown silty SAND (SM), dry
2							
3						0.0	
4							3.0 - 9.0 ft: reddish brown CLAY (CL), stiff, moist
5		NA				0.0	
6	0 - 12 feet: Riser						
7						32.1	
8							
9						1,089	
		9 - 10 feet: Bentonite					9.0 - 13 ft: grey clayey SAND (SC), fine grained, moist
10							
11			National TMW-3 (10-12)			1,116	
12							
13							
							13 - 13.5 ft: grey CLAY (CL), soft, wet
14							13.5 - 18 ft: grey SILT (ML),wet, saprolite
15	12 - 22 feet: 0.010-Slot Screen	10 - 22 feet: Sand					
16							
17							
18							
							18 - 22 ft: light rown SILT (ML), wet, saprolite

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: National
Charlotte, North Carolina

Boring Log

Boring Number National TMW-2
Sheet 2 of 2
Equipment: Geoprobe 6620DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 22 feet
Water Level: 10.44 feet below top of casing

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/27/2015
Drilling Company Terrasonic
Driller: M. McConahey
Date Finished: 2/27/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
20	12 - 22 feet: 0.010-Slot Screen	10 - 22 feet: Sand					18 - 22 ft: light brown SILT (ML), wet, saprolite
21							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: National
Charlotte, North Carolina

Boring Log

Boring Number National TMW-4
Sheet 1 of 2
Equipment: Geoprobe 6620DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 22 feet
Water Level: 10.44 feet below top of casing

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/27/2015
Drilling Company Terrasonic
Driller: M. McConahey
Date Finished: 2/27/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						75.5	0.5 - 6.0 ft: reddish brown CLAY (CL), very stiff, dry
2							
3						78.6	
4							
5		NA	National TMW-4 (4-6)			136	
6	0 - 12 feet: Riser						6.0 - 6.5 ft: reddish brown SILT (ML), loose, dry
7						0.0	6.5 - 14.5 ft: reddish brown CLAY (CL), very stiff, dry
8							
9						0.0	
10		9 - 10 feet: Bentonite					
11			National TMW-4 (10-12)			311.1	
12							
13							
14							
15	12 - 22 feet: 0.010-Slot Screen	10 - 22 feet: Sand					14.5 - 16 ft: grey clayey SAND (SC), fine grained, wet
16							16 - 21 ft: grey SAND (SP), fine to medium grained, wet
17							
18							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: National
Charlotte, North Carolina

Boring Log

Boring Number National TMW-4
Sheet 2 of 2
Equipment: Geoprobe 6620DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 22 feet
Water Level: 10.44 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: M. McConahey
Date Started: 2/27/2015
Date Finished: 2/27/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
20	12 - 22 feet: 0.010-Slot Screen	10 - 22 feet: Sand					16 - 21 ft: grey SAND (SP), fine to medium grained, wet
21							21 - 22 ft: grey silty SAND (SM), wet, saprolite

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: National
Charlotte, North Carolina

Boring Log

Boring Number	National B1
Sheet	1 of 1
Equipment:	Geoprobe 6620DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	2.0 feet
Water Level:	2.0 feet below ground surface

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/27/2015
Drilling Company Terrasonic
Driller: M. McConahey
Date Finished: 2/27/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
1	NA	NA	National B1 (0-2)			0.0	Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 1.0 ft: concrete 1.0 - 2.0 ft: reddish brown CLAY (CL), moist (water encountered at 2 ft bgs)

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: National
Charlotte, North Carolina

Boring Log

Boring Number National B2
Sheet 1 of 1
Equipment: Geoprobe 6620DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 13 feet
Water Level: NA

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/27/2015
Drilling Company Terrasonic
Driller: M. McConahey
Date Finished: 2/27/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Asphalt
1						0.0	0.5 - 3.0 ft: reddish brown clayey SILT (ML), loose, moist
2							
3						0.0	
4							3.0 - 7.0 ft: grey SAND (SP), fine grained, dry
5						0.0	
6							(60% recovery 5 - 10 ft)
7	NA	NA				NR	7.0 - 10.5 ft: light brown SAND (SP), fine grained, dry, some silt
8							
9						2,797	
10							
11			National B2 (10-12)	Y		1,997	10.5 - 13 ft: grey SAND (SP), fine to medium grained, moist, odor
12							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: (Former) Payless
Charlotte, North Carolina

Boring Log

Boring Number Payless TMW-1
Sheet 1 of 2
Equipment: Geoprobe 7720DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 25 feet
Water Level: 13.41 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: J. Allen
Date Started: 2/20/2015
Date Finished: 2/20/2015

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
						Hand Auger - 0 to 5 feet below ground surface (ft bgs)
						0 - 0.5 ft: Gravel
1					0.0	0.5 - 8.5 ft: reddish brown CLAY (CL), loose, moist
2						
3					0.0	
4						
5					0.0	
6		NA				dry
7					0.8	
8	0 - 15 feet: Riser					
9					1.1	8.5 - 9.0 ft: light brown clayey SAND (SC), dry
10						9.0 - 17 ft: reddish brown CLAY (CL), loose, dry
11						(40% recovery 10 - 15 ft)
12					NR	
13		12 - 13 feet: Bentonite				(several large quartz cobbles 13 - 15 ft)
14		Payless TMW-1 (13-15)			260.2	
15						wet
16		13 - 25 feet: Sand				
17	15 - 25 feet: 0.010-Slot Screen					17 - 19 ft: light brown CLAY (CL), wet
18						

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: (Former) Payless
Charlotte, North Carolina

Boring Log

Boring Number	Payless TMW-1
Sheet	2 of 2
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	25 feet
Water Level:	13.41 feet below top of casing

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/20/2015
Drilling Company Terrasonic
Driller: J. Allen
Date Finished: 2/20/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
20	15 - 25 feet: 0.010-Slot Screen	13 - 25 feet: Sand					19 - 23 ft: dark brown SAND (SP), medium grained, wet
21							
22							
23							23 - 25 ft: dark grey clayey SAND (SC), wet, some organics
24							

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: (Former) Payless
Charlotte, North Carolina

Boring Log

Boring Number Payless TMW-2
Sheet 1 of 2
Equipment: Geoprobe 7720DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 23 feet
Water Level: 13.70 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: J. Allen
Date Started: 2/20/2015
Date Finished: 2/20/2015

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
0					0.0	Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: Gravel
1						0.5 - 7 ft: reddish brown CLAY (CL), soft, dry
2					0.0	
3						
4					0.0	
5		NA				
6					0.0	
7	0 - 13 feet: Riser				0.0	7.0 - 10 ft: reddish brown sandy CLAY (CL), soft, medium grained, dry
8						
9					0.0	
10		10 - 11 feet: Bentonite				10 - 19.5 ft: reddish brown CLAY (CL), soft, dry
11					NR	stiff
12						
13		Payless TMW-2 (12-14)			0.0	
14						wet
15		11 - 23 feet: Sand				
16	13 - 23 feet: 0.010-Slot Screen					
17						
18						

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: (Former) Payless
Charlotte, North Carolina

Boring Log

Boring Number	Payless TMW-2
Sheet	2 of 2
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	23 feet
Water Level:	13.70 feet below top of casing

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/20/2015
Drilling Company Terrasonic
Driller: J. Allen
Date Finished: 2/20/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							10 - 19.5 ft: reddish brown CLAY (CL), soft, dry
20	13 - 23 feet: 0.010-Slot Screen	11 - 23 feet: Sand					19.5 - 22.5 ft: dark grey SAND (SP), fine grained, wet
21							
22							
							22.5 - 23 ft: light brown SILT (ML), dry, saprolite

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: (Former) Payless
Charlotte, North Carolina

Boring Log

Boring Number Payless TMW-3
Sheet 1 of 2
Equipment: Geoprobe 7720DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 23 feet
Water Level: 13.58 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: J. Allen
Date Started: 2/20/2015
Date Finished: 2/20/2015

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
0						Hand Auger - 0 to 5 feet below ground surface (ft bgs)
						0 - 1.0 ft: Gravel
1					0.0	
						0.5 - 4.0 ft: dark brown to reddish brown CLAY (CL), stiff, dry
2						
					33.8	
3						
4						
						4.0 - 4.5 ft: grey SILT (ML), very loose
5	NA	Payless TMW-3 (4-6)			45.7	4.5 - 18 ft: light brown to reddish brown clayey SILT (ML), loose, dry, some sand
6						
	0 - 13 feet: Riser					
7					14.4	
8						
9					0.0	
10						
	10 - 11 feet: Bentonite					
11					0.0	
12						stiff
13						
14						wet
15	11 - 23 feet: Sand					
16	13 - 23 feet: 0.010-Slot Screen					
17						
18						
						18 - 22 ft: light brown SAND (SP), fine grained, wet, well soted

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: (Former) Payless
Charlotte, North Carolina

Boring Log

Boring Number	Payless TMW-3
Sheet	2 of 2
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	23 feet
Water Level:	13.58 feet below top of casing

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/20/2015
Drilling Company Terrasonic
Driller: J. Allen
Date Finished: 2/20/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
20	13 - 23 feet: 0.010-Slot Screen	11 - 23 feet: Sand					18 - 22 ft: light brown SAND (SP), fine grained, wet, well sorted
21							
22							22 - 23 ft: yellow to reddish brown SILT (ML), wet, saprolite

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: (Former) Payless
Charlotte, North Carolina

Boring Log

Boring Number Payless TMW-4
Sheet 1 of 2
Equipment: Geoprobe 7720DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 23 feet
Water Level: 13.30 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: J. Allen
Date Started: 2/20/2015
Date Finished: 2/20/2015

Depth (ft)	Well Construction	Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
						Hand Auger - 0 to 5 feet below ground surface (ft bgs)
						0 - 0.5 ft: gravel
1					0.0	0.5 - 9.0 ft: reddish brown CLAY (CL), soft, moist
2						
3					0.0	
4						
5		NA			0.0	
6						(50% recovery 5 - 10 ft)
7	0 - 13 feet: Riser				NR	
8						
9		Payless TMW-4 (8-10)			28.7	
10						9.0 - 19 ft: light brown CLAY (CL), soft, moist
11		10 - 11 feet: Bentonite			NR	(40% recovery 10 - 15 ft)
12						
13						
14						wet
15		11 - 23 feet: Sand				
16	13 - 23 feet: 0.010-Slot Screen					
17						
18						

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: Payless
Charlotte, North Carolina

Boring Log

Boring Number Payless TMW-4
Sheet 2 of 2
Equipment: Geoprobe 7720DT (DPT)
Sampling Method: 5 foot macrocore
Depth of Boring: 23 feet
Water Level: 13.30 feet below top of casing

Project Manager: Eric Sanderson
Drilling Company Terrasonic
Logged By: B. Morrow
Driller: J. Allen
Date Started: 2/20/2015
Date Finished: 2/20/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
20	13 - 23 feet: 0.010-Slot Screen	11 - 23 feet: Sand					19 - 21 ft: dark grey SAND (SP), fine grained, wet
21							21 - 22 ft: grey SAND (SP), coarse grained, wet well sorted
22							22 - 23 ft: reddish brown to grey SAND (SP), fine grained, wet, well sorted

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: (Former) Payless
Charlotte, North Carolina

Boring Log

Boring Number	Payless B1
Sheet	1 of 1
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	5 foot macrocore
Depth of Boring:	13 feet
Water Level:	NA

Project Manager: Eric Sanderson
Logged By: B. Morrow
Date Started: 2/20/2015
Drilling Company Terrasonic
Driller: J. Allen
Date Finished: 2/20/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs) 0 - 0.5 ft: concrete
1				Y		4,712	0.5 - 4.0 ft: reddish brown CLAY (CL), soft, moist, odor
2							
3						10,658	
4							
5			Payless B1 (4-6)	Y		> MAX	4.0 - 6.0 ft: dark brown clayey SAND (SC), moist, odor
6							
7	NA	NA				3.1	6.0 - 10.5 ft: reddish brown CLAY (CL), stiff, dry
8							
9						275.1	
10							
11			Payless B1 (10-12)	Y		10,658	10.5 - 11.5 ft: green clayey SILT (ML), moist, odor, discoloration
12				Y			11.5 - 13 ft: Reddish brown CLAY, soft, moist, odor

AECOM

Project Number: 38941670
Client: Charlotte Douglas International Airport
Site: (Former) Payless
Charlotte, North Carolina

Boring Log

Boring Number	Payless B2
Sheet	1 of 1
Equipment:	Geoprobe 7720DT (DPT)
Sampling Method:	Hand Auger
Depth of Boring:	10 feet
Water Level:	NA

Project Manager: Eric Sanderson
Logged By: B. Hill
Date Started: 2/20/2015
Drilling Company Terrasonic
Driller: J. Allen
Date Finished: 2/20/2015

Depth (ft)	Well Construction		Sample Collected	Odor Present	Blows	PID (ppm)	Field Description of Materials
							Hand Auger - 0 to 5 feet below ground surface (ft bgs)
							0 - 1.5 ft: Gravel
1						0.0	
							1.5 - 6.0 ft: light brown silty SAND (SM), loose, fine to medoium grained, moist
2							
3						0.0	
4							
5	NA	NA				112.4	
6							
				Y			6.0 - 10 ft: greenish grey to dark grey silty SAND (SM), loose, fine to medium grained, wet, odor increased with depth
			Payless B2 (6-8)	Y			
7				Y		177.6	
				Y			
8				Y			
				Y			
9				Y		967.2	
				Y			

Appendix F.
Groundwater Field Measurements

Water Sample Collection Field Sheet

Project Name: **Charlotte Airport Rental Car Facilities** Project No: 38941670

Sample ID: [redacted] Avis TMW-1

Date/Time Collected: 2/25/15 1510 Personnel: Matthew Stone

Sample Method: Low flow / Peristaltic

SAMPLE MEDIA: **Groundwater**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOC 6200S
3 VOA	HCl	VPH
2 Amber	HCl	EPH
2 Amber	None	SVOC + 10 TICs 625
1 Plastic	HNO_3	Cr/Pb

WELL PURGING DATA

Date	2/25/15	Well Depth (ft. BTOC)	24
Time Started	1440	Depth to Water (ft BTOC)	14.01
Time Completed	1510	Actual Purge (gallons)	1.0
		Purge rate (milliliters/min)	

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1440	14.01	6.78	16.93	0.093	52.1	4.61	>1000
1445	—	6.71	17.26	0.099	39.4	4.28	502
1450	—	6.58	17.12	0.091	42.0	4.16	315
1455	—	6.36	17.05	0.077	52.9	4.54	307
1500	—	6.29	17.10	0.074	57.7	4.72	224
1505	—	6.26	17.05	0.073	62.3	4.72	184
1510	—	6.23	17.06	0.074	62.7	4.75	187

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	Solinst Advantage TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for used oil

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Axis TMW-6

Date/Time Collected: 3/2/15

Sample Method: Low-Flow / Peristaltic

Personnel: ~~Matthew Stone~~ Byron Hill

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCL	G2008
3 VOA	HCL	MADEP VPH
1 plastic	HNO3	Pb

WELL PURGING DATA

Date	3/2/15	Well Depth (ft. BTOC)	17.30
Time Started	1250	Depth to Water (ft BTOC)	12.21
Time Completed	1310	Actual Purge (gallons)	1.0 gal
		Purge rate (milliliters/min)	—

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1250	13.51	6.31	20.7	0.627	108.2	2.16	>1000
1255	13.55	6.44	20.86	0.627	100.9	2.08	>1000
1300	13.75	6.46	20.80	0.642	98.2	1.48	689
1305	13.80	6.45	20.35	0.663	93.7	1.16	49.19
1310	13.85	6.46	20.61	0.662	90.0	1.03	45.55

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Dollar TMW-1	—	—
Pump	—	—	—
Water Quality Meter	—	—	—
Turbidity Meter	—	—	—

GENERAL COMMENTS Sample for Low-BP

Sample Time: 1310

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Advantage TMW-1

Date/Time Collected: 2/25/15 1000 Personnel: Matthew Stone

Sample Method: Peristaltic/low flow

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3VOA	HCl	6200s VOA
3VOA	HCl	VPH
1 Plastic	HNO_3	Pb

WELL PURGING DATA

Date: 2/25/15

Time Started: 0215

Time Completed: Dry

Well Depth (ft. BTOC): 20

Depth to Water (ft BTOC): 11.75

Actual Purge (gallons): 0.25

Purge rate (milliliters/min): —

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
0215	11.75	6.39	17.01	1.481	41.4	2.10	>1000
0820	—	6.27	16.88	1.465	35.1	1.33	>1000
0825	—	6.23	17.11	1.356	4.4	1.06	>1000
0830	—	Dry @ 0.25 gallons					
0835							

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	Heron H.O.I	18337	—
Pump	Peristaltic Pump	4433	—
Water Quality Meter	YSI - 556	17383	2/25/15
Turbidity Meter	HACH - 2100Q	025973	2/25/15

GENERAL COMMENTS Sample for Low BP fuels / Turbidity = 292 mobile filling facilities

DUP-3 0800

(well went dry wait for recharge)

Water Sample Collection Field Sheet

Project Name: **Charlotte Airport Rental Car Facilities** Project No: 38941670

Sample ID: Advantage TMW-2

Date/Time Collected: 2/25/15 0925 Personnel: Matthew Stone

Sample Method: Peristaltic/Low flow

SAMPLE MEDIA: **Groundwater**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	6010B VOC
3 VOA	HCl	VPH
1 Plastic	HNO_3	Pb

WELL PURGING DATA

Date: 2/25/15

Time Started: 0845

Time Completed: 0925

Well Depth (ft. BTOC): 20

Depth to Water (ft BTOC): 11.70

Actual Purge (gallons): 1.0

Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
0845	11.70	6.42	14.16	0.341	32.0	4.60	>1000
0850	—	6.42	15.81	0.341	20.6	1.70	>1000
0855	—	6.48	16.48	0.336	21.5	1.35	>1000
0900	—	6.53	17.52	0.386	-8.5	0.40	608
0905	—	6.54	17.40	0.426	-29.2	0.32	415
0910	—	6.62	17.66	0.453	-45.0	0.29	497
0915	—	6.63	17.66	0.470	-52.2	0.28	457
0920	—	6.67	17.66	0.475	-58.6	0.27	462
0925	—	6.68	17.68	0.479	-59.2	0.24	431

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	SOC Advantage TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for low BP fuels

TMW-3 : 19.45

TMW-4 : 17.85

Water Sample Collection Field Sheet

Project Name: **Charlotte Airport Rental Car Facilities** Project No: 38941670

Sample ID: Advantage TMW-3

Date/Time Collected: 2/25/15 ~~0950~~ MS (2/27/15 0840) Personnel: Matthew Stone

Sample Method: Peristaltic Pump

SAMPLE MEDIA: **Groundwater**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
2 VOA	HCl	6200B VOCs
2 VOA	HCl	VPH
1 Plastic	HNO_3	Pb

WELL PURGING DATA

Date: 2/25/15

Time Started: —

Time Completed: —

Well Depth (ft. BTOC): 20

Depth to Water (ft BTOC): 19.55

Actual Purge (gallons): —

Purge rate (milliliters/min): —

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
—		Not enough water for Readings					

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe			
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Only 0.15' of water in well can only sample for VOCs have to wait for recharge between VOAs

2/27/15 water at 17.56, sampled at 0840, Pb bottle 2/3 full, will submit

Water Sample Collection Field Sheet

Project Name: **Charlotte Airport Rental Car Facilities** Project No: 38941670

Sample ID: Advantage TMW-4

Date/Time Collected: 2/24/15 ~~1555~~ NS (2/25/15 0945) Personnel: Matthew Stone

Sample Method: low flow / peristaltic

SAMPLE MEDIA: **Groundwater**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	6200S VOCs
3 VOA	HCl	VPH
1 Plastic	HNO_3	Pb

WELL PURGING DATA

Date: 2/24/15

Time Started: 1550

Time Completed: —

Well Depth (ft. BTOC): 20

Depth to Water (ft BTOC): 18.34

Actual Purge (gallons): —

Purge rate (milliliters/min): —

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
—	Not enough water for Reading			—	—	—	

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Hertz TMW-1	—	—
Pump	—	—	—
Water Quality Meter	—	—	—
Turbidity Meter	—	—	—

GENERAL COMMENTS

Sample for low boiling point fuels
- only able to take Turbidity reading, wait for Recharge and samples are taken
Sample collected on 2/25/15 0945 turbidity = 179

Water Sample Collection Field Sheet

Project Name: **Charlotte Airport Rental Car Facilities** Project No: 38941670

Sample ID: Advantage TMW-5

Date/Time Collected: 2/25/15 1105 Personnel: Matthew Stone

Sample Method: Peristaltic / Low flow

SAMPLE MEDIA: **Groundwater**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
2 amber	HCl	EPH
2 amber	None	SVOC + 10 TICs

WELL PURGING DATA

Date: 2/25/15

Time Started: 1035

Time Completed: 1105

Well Depth (ft. BTOC): 22

Depth to Water (ft BTOC): 13.55

Actual Purge (gallons): 1.0 g

Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1035	13.55	6.73	16.10	0.338	-26.8	0.25	>1000
1040	—	6.44	16.80	0.334	-29.0	0.26	>1000
1045	—	6.34	17.59	0.374	-40.2	0.11	>1000
1050	—	6.32	17.61	0.393	-46.8	0.10	352
1055	—	6.29	17.56	0.405	-49.5	0.07	260
1100	—	6.26	17.53	0.408	-49.7	0.07	152
1105	—	6.25	17.51	0.409	-49.8	0.06	129

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	Look at Advantage TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sampled for Heavy Fuels

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Bullet TMW-1

Date/Time Collected: 2/20/15 1145 Personnel: Matthew Stone

Sample Method: Low Flow

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	6200B
3 VOA	HCl	VPH
1 1L Amber	HCl	EPH
1 1L Amber	Un-	8325
1 Plastic	HNO_3	Cr/Pb

WELL PURGING DATA

Date	2/20/15	Well Depth (ft. BTOC)	25
Time Started	0825	Depth to Water (ft BTOC)	13.45
Time Completed	0839	Actual Purge (gallons)	0.5
		Purge rate (milliliters/min)	—

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
0825	13.45	6.59	15.07	0.125	36.2	3.12	162
0830	—	6.60	16.34	0.127	11.2	1.67	282
—	—	DRY 1/2 Gallon	—	—	—	—	—

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	Solinst	1162	—
Pump	Peristaltic	4433 (Fine)	—
Water Quality Meter	YSI-556	17323	
Turbidity Meter	HACH 2100Q	025973	2/20/15

GENERAL COMMENTS Wait for well to recharge.

Water Sample Collection Field Sheet

Project Name: **Charlotte Airport Rental Car Facilities** Project No: 38941670

Sample ID: Budget TMW-2

Date/Time Collected: 2/20/ 0930 Personnel: Matthew Stone

Sample Method: Low flow/Peristaltic

SAMPLE MEDIA: **Groundwater**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	8260B
3 VOA	HCl	VPH
2 Amber 1L	Un	625
2 Amber 1L	HCl	~~Freon~~ EPH
1 plastic	HNO3	~~-~~ TPH

WELL PURGING DATA

Date	2/20/15	Well Depth (ft. BTOC)	20.0
Time Started	0855	Depth to Water (ft BTOC)	13.17
Time Completed	0930	Actual Purge (gallons)	1.5
		Purge rate (milliliters/min)	

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
0855	13.17	6.03	15.91	0.375	-43.2	0.93	>1000
0900	—	6.15	15.85	0.375	-70.1	0.42	103
0905	—	6.16	16.23	0.378	-79.9	0.34	65.3
0910	—	6.16	16.45	0.381	-78.4	0.34	51.4
0915	—	6.16	16.74	0.383	-77.6	0.28	40.3
0920	—	6.15	16.63	0.382	-75.4	0.25	49.4
0925		6.14	16.63	0.385	-72.6	0.27	47.2

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe			
Pump		See Budget TMW-1	
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS See Budget TMW-1 for Equipment Used

DUP-1 / 0800

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Budget TMW-3

Date/Time Collected: 2/20/15 (2/2/15 1315) Personnel: Matthew Stone

Sample Method: Low flow / Peristaltic

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	6200B
3 VOA	HCl	VOA
1 Plastic	HNO_3	PB

WELL PURGING DATA

Date	2/20/15	Well Depth (ft. BTOC)	29
Time Started	1330	Depth to Water (ft BTOC)	16.26
Time Completed	1345	Actual Purge (gallons)	0.25 Gal
		Purge rate (milliliters/min)	—

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1330	16.26	6.56	14.13	0.324	-53.2	0.47	>1000
1335	—	6.51	14.25	0.339	-60.9	0.51	>1000
1340	—	Dry @	1/4 gallon	—	—	—	—
1345							

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe			
Pump		See Budget TMW-1	
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Well went Dry, wait for Recharge

- Well sampled on 2/25/15 @ 1315 (water very turbid)

Water Sample Collection Field Sheet

Project Name: **Charlotte Airport Rental Car Facilities** Project No: 38941670

Sample ID: Budget TMW-4

Date/Time Collected: 2/20/15 (2/21/15 1335) Personnel: Matthew Stone

Sample Method: Peristaltic / Low flow

SAMPLE MEDIA: **Groundwater**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
2 VOA	HCl	VOCs 6200B
2 VOA	HCl	VPH
1 Plastic	HNO_3	Pb

WELL PURGING DATA

Date: 2/20/15

Time Started: —

Time Completed: —

Well Depth (ft. BTOC): 22

Depth to Water (ft BTOC): 21.83

Actual Purge (gallons): —

Purge rate (milliliters/min): —

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
—	Not enough water for Readings						

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Budget TMW-1	—	
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for low BP fuels

Well sampled on 2/21/15 1335, recorded to well for recharge (DTW 18.43)

Water Sample Collection Field Sheet

Project Name: **Charlotte Airport Rental Car Facilities** Project No: 38941670

Sample ID: Budget TMW-5

Date/Time Collected: 2/20/15 1400 Personnel: Matthew Stone

Sample Method: low flow / Peristaltic

SAMPLE MEDIA: **Groundwater**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	6200B
3 VOA	HCl	VPH
1 Plastic	HNO_3	Pb

WELL PURGING DATA

Date: 2/20/15

Time Started: —

Time Completed: —

Well Depth (ft. BTOC): 25.00

Depth to Water (ft BTOC): 18.55

Actual Purge (gallons): —

Purge rate (milliliters/min): —

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
—	Not enough water for Reading						

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe		See Budget TMW-1	
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Wait for well to recharge

- Not enough water to grab Pb on 2/20/15
- Pb sample collected on 2/21/15 1310

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities
Project No: 38941670

Sample ID: Budget TMW- 6 ~~1220~~ ~1
Date/Time Collected: 2/20/15 (2/25/15 1305)
Sample Method: Low Flow / Peristaltic
Personnel: Matthew Stone

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	8260B
3 VOA	HCl	VPH
1 Plastic	HNO3	Pb

WELL PURGING DATA

Date: 2/20/15
Time Started: ~~1130~~ 1135
Time Completed: 1140

Well Depth (ft. BTOC): 23
Depth to Water (ft BTOC): 19.05
Actual Purge (gallons): 1 L
Purge rate (milliliters/min): —

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1135	19.05	6.61	14.18	0.327	-39.2	1.23	247
1140	—	DRY @ 1 L	Her	—	—	—	—
1145							
1150							

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe			
Pump		See Budget TMW-1	
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Wait for well to recharge
Sampled on 2/25/15 1305

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Dollar TMW-1

Date/Time Collected: 2/27/15 1025 Personnel: Matthew Stone

Sample Method: Low flow/Peristaltic

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	6200B VOCs
3 VOA	HCl	VPH
1 Plastic	HNO_3	Pb

WELL PURGING DATA

Date: 2/27/15

Time Started: [redacted] 1000

Time Completed: 1025

Well Depth (ft. BTOC): 18

Depth to Water (ft BTOC): 8.75

Actual Purge (gallons): 1.0 gal

Purge rate (milliliters/min): —

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1000 [redacted]	8.75	5.97	17.33	0.162	118.3	4.25	553.1
1005	—	5.55	17.15	0.167	121.1	3.74	304.6
1010	—	5.49	16.90	0.169	119.4	3.20	347.6
1015	—	5.54	16.84	0.168	106.4	3.25	[redacted] 350.7
1020	—	5.55	16.82	0.163	104.7	3.22	[redacted] 258.1
1025	—	5.56	16.90	0.165	105.6	3.22	[redacted] 342.1

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	Heron H.O.1	18337 (Pac)	—
Pump	Peristaltic Pump	4433 (Pac)	—
Water Quality Meter	YSI 556	19883 (Pac)	2/27/15
Turbidity Meter	Micro TPI	00688 Enviro	2/27/15

GENERAL COMMENTS Sample low BP ~~[redacted]~~ Water could not be

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities | Project No: 38941670

Sample ID: Dollar TMW-2

Date/Time Collected: 2/27/15 1130 | Personnel: Matthew Stone

Sample Method: Peristaltic / Low flow

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOCs 6200B
3 VOA	HCl	VPH
1 Plastic	HNO_3	Pb

WELL PURGING DATA

Date	2/27/15	Well Depth (ft. BTOC)	18
Time Started	1055	Depth to Water (ft BTOC)	8.54
Time Completed	1130	Actual Purge (gallons)	1.0
		Purge rate (milliliters/min)	—

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1055	8.54	5.72	17.95	0.476	121.1	4.52	805.2
1100	—	5.81	18.10	0.496	107.5	2.02	728.1
1105	—	5.71	18.40	0.575	105.7	1.93	886.0
1110	—	5.61	18.07	0.563	109.3	1.83	725.0
1115	—	5.49	17.85	0.522	114.6	2.12	352.5
1120	—	5.47	17.63	0.525	115.3	2.17	200.4
1125	—	5.45	17.63	0.525	116.4	2.13	162.3
1130	—	5.42	17.61	0.526	118.2	2.11	144.5

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	-See Dollar TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for Low BP (DUP-4 0800)

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Dollar TMW-3

Date/Time Collected: Personnel: ~~Matthew Stone~~ Ryan Hall

Sample Method: Peristaltic low flow

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
2 VOA	HCl	VOCs 6200B
3 VOA	HCl	VPH
1 Plastic	HNO_3	PL

WELL PURGING DATA

Date: 3/2/15

Time Started: 0900

Time Completed: 0935

Well Depth (ft. BTOC): 18

Depth to Water (ft BTOC): ~~9.26~~ 9.37

Actual Purge (gallons): 1 Gal

Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
0900	9.37	7.02	12.79	0.667	179.7	11.49	71000
0905	9.97	6.98	15.07	0.152	114.4	8.40	528.7
0910	10.40	6.85	17.18	0.207	113.0	1.90	382.1
0915	10.43	5.95	16.84	0.201	118.3	1.73	356.9
0920	10.55	5.71	17.16	0.202	121.9	1.43	381.6
0925	10.61	5.57	17.25	0.205	126.3	1.30	636.7
0930	10.64	5.48	17.37	0.205	139.0	1.22	788.5
0935	10.66	5.44	17.20	0.205	140.2	1.20	

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Dollar TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for low BF

Sample Time: 0935

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Dollar TMW-4 #

Date/Time Collected: 2/27/15 1340 Personnel: Matthew Stone

Sample Method: Peristaltic / Low Flow

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOCs + xylene 602
3 VOA	HCl	VPH
1 Amber	HCl	EPH
1 Amber	None	SVOC + 10 TICs

WELL PURGING DATA

Date: 2/27/15

Time Started: 1305

Time Completed: 1340

Well Depth (ft. BTOC): 19.5

Depth to Water (ft BTOC): 9.89

Actual Purge (gallons):

Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1305	9.89	6.64	17.01	0.176	103.4	7.38	724.5
1310	—	7.21	17.37	0.157	94.7	7.08	616.0
1315	—	7.80	17.35	0.153	94.3	7.01	498.2
1320	—	8.12	17.26	0.142	97.0	6.89	362.0
1325	—	8.08	17.15	0.138	99.4	6.77	250.5
1330	—	8.09	17.10	0.138	105.7	6.70	174.8
1335	—	8.01	17.07	0.132	107.5	6.64	154.7
1340	—	7.99	17.06	0.132	106.8	6.67	198.2

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Dollar TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for Diesel

Water Sample Collection Field Sheet

Project Name: **Charlotte Airport Rental Car Facilities** Project No: 38941670

Sample ID: Dollar TMW-5

Date/Time Collected: 2/27/15 1430 Personnel: Matthew Stone

Sample Method: Peristaltic Pump/Low flow

SAMPLE MEDIA: **Groundwater**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3VOA	HCl	VOCs + xylenes 602
3 VOA	HCl	VPH
1 Amber	HCl	EPH
1 Amber	None	SVOC + 10 TICs 625

WELL PURGING DATA

Date: 2/27/15

Time Started: 1405

Time Completed: —

Well Depth (ft. BTOC): 18

Depth to Water (ft BTOC): 9.81

Actual Purge (gallons): 0.25 gallons

Purge rate (milliliters/min): —

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1405	9.81	7.42	19.04	0.087	113.7	6.59	518.3
1410	—	6.41	19.15	0.079	145.6	5.14	324.1
1415	—	—	Dry @ 0.25 gallons	—	—	—	—
1420	—						
1425	—						

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Dollar TMW-1	—	—
Pump	—	—	—
Water Quality Meter	—	—	—
Turbidity Meter	—	—	—

GENERAL COMMENTS Sample for Diesel

Well went Dry, wait to recharge, before sampling again.

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities   Project No: 38941670

Sample ID: Dollar TMW-6

Date/Time Collected: 3/2/15   Personnel: ~~Matthew Stone~~

Sample Method: Low Flow / peristaltic   Byron Hill

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOCs 6200B
3 VOA	HCl	VPH
1 Amber	HCl	EPH
1 Amber	None	SVOCs
1 Plastic	HNO_3	Cr/Pb

WELL PURGING DATA

Date: 3/2/15

Time Started: 1035

Time Completed:

Well Depth (ft. BTOC): 18

Depth to Water (ft BTOC): ~~9.46~~ 9.26

Actual Purge (gallons): 0.75 gal

Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1035	9.26	5.91	17.00	0.297	144.0	7.69	859.1
1040	13.95	6.09	17.43	0.313	103.2	2.90	571.8
1045	14.40	6.10	17.65	0.314	92.7	2.84	481.0
1050	14.45	6.09	17.61	0.296	86.3	2.85	361.9
1055	14.30	6.11	16.71	0.287	81.6	2.96	306.8
1100	14.20	6.06	17.01	0.286	83.9	2.89	280.5

Pump battery died short break in flow →

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Dollar TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for Used Oil   Well went Dry while Sampling Let Recharge then took Amber

Sample Time: 1100

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Hertz TMW-1

Date/Time Collected: 2/24/15 Personnel: Matthew Stone

Sample Method: Peristaltic / low flow

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOCs, 6200B
3 VOA	HCl	VPH
2 amber	HCl	EPH
2 amber	None	SVOC + 10 TICs 625
1 plastic	HNO_3	Cr/Pb

WELL PURGING DATA

Date	2/24/15 1030	Well Depth (ft. BTOC)	18
Time Started	0950	Depth to Water (ft BTOC)	8.82
Time Completed	1030	Actual Purge (gallons)	1.0
		Purge rate (milliliters/min)	

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
0950	8.82	5.89	15.50	0.149	110.0	2.26	>1000
0955	—	5.58	15.44	0.142	113.0	1.61	>1000
1000	—	5.44	16.04	0.138	120.7	1.44	753
1005	—	5.35	15.76	0.136	129.5	1.40	560
1010	—	5.29	15.89	0.136	134.3	1.35	559
1015	—	5.27	15.44	0.134	135.7	1.35	453
1020	—	5.27	15.41	0.135	139.8	1.32	444
1025	—	5.27	15.38	0.132	140.4	1.32	451
1030	—	5.28	15.39	0.133	141.2	1.33	431

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Hertz MW-5	—	—
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for Used oil

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Hertz MW-5R

Date/Time Collected: 2/24/15 Personnel: Matthew Stone

Sample Method: Peristaltic / low flow

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOCs 6200B
3 VOA	HCl	VPH
2 amber	HCl	EPH
2 amber	None	SVOC + 10 TICs 625
1 plastic	HNO_3	Cr/Pb

WELL PURGING DATA

Date	2/24/15	Well Depth (ft. BTOC)	14.35
Time Started	1235	Depth to Water (ft BTOC)	9.22
Time Completed	1305	Actual Purge (gallons)	0.75
		Purge rate (milliliters/min)	—

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1235	9.22	5.11	12.83	0.927	197.5	4.77	73.1
1240	9.75	5.05	12.78	0.927	198.2	3.70	61.2
1245	9.94	4.95	12.98	0.913	198.1	3.22	55.7
1250	10.35	4.93	13.36	0.940	195.7	2.78	33.4
1255	10.45	4.91	13.62	0.949	197.9	2.70	31.1
1300	10.48	4.90	13.64	0.950	199.0	2.68	30.2
1305	10.52	4.88	13.65	0.951	199.5	2.69	31.3
2/27/15 Time	0805	0808	0801	0814	0817	0820	
Turb	133	33.2	28.1	22.1	23.7	21.4	

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	Heron H.O.1	18337 (Final)	—
Pump	Peristaltic	4433 (Final)	—
Water Quality Meter	YSI-556	19883 (Final)	2/24/15
Turbidity Meter	HACH-2100Q	025973 (Final)	2/24/15

GENERAL COMMENTS Sample for filtered Cr

Lead bottle replaced, lost on 2/24/15. Resampled 2/27/15 0820

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Hertz MW-11

Date/Time Collected: 2/24/15 1435 Personnel: Matthew Stone

Sample Method: Peristaltic / low flow

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOC + xylenes 602
3 VOA	HCl	VPH
2 amber	HCl	EPH
2 amber	None	cVOCs + 10 TICs

WELL PURGING DATA

Date: 2/24/15

Time Started: 1409

Time Completed: 1435

Well Depth (ft. BTOC): 20.0

Depth to Water (ft BTOC): 11.25

Actual Purge (gallons):

Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1400	11.25	6.02	14.76	0.223	160.4	2.31	64.2
1405	12.25	6.05	15.81	0.220	159.5	2.13	51.8
1410	12.82	6.05	16.80	0.217	155.7	1.55	44.6
1415	13.30	6.04	17.12	0.217	153.9	1.44	34.5
1420	13.39	6.02	16.90	0.216	153.3	1.29	22.4
1425	13.51	6.00	16.88	0.215	150.8	1.22	20.5
1430	13.76	6.02	16.73	0.215	148.5	1.14	18.9
1435	13.89	6.02	16.74	0.216	148.3	1.13	16.4
1440							

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Hertz MW-5		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for medium BF fuels ~~DUP-3 0800 (1200)~~

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities

Project No: 38941670

Sample ID: Hertz MW-11

Date/Time Collected: 3/4/15

Sample Method:

Personnel: ~~Matthew Stone~~ Ryan Hall

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCL	VOCs 6200B
3 VOA	HCL	MADEP VPH
~~1 Amber~~		
2 Amber	NONE	SVOCs 625 + 10 TICS
2 Amber	HCL	MADEP EPH

WELL PURGING DATA

Date	3/4/15
Time Started	1130
Time Completed	1155

Well Depth (ft. BTOC): 20

Depth to Water (ft BTOC):

Actual Purge (gallons):

Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1130	11.06	6.45	18.96	0.219	105.7	3.87	37.35
1135	—	6.11	18.49	0.218	118.5	2.00	26.01
1140	—	5.97	18.38	0.217	125.8	2.18	13.60
1145	—	5.94	18.47	0.218	128.0	1.75	10.84
1150	—	5.94	18.51	0.218	129.0	1.61	3.63
1155	—	5.93	18.60	0.218	130.0	1.69	3.10

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe			
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS

Sample for Hertz-AP

Sample time: 1155

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Payless MW-1

Date/Time Collected: 2/23/15 1515 Personnel: Matthew Stone

Sample Method: Peristaltic / low flow

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOC + xylenes 602
3 VOA	HCl	~~MA~~ VPH
2 Amber	HCl	EPH
2 Amber	None	SVOC + 10 TICs

WELL PURGING DATA

Date	2/23/15 1515	Well Depth (ft. BTOC)	25
Time Started	1450	Depth to Water (ft BTOC)	13.35
Time Completed	1515	Actual Purge (gallons)	1.0
		Purge rate (milliliters/min)	

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1450	13.35	6.52	15.26	0.132	86.5	4.82	18.8
1455	—	6.46	15.71	0.132	65.9	2.12	12.2
1500	—	6.30	16.82	0.135	63.3	1.41	6.04
1505	—	6.27	16.89	0.134	65.1	1.44	5.43
1510	—	6.28	16.88	0.135	68.7	1.46	6.13
1515	~~13.58~~	6.26	16.87	0.135	67.8	1.45	5.02

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe		See Payless MW-1	
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for med/High BP

Water Sample Collection Field Sheet

Project Name: **Charlotte Airport Rental Car Facilities** Project No: 38941670

Sample ID: Payless TMW - 1

Date/Time Collected: 2/23/15 1000 Personnel: Matthew Stone

Sample Method: Peristaltic / low flow

SAMPLE MEDIA: **Groundwater**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOCs 6200B
6 VOA	HCl	VPH LBP + MH BP
2 Amber 1L	HCl	EPH
2 Amber 1L	None	SVOCs + 10 TICs
1 Plastic	HNO_3	Pb
3 VOA	HCl	VOCs via 602 + Xylenes

WELL PURGING DATA

Date: 2/23/15

Time Started: 0935

Time Completed: 1000

Well Depth (ft. BTOC): 25

Depth to Water (ft BTOC): 13.41

Actual Purge (gallons): 0.75

Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
0930	13.41	6.48	15.91	0.136	68.3	2.68	248
0935	—	6.38	15.97	0.134	59.1	1.23	149
0940	—	6.39	16.02	0.133	53.6	1.17	90.2
0945	—	6.22	16.13	0.131	51.0	1.02	72.4
0950	—	6.22	16.22	0.131	56.0	0.93	50.2
0955	—	6.22	16.25	0.130	56.2	0.90	30.2
1000	—	6.20	16.26	0.130	57.2	0.91	10.3

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	Heron H.O.L	18337 (Pine)	—
Pump	Peristaltic	4433 (Pine)	—
Water Quality Meter	YSI-556	19883 (Pine)	2/23/15
Turbidity Meter	HACH 2100Q	025973 (Pine)	2/23/15

GENERAL COMMENTS Sample for light BP & med/High BP Components

Water Sample Collection Field Sheet

Project Name: **Charlotte Airport Rental Car Facilities** Project No: 38941670

Sample ID: Payless TMW-2 1130

Date/Time Collected: 2/23/15 Personnel: Matthew Stone

Sample Method: Peristaltic / low flow

SAMPLE MEDIA: **Groundwater**

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOCs 62000
3 VOA	HCl	VPH
2 amber 1L	HCl	EPH
2 amber 1L	None	SVOCs + 10 TICs
1 plastic	HNO_3	Pb
3 VOA	HCl	VOCs 602 + xylenes

WELL PURGING DATA

Date: 2/23/15

Time Started: 1050

Time Completed: 1130

Well Depth (ft. BTOC): 23

Depth to Water (ft BTOC): 13.70

Actual Purge (gallons): 1.25

Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1050	13.70	6.51	15.75	0.203	7.7	3.03	>1000
1055	—	6.49	15.91	0.213	-11.7	1.06	153
1109	—	6.40	16.57	0.241	-12.5	0.57	110
1105	—	6.35	17.11	0.253	-24.4	0.36	86.5
1110	—	6.32	16.94	0.263	-26.9	0.28	71.1
1115	—	6.32	16.84	0.265	-28.6	0.23	74.2
1120	—	6.30	17.01	0.265	-29.8	0.20	73.5
1125	—	6.30	16.84	0.266	-25.8	0.21	70.1

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Payless TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample For light BP + med/High BP components

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities Project No: 38941670

Sample ID: Pay less TMW-3

Date/Time Collected: 2/23/15 1400 Personnel: Matthew Stone

Sample Method: Peristaltic / low flow

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOC 6200B
3 VOA	HCl	VPH
2 amber	HCl	EPH
2 amber	None	SVOCs + 10 TICs
1 Plastic	HNO_3	Pb
3 VOA	HCl	VOC 602 + xylenes

WELL PURGING DATA

Date: 2/23/15

Time Started: 1315

Time Completed: 1400

Well Depth (ft. BTOC): 23

Depth to Water (ft BTOC): 13.58

Actual Purge (gallons): 1.0

Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1320	13.58	6.55	15.76	0.137	39.6	2.41	992
1325	—	6.37	16.40	0.140	36.0	1.21	824
1330	—	6.40	16.94	0.143	34.0	0.81	506
1335	—	6.32	16.73	0.142	35.0	0.73	482
1340	—	6.28	16.55	0.139	33.0	0.53	476
1345	—	6.25	16.51	0.139	37.0	0.48	327
1350	—	6.24	16.46	0.140	35.6	0.47	256
1355	—	6.23	16.43	0.140	36.2	0.49	262
1400	—	6.24	16.43	0.140	36.5	0.48	243

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Pay less TMW-2		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for light BP & med / High BP components

- Water is very milky, grey color, tried lower speed.

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities
Project No: 38941670
Sample ID: Paylor JMW-4
Date/Time Collected: 2/23/15
Sample Method: Peristaltic / low flow
Personnel: Matthew Stone
SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOC 62008
3 VOA	HCl	VOC
1 plastic	HNO_3	Pb

WELL PURGING DATA

Date: 2/23/15
Time Started: 1540
Time Completed: 1605
Well Depth (ft. BTOC): 23
Depth to Water (ft BTOC): 13.30
Actual Purge (gallons): 1.0 g
Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1540	13.30	6.06	17.96	0.155	85.9	2.04	27.0
1545	—	5.90	18.11	0.154	87.6	0.99	14.1
1550	—	5.84	18.20	0.156	82.1	0.91	10.5
1555	—	5.85	18.16	0.160	73.5	0.75	10.9
1600	—	5.86	18.15	0.157	72.7	0.74	8.76
1605	—	5.85	18.12	0.157	73.3	0.71	5.41

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe		See Paylor JMW-1	
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS

DUP-2/0800 Sample for light BP @200 VOC

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities
Project No: 38941670

Sample ID: National MW-1

Date/Time Collected: 3/4/15

Sample Method: Low-Flow/Peristaltic

Personnel: ~~Matthew Stone~~ Byron Hill

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCL	VOC 6200B
3 VOA	HCL	MADEP VPH
1 plastic	HNO_3	Pb
2 Amber	None	SVOCs 625
2 Amber	HCL	MADEP EPH

WELL PURGING DATA

Date: 3/4/15
Time Started: 0740
Time Completed: 0810

Well Depth (ft. BTOC): 34.2
Depth to Water (ft BTOC): 10.91
Actual Purge (gallons): 1.0 gal
Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
0740	10.91	6.75	18.15	0.239	64.2	2.84	92.76
0745	10.99	6.52	17.22	0.239	81.1	1.15	61.65
0750	11.06	6.38	16.81	0.236	45.9	0.76	36.04
0755	11.09	6.27	17.15	0.239	104.8	0.50	13.49
0800	11.11	6.22	17.66	0.242	103.9	0.50	9.05
0805	11.13	6.12	17.57	0.242	109.8	0.37	7.78
0810	11.15	6.19	17.43	0.242	107.9	0.45	7.55

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	Solinst Dipper TAPE		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS

Sample For Low/Mod Boiling Point Fuels

Sample time: 0810

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities
Project No: 38941670
Sample ID: National TMW-1
Date/Time Collected: 3/3/15
Sample Method: Low Flow Peristaltic
Personnel: Matthew Stone
Byron Hill
SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCl	VOC's 6200B
3 VOA	HCL	MADEP VPH
1 plastic	HNO_3	Pb
2 Amber	None	SVOC's 8270 + 10 TICS
2 Amber	HCL	MADEP EPH

WELL PURGING DATA

Date	3/3/15
Time Started	1020
Time Completed	1045

Well Depth (ft. BTOC)	18.70
Depth to Water (ft BTOC)	11.90
Actual Purge (gallons)	0.25gal
Purge rate (milliliters/min)	

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1020	11.90	6.07	17.19	0.146	64.4	1.56	71000
1025	11.71	5.87	16.87	0.141	69.4	1.45	>1000
1030	11.86	5.55	16.91	0.139	92.9	1.35	>1000
1035	11.90	5.58	16.67	0.144	89.7	1.20	117.0
1040	12.01	5.58	16.86	0.149	89.2	0.44	86.29
1045	12.06	5.53	16.92	0.151	91.1	0.92	131.8

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Dollar TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS

Sample Time: 1045

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities

Project No: 38941670

Sample ID: National TMW-2

Date/Time Collected: 3/2/15

Sample Method: Low Flow / peristaltic

Personnel: ~~Matthew Stone~~ BJ

SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCL	6 cocB
3 VOA	HCL	MADEP VPH
1 plastic	HNO3	P6

WELL PURGING DATA

Date	3/2/15
Time Started	1435
Time Completed	1500

Well Depth (ft. BTOC)	17.80
Depth to Water (ft BTOC)	10.40
Actual Purge (gallons)	0.5 gal
Purge rate (milliliters/min)	

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1435	10.40	6.05	18.97	0.147	92.2	1.43	242.8
1440	10.45	5.03	18.76	0.140	113.1	9.30	77.11
1445	10.50	4.79	18.84	0.140	108.1	0.53	65.65
1450	10.52	4.77	18.89	0.140	103.7	0.93	71.65
1455	10.55	4.74	18.78	0.140	100.2	0.36	89.14
1500	10.60	4.76	18.80	0.138	96.0	0.32	187.6

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Boiler TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS Sample for Low-BP

Sample Time: 1500

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities
Project No: 38941670
Sample ID: National TMW-3
Date/Time Collected: 3/2/15
Sample Method: Low Flow/peristaltic
Personnel: Matthew Stone
Byron Hall
SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCL	6200B
3 VOA	HCL	6200B VOA
1 plastic	HNO_3	16

WELL PURGING DATA

Date: 3/2/15
Time Started: 1530
Time Completed: 1555
Well Depth (ft. BTOC): 20
Depth to Water (ft BTOC): 10.44
Actual Purge (gallons): 1.0 gal
Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
1530	10.44	5.60	19.12	0.361	59.9	1.66	0.12
1535	13.20	5.49	18.78	0.364	39.6	1.66	30.77
1540	13.15	5.54	18.32	0.365	47.0	1.48	151.5
1545	13.20	5.56	18.24	0.367	35.7	1.37	221.5
1550	13.30	5.58	18.23	0.368	28.4	1.34	220.2
1555	13.30	5.59	18.21	0.366	24.0	1.32	224.3

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Dollar TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS

Sample for Low-Bp
Sample Time: 1555

Water Sample Collection Field Sheet

Project Name: Charlotte Airport Rental Car Facilities
Project No: 38941670
Sample ID: National TMW-4
Date/Time Collected: 3/3/15
Sample Method: Low Flow/peristaltic
Personnel: ~~Matthew Stone~~ Byron Hill
SAMPLE MEDIA: Groundwater

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis
3 VOA	HCL	VOCs 6200B
3 VOA	HCL	MADEP VPH
1 Plastic	HNO_3	Pb
2 Amber	None	SVOCs 625 + 10 TICs
2 Amber	HCL	MADEP EPH

WELL PURGING DATA

Date: 3/3/15
Time Started: 0835
Time Completed: 0855

Well Depth (ft. BTOC): 18.70
Depth to Water (ft BTOC): 10.44
Actual Purge (gallons): 0.75 gal
Purge rate (milliliters/min):

FIELD MEASUREMENTS

Time	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	ORP (Mv)	DO (mg/l)	Turbidity (NTUs)
0835	10.44	6.14	17.34	0.427	-13.1	1.11	2.99
0840	10.78	6.07	16.98	0.445	-26.9	0.48	40.78
0845	10.75	6.04	17.03	0.0156	-30.1	0.28	87.20
0850	10.77	6.01	16.98	0.461	-29.9	0.26	139.9
0855	10.8	5.98	16.80	0.460	-28.8	0.18	125.2

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe	See Bailer TMW-1		
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS

Sample Time: 0855

Appendix G.
Well Abandonment Records

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Payless

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 26.6 **N** 80 56 52.1 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-04

6b. Total well depth: 23 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 13 **(ft.)**

6e. Outer casing length (if known): 8 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 15 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Payless

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 26.6 **N** 80 56 52.1 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-03

6b. Total well depth: 23 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 12.8 **(ft.)**

6e. Outer casing length (if known): 8 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 15 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Payless

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 26.6 **N** 80 56 52.1 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-02

6b. Total well depth: 23 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 13.1 **(ft.)**

6e. Outer casing length (if known): 8 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 15 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Payless

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 26.6 **N** 80 56 52.1 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-01

6b. Total well depth: 25 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 12.9 **(ft.)**

6e. Outer casing length (if known): 10 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 15 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): 0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

National

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 31.7 **N** 80 56 49.2 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-04

6b. Total well depth: 19 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 10.4 **(ft.)**

6e. Outer casing length (if known): 9 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): 0.40 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

National

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 31.7 **N** 80 56 49.2 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-03

6b. Total well depth: 20.5 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 10.3 **(ft.)**

6e. Outer casing length (if known): 10.5 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): 0.45 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

National

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 31.7 **N** 80 56 49.2 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-02

6b. Total well depth: 18.5 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 10 **(ft.)**

6e. Outer casing length (if known): 8.5 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): 0.35 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

National

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 31.7 **N** 80 56 49.2 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-01

6b. Total well depth: 19 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 11 **(ft.)**

6e. Outer casing length (if known): 9 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): 0.35 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Hertz

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 32.8 **N** 80 56 55.2 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-01

6b. Total well depth: 17 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 8.5 **(ft.)**

6e. Outer casing length (if known): 7 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): 0.40 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Dollar

Facility/Owner Name

Facility ID# (if applicable)

Air Ramp Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 25.0 **N** 80 56 58.3 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-06

6b. Total well depth: 18 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 9.4 **(ft.)**

6e. Outer casing length (if known): 8 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

~15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Dollar

Facility/Owner Name

Facility ID# (if applicable)

Air Ramp Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 25.0 **N** 80 56 58.3 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-05

6b. Total well depth: 17 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 9.5 **(ft.)**

6e. Outer casing length (if known): 7 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

~15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Dollar

Facility/Owner Name

Facility ID# (if applicable)

Air Ramp Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 25.0 **N** 80 56 58.3 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-04

6b. Total well depth: 18.6 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 9.5 **(ft.)**

6e. Outer casing length (if known): 8.6 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

~15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public
☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)
☐Industrial/Commercial ☐Residential Water Supply (shared)
☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation
☐Aquifer Storage and Recovery ☐Salinity Barrier
☐Aquifer Test ☐Stormwater Drainage
☐Experimental Technology ☐Subsidence Control
☐Geothermal (Closed Loop) ☐Tracer
☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Dollar

Facility/Owner Name

Facility ID# (if applicable)

Air Ramp Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 25.0 **N** 80 56 58.3 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-03

6b. Total well depth: 17 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 9.1 **(ft.)**

6e. Outer casing length (if known): 7 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets
☐ Sand Cement Grout ☐ Dry Clay
☐ Concrete Grout ☐ Drill Cuttings
☐ Specialty Grout ☐ Gravel
☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

~15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public
☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)
☐Industrial/Commercial ☐Residential Water Supply (shared)
☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation
☐Aquifer Storage and Recovery ☐Salinity Barrier
☐Aquifer Test ☐Stormwater Drainage
☐Experimental Technology ☐Subsidence Control
☐Geothermal (Closed Loop) ☐Tracer
☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Dollar

Facility/Owner Name

Facility ID# (if applicable)

Air Ramp Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 25.0 **N** 80 56 58.3 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-02

6b. Total well depth: 19 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 8.3 **(ft.)**

6e. Outer casing length (if known): 9 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets
☐ Sand Cement Grout ☐ Dry Clay
☐ Concrete Grout ☐ Drill Cuttings
☐ Specialty Grout ☐ Gravel
☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

~15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public
☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)
☐Industrial/Commercial ☐Residential Water Supply (shared)
☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation
☐Aquifer Storage and Recovery ☐Salinity Barrier
☐Aquifer Test ☐Stormwater Drainage
☐Experimental Technology ☐Subsidence Control
☐Geothermal (Closed Loop) ☐Tracer
☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Dollar

Facility/Owner Name

Facility ID# (if applicable)

Air Ramp Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 25.0 **N** 80 56 58.3 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-01

6b. Total well depth: 16.4 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 8.4 **(ft.)**

6e. Outer casing length (if known): 6.4 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets
☐ Sand Cement Grout ☐ Dry Clay
☐ Concrete Grout ☐ Drill Cuttings
☐ Specialty Grout ☐ Gravel
☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

~15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Budget

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 23.9 **N** 80 56 49.1 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-06

6b. Total well depth: 22 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 17 **(ft.)**

6e. Outer casing length (if known): 12 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Budget

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 23.9 **N** 80 56 49.1 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-05

6b. Total well depth: 22 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 17.2 **(ft.)**

6e. Outer casing length (if known): 12 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Budget

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 23.9 **N** 80 56 49.1 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-04

6b. Total well depth: 22 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 17.8 **(ft.)**

6e. Outer casing length (if known): 12 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Budget

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 23.9 **N** 80 56 49.1 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-03

6b. Total well depth: 20 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 15.6 **(ft.)**

6e. Outer casing length (if known): 10 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Avis

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 37.3 **N** 80 56 53.2 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-06

6b. Total well depth: 19 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 12.2 **(ft.)**

6e. Outer casing length (if known): 9 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): 0.33 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Avis

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 37.3 **N** 80 56 53.2 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-05

6b. Total well depth: 15 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 12.3 **(ft.)**

6e. Outer casing length (if known): 5 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): 0.25 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

10 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Avis

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 37.3 **N** 80 56 53.2 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-04

6b. Total well depth: 15 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 11.7 **(ft.)**

6e. Outer casing length (if known): 5 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): 0.25 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☐ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

10 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser filled well from bottom to top with neat cement

8. Certification:

Mike Tynan

Digitally signed by Mike Tynan
DN: cn=Mike Tynan, o, ou, email=mat@terrasonicinternational.com, c=US
Date: 2015.04.08 20:35:49 -04'00'

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public
☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)
☐Industrial/Commercial ☐Residential Water Supply (shared)
☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation
☐Aquifer Storage and Recovery ☐Salinity Barrier
☐Aquifer Test ☐Stormwater Drainage
☐Experimental Technology ☐Subsidence Control
☐Geothermal (Closed Loop) ☐Tracer
☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Avis

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 37.3 **N** 80 56 53.2 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-01

6b. Total well depth: 22 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 14 **(ft.)**

6e. Outer casing length (if known): 12 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): 0.25 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets
☐ Sand Cement Grout ☐ Dry Clay
☐ Concrete Grout ☐ Drill Cuttings
☐ Specialty Grout ☐ Gravel
☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Advantage

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 28.7 **N** 80 56 49.7 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-05

6b. Total well depth: 19 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 13.2 **(ft.)**

6e. Outer casing length (if known): 9 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Advantage

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 28.7 **N** 80 56 49.7 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-04

6b. Total well depth: 19.5 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 13.1 **(ft.)**

6e. Outer casing length (if known): 9.5 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Advantage

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 28.7 **N** 80 56 49.7 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-03

6b. Total well depth: 20 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 11.8 **(ft.)**

6e. Outer casing length (if known): 10 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Advantage

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 28.7 **N** 80 56 49.7 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-02

6b. Total well depth: 19 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 11.5 **(ft.)**

6e. Outer casing length (if known): 9 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): <0.5 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

John Allen

Well Contractor Name (or well owner personally abandoning well on his/her property)

4196-B

NC Well Contractor Certification Number

Terra Sonic International

Company Name

2. Well Construction Permit #: _____

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under 7g)

4. Date well(s) abandoned: 3/9/15

5a. Well location:

Advantage

Facility/Owner Name

Facility ID# (if applicable)

Rental Car Rd, Charlotte 28214

Physical Address, City, and Zip

Mecklenburg

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35 13 28.7 **N** 80 56 49.7 **W**

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TW-01

6b. Total well depth: 19 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: 11.5 **(ft.)**

6e. Outer casing length (if known): 9 **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): 10 **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: one

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): 0.33 **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☑ Neat Cement Grout ☐ Bentonite Chips or Pellets

☐ Sand Cement Grout ☐ Dry Clay

☐ Concrete Grout ☐ Drill Cuttings

☐ Specialty Grout ☐ Gravel

☐ Bentonite Slurry ☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

15 lbs portland cement

7g. Provide a brief description of the abandonment procedure:

Removed riser ,filled well from bottom to top with neat cement

8. Certification:

Signature of Certified Well Contractor or Well Owner

4/8/15

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617**

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

**Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636**

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

Appendix H.
Laboratory Analytical Results

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/04/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/20/2015
Prism Work Order: 5020409

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones
President/Project Manager

Reviewed By Robbi A. Jones
President/Project Manager

Data Qualifiers Key Reference:

A	LCS/LCSD result is below the control limits. Analyte not detected in the sample. No further action taken.
Aa	Low CCV recovery.
CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L1	LCS recovery outside of the QC limits. LCSD recovery within the limits. No further action taken.
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

03/04/2015

Prism Work Order: 5020409

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Payless TMW-1	5020409-01	Solid	02/20/15	02/20/15
Payless TMW-2	5020409-02	Solid	02/20/15	02/20/15
Payless TMW-3 (4-6)	5020409-03	Solid	02/20/15	02/20/15
Payless TMW-3 (10-12)	5020409-04	Solid	02/20/15	02/20/15
Payless TMW-4	5020409-05	Solid	02/20/15	02/20/15
Payless B1 (4-6)	5020409-06	Solid	02/20/15	02/20/15
Payless B1 (10-12)	5020409-07	Solid	02/20/15	02/20/15
Hertz TMW-1 (8-10)	5020409-08	Solid	02/20/15	02/20/15
Hertz TMW-1 (2-4)	5020409-09	Solid	02/20/15	02/20/15
Budget TMW-6 (11-13)	5020409-10	Solid	02/20/15	02/20/15
Budget TMW-6 (13-15))	5020409-11	Solid	02/20/15	02/20/15
Trip Blank	5020409-12	Water	02/20/15	02/20/15

Samples were received in good condition at 5.4 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/04/2015

Prism Work Order: 5020409

Prism ID	Client ID	Parameter	Method	Result		Units
5020409-02	Payless TMW-2	Methyl-tert-Butyl Ether	8260B	0.0032	J	mg/kg dry
5020409-06	Payless B1 (4-6)	Diesel Range Organics	*8015C	200		mg/kg dry
5020409-06	Payless B1 (4-6)	Gasoline Range Organics	*8015C	1000		mg/kg dry
5020409-06	Payless B1 (4-6)	1,2,4-Trimethylbenzene	8260B	23		mg/kg dry
5020409-06	Payless B1 (4-6)	1,3,5-Trimethylbenzene	8260B	8.0		mg/kg dry
5020409-06	Payless B1 (4-6)	4-Isopropyltoluene	8260B	0.97		mg/kg dry
5020409-06	Payless B1 (4-6)	Ethylbenzene	8260B	4.4		mg/kg dry
5020409-06	Payless B1 (4-6)	Isopropylbenzene (Cumene)	8260B	2.0		mg/kg dry
5020409-06	Payless B1 (4-6)	m,p-Xylenes	8260B	7.5		mg/kg dry
5020409-06	Payless B1 (4-6)	Naphthalene	8260B	9.3		mg/kg dry
5020409-06	Payless B1 (4-6)	n-Butylbenzene	8260B	5.4		mg/kg dry
5020409-06	Payless B1 (4-6)	n-Propylbenzene	8260B	8.6		mg/kg dry
5020409-06	Payless B1 (4-6)	o-Xylene	8260B	1.4		mg/kg dry
5020409-06	Payless B1 (4-6)	sec-Butylbenzene	8260B	1.6		mg/kg dry
5020409-06	Payless B1 (4-6)	Xylenes, total	8260B	9.0		mg/kg dry
5020409-07	Payless B1 (10-12)	Diesel Range Organics	*8015C	170		mg/kg dry
5020409-07	Payless B1 (10-12)	Gasoline Range Organics	*8015C	540		mg/kg dry
5020409-07	Payless B1 (10-12)	1,2,4-Trimethylbenzene	8260B	11		mg/kg dry
5020409-07	Payless B1 (10-12)	1,3,5-Trimethylbenzene	8260B	3.0		mg/kg dry
5020409-07	Payless B1 (10-12)	4-Isopropyltoluene	8260B	0.35		mg/kg dry
5020409-07	Payless B1 (10-12)	Ethylbenzene	8260B	3.4		mg/kg dry
5020409-07	Payless B1 (10-12)	Isopropylbenzene (Cumene)	8260B	0.53		mg/kg dry
5020409-07	Payless B1 (10-12)	m,p-Xylenes	8260B	11		mg/kg dry
5020409-07	Payless B1 (10-12)	Naphthalene	8260B	2.7		mg/kg dry
5020409-07	Payless B1 (10-12)	n-Butylbenzene	8260B	0.93		mg/kg dry
5020409-07	Payless B1 (10-12)	n-Propylbenzene	8260B	2.0		mg/kg dry
5020409-07	Payless B1 (10-12)	o-Xylene	8260B	3.5		mg/kg dry
5020409-07	Payless B1 (10-12)	sec-Butylbenzene	8260B	0.25		mg/kg dry
5020409-07	Payless B1 (10-12)	Toluene	8260B	0.89		mg/kg dry
5020409-07	Payless B1 (10-12)	Xylenes, total	8260B	14		mg/kg dry
5020409-08	Hertz TMW-1 (8-10)	Chromium	*6010C	28		mg/kg dry
5020409-08	Hertz TMW-1 (8-10)	Lead	*6010C	8.3		mg/kg dry
5020409-08	Hertz TMW-1 (8-10)	Isopropylbenzene (Cumene)	8260B	0.0036	J	mg/kg dry
5020409-09	Hertz TMW-1 (2-4)	C19-C36 Aliphatics	MADEP EPH	4.3	J	mg/kg dry
5020409-09	Hertz TMW-1 (2-4)	Chromium	*6010C	11		mg/kg dry
5020409-09	Hertz TMW-1 (2-4)	Lead	*6010C	6.2		mg/kg dry
5020409-09	Hertz TMW-1 (2-4)	Acetone	8260B	0.13		mg/kg dry
5020409-09	Hertz TMW-1 (2-4)	Isopropylbenzene (Cumene)	8260B	0.014		mg/kg dry
5020409-09	Hertz TMW-1 (2-4)	C9-C12 Aliphatics	MADEP VPH	1.5	J	mg/kg dry
5020409-09	Hertz TMW-1 (2-4)	C9-C10 Aromatics	MADEP VPH	0.34	J	mg/kg dry
5020409-10	Budget TMW-6 (11-13)	Methyl-tert-Butyl Ether	8260B	0.040		mg/kg dry
5020409-10	Budget TMW-6 (11-13)	tert-Amyl Alcohol	8260B	0.030	J	mg/kg dry
5020409-11	Budget TMW-6 (13-15))	Acetone	8260B	0.052		mg/kg dry
5020409-11	Budget TMW-6 (13-15))	Isopropyl Ether	8260B	0.010		mg/kg dry

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/04/2015

Prism Work Order: 5020409

Prism ID	Client ID	Parameter	Method	Result		Units
5020409-11	Budget TMW-6 (13-15))	Methyl-tert-Butyl Ether	8260B	0.10		mg/kg dry
5020409-11	Budget TMW-6 (13-15))	tert-Amyl Alcohol	8260B	0.080	J	mg/kg dry

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-1
Prism Sample ID: 5020409-01
Prism Work Order: 5020409
Time Collected: 02/20/15 11:35
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.5	1.2	1	*8015C	2/27/15 18:20	JMV	P5B0517
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*59 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.2	1.1	50	*8015C	2/25/15 20:04	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*144 %*		*50-137*	*SR*
General Chemistry Parameters									
% Solids	**82.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00046	1	8260B	2/24/15 12:35	MSC	P5B0439
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0055	0.00027	1	8260B	2/24/15 12:35	MSC	P5B0439
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00038	1	8260B	2/24/15 12:35	MSC	P5B0439
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0055	0.00049	1	8260B	2/24/15 12:35	MSC	P5B0439
1,1-Dichloroethane	BRL	mg/kg dry	0.0055	0.00015	1	8260B	2/24/15 12:35	MSC	P5B0439
1,1-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00025	1	8260B	2/24/15 12:35	MSC	P5B0439
1,1-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00030	1	8260B	2/24/15 12:35	MSC	P5B0439
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00032	1	8260B	2/24/15 12:35	MSC	P5B0439
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0055	0.00071	1	8260B	2/24/15 12:35	MSC	P5B0439
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00041	1	8260B	2/24/15 12:35	MSC	P5B0439
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00042	1	8260B	2/24/15 12:35	MSC	P5B0439
1,2-Dibromoethane	BRL	mg/kg dry	0.0055	0.00022	1	8260B	2/24/15 12:35	MSC	P5B0439
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/24/15 12:35	MSC	P5B0439
1,2-Dichloroethane	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/24/15 12:35	MSC	P5B0439
1,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00034	1	8260B	2/24/15 12:35	MSC	P5B0439
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00042	1	8260B	2/24/15 12:35	MSC	P5B0439
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00037	1	8260B	2/24/15 12:35	MSC	P5B0439
1,3-Dichloropropane	BRL	mg/kg dry	0.0055	0.00028	1	8260B	2/24/15 12:35	MSC	P5B0439
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00022	1	8260B	2/24/15 12:35	MSC	P5B0439
2,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/24/15 12:35	MSC	P5B0439
2-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	2/24/15 12:35	MSC	P5B0439
4-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/24/15 12:35	MSC	P5B0439
4-Isopropyltoluene	BRL	mg/kg dry	0.0055	0.00027	1	8260B	2/24/15 12:35	MSC	P5B0439
Acetone	BRL	mg/kg dry	0.055	0.0014	1	8260B	2/24/15 12:35	MSC	P5B0439
Benzene	BRL	mg/kg dry	0.0033	0.00032	1	8260B	2/24/15 12:35	MSC	P5B0439
Bromobenzene	BRL	mg/kg dry	0.0055	0.00046	1	8260B	2/24/15 12:35	MSC	P5B0439
Bromochloromethane	BRL	mg/kg dry	0.0055	0.00031	1	8260B	2/24/15 12:35	MSC	P5B0439
Bromodichloromethane	BRL	mg/kg dry	0.0055	0.00031	1	8260B	2/24/15 12:35	MSC	P5B0439
Bromoform	BRL	mg/kg dry	0.0055	0.00063	1	8260B	2/24/15 12:35	MSC	P5B0439
Bromomethane	BRL	mg/kg dry	0.011	0.00068	1	8260B	2/24/15 12:35	MSC	P5B0439

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-1
Prism Sample ID: 5020409-01
Prism Work Order: 5020409
Time Collected: 02/20/15 11:35
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0055	0.00028	1	8260B	2/24/15 12:35	MSC	P5B0439
Chlorobenzene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	2/24/15 12:35	MSC	P5B0439
Chloroethane	BRL	mg/kg dry	0.011	0.00046	1	8260B	2/24/15 12:35	MSC	P5B0439
Chloroform	BRL	mg/kg dry	0.0055	0.00040	1	8260B	2/24/15 12:35	MSC	P5B0439
Chloromethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B	2/24/15 12:35	MSC	P5B0439
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00024	1	8260B	2/24/15 12:35	MSC	P5B0439
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00019	1	8260B	2/24/15 12:35	MSC	P5B0439
Dibromochloromethane	BRL	mg/kg dry	0.0055	0.00023	1	8260B	2/24/15 12:35	MSC	P5B0439
Dichlorodifluoromethane	BRL	mg/kg dry	0.0055	0.00025	1	8260B	2/24/15 12:35	MSC	P5B0439
Ethanol	BRL	mg/kg dry	0.28	0.11	1	8260B	2/24/15 12:35	MSC	P5B0439
Ethylbenzene	BRL	mg/kg dry	0.0055	0.00021	1	8260B	2/24/15 12:35	MSC	P5B0439
Isopropyl Ether	BRL	mg/kg dry	0.0055	0.00023	1	8260B	2/24/15 12:35	MSC	P5B0439
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/24/15 12:35	MSC	P5B0439
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00051	1	8260B	2/24/15 12:35	MSC	P5B0439
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.055	0.00050	1	8260B	2/24/15 12:35	MSC	P5B0439
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00050	1	8260B	2/24/15 12:35	MSC	P5B0439
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.055	0.00047	1	8260B	2/24/15 12:35	MSC	P5B0439
Methylene Chloride	BRL	mg/kg dry	0.0055	0.00031	1	8260B	2/24/15 12:35	MSC	P5B0439
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00018	1	8260B	2/24/15 12:35	MSC	P5B0439
Naphthalene	BRL	mg/kg dry	0.011	0.00018	1	8260B	2/24/15 12:35	MSC	P5B0439
n-Butylbenzene	BRL	mg/kg dry	0.0055	0.00028	1	8260B	2/24/15 12:35	MSC	P5B0439
n-Propylbenzene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/24/15 12:35	MSC	P5B0439
o-Xylene	BRL	mg/kg dry	0.0055	0.00023	1	8260B	2/24/15 12:35	MSC	P5B0439
sec-Butylbenzene	BRL	mg/kg dry	0.0055	0.00027	1	8260B	2/24/15 12:35	MSC	P5B0439
Styrene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/24/15 12:35	MSC	P5B0439
tert-Amyl Alcohol	BRL	mg/kg dry	0.44	0.0046	1	8260B	2/24/15 12:35	MSC	P5B0439
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00047	1	8260B	2/24/15 12:35	MSC	P5B0439
tert-Butyl Alcohol	BRL	mg/kg dry	0.22	0.00039	1	8260B	2/24/15 12:35	MSC	P5B0439
tert-Butyl Formate	BRL	mg/kg dry	0.44	0.00055	1	8260B	2/24/15 12:35	MSC	P5B0439
tert-Butylbenzene	BRL	mg/kg dry	0.0055	0.00019	1	8260B	2/24/15 12:35	MSC	P5B0439
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00039	1	8260B	2/24/15 12:35	MSC	P5B0439
Tetrachloroethylene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/24/15 12:35	MSC	P5B0439
Toluene	BRL	mg/kg dry	0.0055	0.00032	1	8260B	2/24/15 12:35	MSC	P5B0439
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/24/15 12:35	MSC	P5B0439
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	2/24/15 12:35	MSC	P5B0439
Trichloroethylene	BRL	mg/kg dry	0.0055	0.00036	1	8260B	2/24/15 12:35	MSC	P5B0439
Trichlorofluoromethane	BRL	mg/kg dry	0.0055	0.00036	1	8260B	2/24/15 12:35	MSC	P5B0439
Vinyl acetate	BRL CCV	mg/kg dry	0.028	0.00076	1	8260B	2/24/15 12:35	MSC	P5B0439
Vinyl chloride	BRL	mg/kg dry	0.0055	0.00027	1	8260B	2/24/15 12:35	MSC	P5B0439
Xylenes, total	BRL	mg/kg dry	0.017	0.0010	1	8260B	2/24/15 12:35	MSC	P5B0439

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*91 %*	*70-130*
Dibromofluoromethane	*96 %*	*84-123*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-1
Prism Sample ID: 5020409-01
Prism Work Order: 5020409
Time Collected: 02/20/15 11:35
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8				*95 %*	*76-129*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-2
Prism Sample ID: 5020409-02
Prism Work Order: 5020409
Time Collected: 02/20/15 14:05
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.6	1.2	1	*8015C	2/27/15 18:57	JMV	P5B0517
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*64 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.5	1.2	50	*8015C	2/25/15 20:32	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*107 %*		*50-137*	
General Chemistry Parameters									
% Solids	**81.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00044	1	8260B	2/24/15 12:59	MSC	P5B0439
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0053	0.00026	1	8260B	2/24/15 12:59	MSC	P5B0439
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00036	1	8260B	2/24/15 12:59	MSC	P5B0439
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0053	0.00047	1	8260B	2/24/15 12:59	MSC	P5B0439
1,1-Dichloroethane	BRL	mg/kg dry	0.0053	0.00015	1	8260B	2/24/15 12:59	MSC	P5B0439
1,1-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00023	1	8260B	2/24/15 12:59	MSC	P5B0439
1,1-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00029	1	8260B	2/24/15 12:59	MSC	P5B0439
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00030	1	8260B	2/24/15 12:59	MSC	P5B0439
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0053	0.00068	1	8260B	2/24/15 12:59	MSC	P5B0439
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00039	1	8260B	2/24/15 12:59	MSC	P5B0439
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00041	1	8260B	2/24/15 12:59	MSC	P5B0439
1,2-Dibromoethane	BRL	mg/kg dry	0.0053	0.00021	1	8260B	2/24/15 12:59	MSC	P5B0439
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00025	1	8260B	2/24/15 12:59	MSC	P5B0439
1,2-Dichloroethane	BRL	mg/kg dry	0.0053	0.00032	1	8260B	2/24/15 12:59	MSC	P5B0439
1,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00033	1	8260B	2/24/15 12:59	MSC	P5B0439
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00040	1	8260B	2/24/15 12:59	MSC	P5B0439
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00035	1	8260B	2/24/15 12:59	MSC	P5B0439
1,3-Dichloropropane	BRL	mg/kg dry	0.0053	0.00027	1	8260B	2/24/15 12:59	MSC	P5B0439
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00021	1	8260B	2/24/15 12:59	MSC	P5B0439
2,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00025	1	8260B	2/24/15 12:59	MSC	P5B0439
2-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00027	1	8260B	2/24/15 12:59	MSC	P5B0439
4-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	2/24/15 12:59	MSC	P5B0439
4-Isopropyltoluene	BRL	mg/kg dry	0.0053	0.00026	1	8260B	2/24/15 12:59	MSC	P5B0439
Acetone	BRL	mg/kg dry	0.053	0.0013	1	8260B	2/24/15 12:59	MSC	P5B0439
Benzene	BRL	mg/kg dry	0.0032	0.00031	1	8260B	2/24/15 12:59	MSC	P5B0439
Bromobenzene	BRL	mg/kg dry	0.0053	0.00044	1	8260B	2/24/15 12:59	MSC	P5B0439
Bromochloromethane	BRL	mg/kg dry	0.0053	0.00029	1	8260B	2/24/15 12:59	MSC	P5B0439
Bromodichloromethane	BRL	mg/kg dry	0.0053	0.00030	1	8260B	2/24/15 12:59	MSC	P5B0439
Bromoform	BRL	mg/kg dry	0.0053	0.00060	1	8260B	2/24/15 12:59	MSC	P5B0439
Bromomethane	BRL	mg/kg dry	0.011	0.00065	1	8260B	2/24/15 12:59	MSC	P5B0439

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-2
Prism Sample ID: 5020409-02
Prism Work Order: 5020409
Time Collected: 02/20/15 14:05
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0053	0.00026	1	8260B	2/24/15 12:59	MSC	P5B0439
Chlorobenzene	BRL	mg/kg dry	0.0053	0.00028	1	8260B	2/24/15 12:59	MSC	P5B0439
Chloroethane	BRL	mg/kg dry	0.011	0.00044	1	8260B	2/24/15 12:59	MSC	P5B0439
Chloroform	BRL	mg/kg dry	0.0053	0.00038	1	8260B	2/24/15 12:59	MSC	P5B0439
Chloromethane	BRL	mg/kg dry	0.0053	0.00036	1	8260B	2/24/15 12:59	MSC	P5B0439
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00023	1	8260B	2/24/15 12:59	MSC	P5B0439
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00018	1	8260B	2/24/15 12:59	MSC	P5B0439
Dibromochloromethane	BRL	mg/kg dry	0.0053	0.00022	1	8260B	2/24/15 12:59	MSC	P5B0439
Dichlorodifluoromethane	BRL	mg/kg dry	0.0053	0.00024	1	8260B	2/24/15 12:59	MSC	P5B0439
Ethanol	BRL	mg/kg dry	0.27	0.11	1	8260B	2/24/15 12:59	MSC	P5B0439
Ethylbenzene	BRL	mg/kg dry	0.0053	0.00020	1	8260B	2/24/15 12:59	MSC	P5B0439
Isopropyl Ether	BRL	mg/kg dry	0.0053	0.00022	1	8260B	2/24/15 12:59	MSC	P5B0439
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0053	0.00031	1	8260B	2/24/15 12:59	MSC	P5B0439
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00049	1	8260B	2/24/15 12:59	MSC	P5B0439
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.053	0.00048	1	8260B	2/24/15 12:59	MSC	P5B0439
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00048	1	8260B	2/24/15 12:59	MSC	P5B0439
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.053	0.00045	1	8260B	2/24/15 12:59	MSC	P5B0439
Methylene Chloride	BRL	mg/kg dry	0.0053	0.00030	1	8260B	2/24/15 12:59	MSC	P5B0439
Methyl-tert-Butyl Ether	**0.0032 J**	**mg/kg dry**	**0.011**	**0.00017**	**1**	**8260B**	**2/24/15 12:59**	**MSC**	**P5B0439**
Naphthalene	BRL	mg/kg dry	0.011	0.00017	1	8260B	2/24/15 12:59	MSC	P5B0439
n-Butylbenzene	BRL	mg/kg dry	0.0053	0.00027	1	8260B	2/24/15 12:59	MSC	P5B0439
n-Propylbenzene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	2/24/15 12:59	MSC	P5B0439
o-Xylene	BRL	mg/kg dry	0.0053	0.00022	1	8260B	2/24/15 12:59	MSC	P5B0439
sec-Butylbenzene	BRL	mg/kg dry	0.0053	0.00026	1	8260B	2/24/15 12:59	MSC	P5B0439
Styrene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	2/24/15 12:59	MSC	P5B0439
tert-Amyl Alcohol	BRL	mg/kg dry	0.42	0.0044	1	8260B	2/24/15 12:59	MSC	P5B0439
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00045	1	8260B	2/24/15 12:59	MSC	P5B0439
tert-Butyl Alcohol	BRL	mg/kg dry	0.21	0.00037	1	8260B	2/24/15 12:59	MSC	P5B0439
tert-Butyl Formate	BRL	mg/kg dry	0.42	0.00053	1	8260B	2/24/15 12:59	MSC	P5B0439
tert-Butylbenzene	BRL	mg/kg dry	0.0053	0.00018	1	8260B	2/24/15 12:59	MSC	P5B0439
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00037	1	8260B	2/24/15 12:59	MSC	P5B0439
Tetrachloroethylene	BRL	mg/kg dry	0.0053	0.00025	1	8260B	2/24/15 12:59	MSC	P5B0439
Toluene	BRL	mg/kg dry	0.0053	0.00030	1	8260B	2/24/15 12:59	MSC	P5B0439
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	2/24/15 12:59	MSC	P5B0439
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00028	1	8260B	2/24/15 12:59	MSC	P5B0439
Trichloroethylene	BRL	mg/kg dry	0.0053	0.00034	1	8260B	2/24/15 12:59	MSC	P5B0439
Trichlorofluoromethane	BRL	mg/kg dry	0.0053	0.00034	1	8260B	2/24/15 12:59	MSC	P5B0439
Vinyl acetate	BRL CCV	mg/kg dry	0.027	0.00073	1	8260B	2/24/15 12:59	MSC	P5B0439
Vinyl chloride	BRL	mg/kg dry	0.0053	0.00026	1	8260B	2/24/15 12:59	MSC	P5B0439
Xylenes, total	BRL	mg/kg dry	0.016	0.00099	1	8260B	2/24/15 12:59	MSC	P5B0439

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*93 %*	*70-130*
Dibromofluoromethane	*94 %*	*84-123*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-2
Prism Sample ID: 5020409-02
Prism Work Order: 5020409
Time Collected: 02/20/15 14:05
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8				*97 %*	*76-129*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-3 (4-6)
Prism Sample ID: 5020409-03
Prism Work Order: 5020409
Time Collected: 02/20/15 14:15
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.7	1.3	1	*8015C	2/27/15 19:34	JMV	P5B0517
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*62 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.3	1.1	50	*8015C	2/25/15 21:00	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*95 %*		*50-137*	
General Chemistry Parameters									
% Solids	**80.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0051	0.00042	1	8260B	2/24/15 13:23	MSC	P5B0439
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/24/15 13:23	MSC	P5B0439
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0051	0.00034	1	8260B	2/24/15 13:23	MSC	P5B0439
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0051	0.00045	1	8260B	2/24/15 13:23	MSC	P5B0439
1,1-Dichloroethane	BRL	mg/kg dry	0.0051	0.00014	1	8260B	2/24/15 13:23	MSC	P5B0439
1,1-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00023	1	8260B	2/24/15 13:23	MSC	P5B0439
1,1-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/24/15 13:23	MSC	P5B0439
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/24/15 13:23	MSC	P5B0439
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0051	0.00065	1	8260B	2/24/15 13:23	MSC	P5B0439
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.00038	1	8260B	2/24/15 13:23	MSC	P5B0439
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.00039	1	8260B	2/24/15 13:23	MSC	P5B0439
1,2-Dibromoethane	BRL	mg/kg dry	0.0051	0.00020	1	8260B	2/24/15 13:23	MSC	P5B0439
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/24/15 13:23	MSC	P5B0439
1,2-Dichloroethane	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/24/15 13:23	MSC	P5B0439
1,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.00032	1	8260B	2/24/15 13:23	MSC	P5B0439
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.00038	1	8260B	2/24/15 13:23	MSC	P5B0439
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00034	1	8260B	2/24/15 13:23	MSC	P5B0439
1,3-Dichloropropane	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/24/15 13:23	MSC	P5B0439
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00020	1	8260B	2/24/15 13:23	MSC	P5B0439
2,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/24/15 13:23	MSC	P5B0439
2-Chlorotoluene	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/24/15 13:23	MSC	P5B0439
4-Chlorotoluene	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/24/15 13:23	MSC	P5B0439
4-Isopropyltoluene	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/24/15 13:23	MSC	P5B0439
Acetone	BRL	mg/kg dry	0.051	0.0012	1	8260B	2/24/15 13:23	MSC	P5B0439
Benzene	BRL	mg/kg dry	0.0031	0.00030	1	8260B	2/24/15 13:23	MSC	P5B0439
Bromobenzene	BRL	mg/kg dry	0.0051	0.00042	1	8260B	2/24/15 13:23	MSC	P5B0439
Bromochloromethane	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/24/15 13:23	MSC	P5B0439
Bromodichloromethane	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/24/15 13:23	MSC	P5B0439
Bromoform	BRL	mg/kg dry	0.0051	0.00058	1	8260B	2/24/15 13:23	MSC	P5B0439
Bromomethane	BRL	mg/kg dry	0.010	0.00063	1	8260B	2/24/15 13:23	MSC	P5B0439

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-3 (4-6)
Prism Sample ID: 5020409-03
Prism Work Order: 5020409
Time Collected: 02/20/15 14:15
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/24/15 13:23	MSC	P5B0439
Chlorobenzene	BRL	mg/kg dry	0.0051	0.00027	1	8260B	2/24/15 13:23	MSC	P5B0439
Chloroethane	BRL	mg/kg dry	0.010	0.00042	1	8260B	2/24/15 13:23	MSC	P5B0439
Chloroform	BRL	mg/kg dry	0.0051	0.00037	1	8260B	2/24/15 13:23	MSC	P5B0439
Chloromethane	BRL	mg/kg dry	0.0051	0.00034	1	8260B	2/24/15 13:23	MSC	P5B0439
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00022	1	8260B	2/24/15 13:23	MSC	P5B0439
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00017	1	8260B	2/24/15 13:23	MSC	P5B0439
Dibromochloromethane	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/24/15 13:23	MSC	P5B0439
Dichlorodifluoromethane	BRL	mg/kg dry	0.0051	0.00023	1	8260B	2/24/15 13:23	MSC	P5B0439
Ethanol	BRL	mg/kg dry	0.25	0.10	1	8260B	2/24/15 13:23	MSC	P5B0439
Ethylbenzene	BRL	mg/kg dry	0.0051	0.00020	1	8260B	2/24/15 13:23	MSC	P5B0439
Isopropyl Ether	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/24/15 13:23	MSC	P5B0439
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/24/15 13:23	MSC	P5B0439
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00047	1	8260B	2/24/15 13:23	MSC	P5B0439
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.051	0.00046	1	8260B	2/24/15 13:23	MSC	P5B0439
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00046	1	8260B	2/24/15 13:23	MSC	P5B0439
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.051	0.00043	1	8260B	2/24/15 13:23	MSC	P5B0439
Methylene Chloride	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/24/15 13:23	MSC	P5B0439
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/24/15 13:23	MSC	P5B0439
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/24/15 13:23	MSC	P5B0439
n-Butylbenzene	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/24/15 13:23	MSC	P5B0439
n-Propylbenzene	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/24/15 13:23	MSC	P5B0439
o-Xylene	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/24/15 13:23	MSC	P5B0439
sec-Butylbenzene	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/24/15 13:23	MSC	P5B0439
Styrene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/24/15 13:23	MSC	P5B0439
tert-Amyl Alcohol	BRL	mg/kg dry	0.41	0.0042	1	8260B	2/24/15 13:23	MSC	P5B0439
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.10	0.00043	1	8260B	2/24/15 13:23	MSC	P5B0439
tert-Butyl Alcohol	BRL	mg/kg dry	0.20	0.00036	1	8260B	2/24/15 13:23	MSC	P5B0439
tert-Butyl Formate	BRL	mg/kg dry	0.41	0.00051	1	8260B	2/24/15 13:23	MSC	P5B0439
tert-Butylbenzene	BRL	mg/kg dry	0.0051	0.00017	1	8260B	2/24/15 13:23	MSC	P5B0439
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.10	0.00036	1	8260B	2/24/15 13:23	MSC	P5B0439
Tetrachloroethylene	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/24/15 13:23	MSC	P5B0439
Toluene	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/24/15 13:23	MSC	P5B0439
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/24/15 13:23	MSC	P5B0439
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00027	1	8260B	2/24/15 13:23	MSC	P5B0439
Trichloroethylene	BRL	mg/kg dry	0.0051	0.00033	1	8260B	2/24/15 13:23	MSC	P5B0439
Trichlorofluoromethane	BRL	mg/kg dry	0.0051	0.00033	1	8260B	2/24/15 13:23	MSC	P5B0439
Vinyl acetate	BRL CCV	mg/kg dry	0.025	0.00070	1	8260B	2/24/15 13:23	MSC	P5B0439
Vinyl chloride	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/24/15 13:23	MSC	P5B0439
Xylenes, total	BRL	mg/kg dry	0.015	0.00095	1	8260B	2/24/15 13:23	MSC	P5B0439

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*70-130*
Dibromofluoromethane	*103 %*	*84-123*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-3 (4-6)
Prism Sample ID: 5020409-03
Prism Work Order: 5020409
Time Collected: 02/20/15 14:15
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8				*105 %*	*76-129*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-3 (10-12)
Prism Sample ID: 5020409-04
Prism Work Order: 5020409
Time Collected: 02/20/15 14:20
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.5	1.2	1	*8015C	2/27/15 20:11	JMV	P5B0517
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*63 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.8	1.0	50	*8015C	2/25/15 21:28	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*135 %*		*50-137*	
General Chemistry Parameters									
% Solids	**82.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00041	1	8260B	2/24/15 13:47	MSC	P5B0439
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0050	0.00024	1	8260B	2/24/15 13:47	MSC	P5B0439
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00034	1	8260B	2/24/15 13:47	MSC	P5B0439
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0050	0.00044	1	8260B	2/24/15 13:47	MSC	P5B0439
1,1-Dichloroethane	BRL	mg/kg dry	0.0050	0.00014	1	8260B	2/24/15 13:47	MSC	P5B0439
1,1-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00022	1	8260B	2/24/15 13:47	MSC	P5B0439
1,1-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00027	1	8260B	2/24/15 13:47	MSC	P5B0439
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.00028	1	8260B	2/24/15 13:47	MSC	P5B0439
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0050	0.00063	1	8260B	2/24/15 13:47	MSC	P5B0439
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.00037	1	8260B	2/24/15 13:47	MSC	P5B0439
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.00038	1	8260B	2/24/15 13:47	MSC	P5B0439
1,2-Dibromoethane	BRL	mg/kg dry	0.0050	0.00020	1	8260B	2/24/15 13:47	MSC	P5B0439
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00023	1	8260B	2/24/15 13:47	MSC	P5B0439
1,2-Dichloroethane	BRL	mg/kg dry	0.0050	0.00030	1	8260B	2/24/15 13:47	MSC	P5B0439
1,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00031	1	8260B	2/24/15 13:47	MSC	P5B0439
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.00038	1	8260B	2/24/15 13:47	MSC	P5B0439
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00033	1	8260B	2/24/15 13:47	MSC	P5B0439
1,3-Dichloropropane	BRL	mg/kg dry	0.0050	0.00025	1	8260B	2/24/15 13:47	MSC	P5B0439
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00020	1	8260B	2/24/15 13:47	MSC	P5B0439
2,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00024	1	8260B	2/24/15 13:47	MSC	P5B0439
2-Chlorotoluene	BRL	mg/kg dry	0.0050	0.00026	1	8260B	2/24/15 13:47	MSC	P5B0439
4-Chlorotoluene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	2/24/15 13:47	MSC	P5B0439
4-Isopropyltoluene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	2/24/15 13:47	MSC	P5B0439
Acetone	BRL	mg/kg dry	0.050	0.0012	1	8260B	2/24/15 13:47	MSC	P5B0439
Benzene	BRL	mg/kg dry	0.0030	0.00029	1	8260B	2/24/15 13:47	MSC	P5B0439
Bromobenzene	BRL	mg/kg dry	0.0050	0.00041	1	8260B	2/24/15 13:47	MSC	P5B0439
Bromochloromethane	BRL	mg/kg dry	0.0050	0.00027	1	8260B	2/24/15 13:47	MSC	P5B0439
Bromodichloromethane	BRL	mg/kg dry	0.0050	0.00028	1	8260B	2/24/15 13:47	MSC	P5B0439
Bromoform	BRL	mg/kg dry	0.0050	0.00057	1	8260B	2/24/15 13:47	MSC	P5B0439
Bromomethane	BRL	mg/kg dry	0.010	0.00061	1	8260B	2/24/15 13:47	MSC	P5B0439

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-3 (10-12)
Prism Sample ID: 5020409-04
Prism Work Order: 5020409
Time Collected: 02/20/15 14:20
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0050	0.00025	1	8260B	2/24/15 13:47	MSC	P5B0439
Chlorobenzene	BRL	mg/kg dry	0.0050	0.00026	1	8260B	2/24/15 13:47	MSC	P5B0439
Chloroethane	BRL	mg/kg dry	0.010	0.00041	1	8260B	2/24/15 13:47	MSC	P5B0439
Chloroform	BRL	mg/kg dry	0.0050	0.00036	1	8260B	2/24/15 13:47	MSC	P5B0439
Chloromethane	BRL	mg/kg dry	0.0050	0.00033	1	8260B	2/24/15 13:47	MSC	P5B0439
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00021	1	8260B	2/24/15 13:47	MSC	P5B0439
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00017	1	8260B	2/24/15 13:47	MSC	P5B0439
Dibromochloromethane	BRL	mg/kg dry	0.0050	0.00021	1	8260B	2/24/15 13:47	MSC	P5B0439
Dichlorodifluoromethane	BRL	mg/kg dry	0.0050	0.00023	1	8260B	2/24/15 13:47	MSC	P5B0439
Ethanol	BRL	mg/kg dry	0.25	0.10	1	8260B	2/24/15 13:47	MSC	P5B0439
Ethylbenzene	BRL	mg/kg dry	0.0050	0.00019	1	8260B	2/24/15 13:47	MSC	P5B0439
Isopropyl Ether	BRL	mg/kg dry	0.0050	0.00020	1	8260B	2/24/15 13:47	MSC	P5B0439
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0050	0.00029	1	8260B	2/24/15 13:47	MSC	P5B0439
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00046	1	8260B	2/24/15 13:47	MSC	P5B0439
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.050	0.00045	1	8260B	2/24/15 13:47	MSC	P5B0439
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00045	1	8260B	2/24/15 13:47	MSC	P5B0439
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.050	0.00042	1	8260B	2/24/15 13:47	MSC	P5B0439
Methylene Chloride	BRL	mg/kg dry	0.0050	0.00028	1	8260B	2/24/15 13:47	MSC	P5B0439
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/24/15 13:47	MSC	P5B0439
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/24/15 13:47	MSC	P5B0439
n-Butylbenzene	BRL	mg/kg dry	0.0050	0.00025	1	8260B	2/24/15 13:47	MSC	P5B0439
n-Propylbenzene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	2/24/15 13:47	MSC	P5B0439
o-Xylene	BRL	mg/kg dry	0.0050	0.00020	1	8260B	2/24/15 13:47	MSC	P5B0439
sec-Butylbenzene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	2/24/15 13:47	MSC	P5B0439
Styrene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	2/24/15 13:47	MSC	P5B0439
tert-Amyl Alcohol	BRL	mg/kg dry	0.40	0.0041	1	8260B	2/24/15 13:47	MSC	P5B0439
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.10	0.00042	1	8260B	2/24/15 13:47	MSC	P5B0439
tert-Butyl Alcohol	BRL	mg/kg dry	0.20	0.00035	1	8260B	2/24/15 13:47	MSC	P5B0439
tert-Butyl Formate	BRL	mg/kg dry	0.40	0.00050	1	8260B	2/24/15 13:47	MSC	P5B0439
tert-Butylbenzene	BRL	mg/kg dry	0.0050	0.00017	1	8260B	2/24/15 13:47	MSC	P5B0439
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.10	0.00035	1	8260B	2/24/15 13:47	MSC	P5B0439
Tetrachloroethylene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	2/24/15 13:47	MSC	P5B0439
Toluene	BRL	mg/kg dry	0.0050	0.00029	1	8260B	2/24/15 13:47	MSC	P5B0439
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	2/24/15 13:47	MSC	P5B0439
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00026	1	8260B	2/24/15 13:47	MSC	P5B0439
Trichloroethylene	BRL	mg/kg dry	0.0050	0.00032	1	8260B	2/24/15 13:47	MSC	P5B0439
Trichlorofluoromethane	BRL	mg/kg dry	0.0050	0.00032	1	8260B	2/24/15 13:47	MSC	P5B0439
Vinyl acetate	BRL CCV	mg/kg dry	0.025	0.00068	1	8260B	2/24/15 13:47	MSC	P5B0439
Vinyl chloride	BRL	mg/kg dry	0.0050	0.00024	1	8260B	2/24/15 13:47	MSC	P5B0439
Xylenes, total	BRL	mg/kg dry	0.015	0.00093	1	8260B	2/24/15 13:47	MSC	P5B0439

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*98 %*	*70-130*
Dibromofluoromethane	*101 %*	*84-123*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-3 (10-12)
Prism Sample ID: 5020409-04
Prism Work Order: 5020409
Time Collected: 02/20/15 14:20
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8				*101 %*	*76-129*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-4
Prism Sample ID: 5020409-05
Prism Work Order: 5020409
Time Collected: 02/20/15 14:10
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.8	1.0	50	*8015C	2/25/15 23:49	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*116 %*		*50-137*	
General Chemistry Parameters									
% Solids	**77.4**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0051	0.00042	1	8260B	2/24/15 14:11	MSC	P5B0439
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/24/15 14:11	MSC	P5B0439
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0051	0.00035	1	8260B	2/24/15 14:11	MSC	P5B0439
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0051	0.00046	1	8260B	2/24/15 14:11	MSC	P5B0439
1,1-Dichloroethane	BRL	mg/kg dry	0.0051	0.00014	1	8260B	2/24/15 14:11	MSC	P5B0439
1,1-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00023	1	8260B	2/24/15 14:11	MSC	P5B0439
1,1-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/24/15 14:11	MSC	P5B0439
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/24/15 14:11	MSC	P5B0439
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0051	0.00066	1	8260B	2/24/15 14:11	MSC	P5B0439
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.00038	1	8260B	2/24/15 14:11	MSC	P5B0439
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.00039	1	8260B	2/24/15 14:11	MSC	P5B0439
1,2-Dibromoethane	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/24/15 14:11	MSC	P5B0439
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/24/15 14:11	MSC	P5B0439
1,2-Dichloroethane	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/24/15 14:11	MSC	P5B0439
1,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.00032	1	8260B	2/24/15 14:11	MSC	P5B0439
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.00039	1	8260B	2/24/15 14:11	MSC	P5B0439
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00034	1	8260B	2/24/15 14:11	MSC	P5B0439
1,3-Dichloropropane	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/24/15 14:11	MSC	P5B0439
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00020	1	8260B	2/24/15 14:11	MSC	P5B0439
2,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/24/15 14:11	MSC	P5B0439
2-Chlorotoluene	BRL	mg/kg dry	0.0051	0.00027	1	8260B	2/24/15 14:11	MSC	P5B0439
4-Chlorotoluene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/24/15 14:11	MSC	P5B0439
4-Isopropyltoluene	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/24/15 14:11	MSC	P5B0439
Acetone	BRL	mg/kg dry	0.051	0.0013	1	8260B	2/24/15 14:11	MSC	P5B0439
Benzene	BRL	mg/kg dry	0.0031	0.00030	1	8260B	2/24/15 14:11	MSC	P5B0439
Bromobenzene	BRL	mg/kg dry	0.0051	0.00043	1	8260B	2/24/15 14:11	MSC	P5B0439
Bromochloromethane	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/24/15 14:11	MSC	P5B0439
Bromodichloromethane	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/24/15 14:11	MSC	P5B0439
Bromoform	BRL	mg/kg dry	0.0051	0.00058	1	8260B	2/24/15 14:11	MSC	P5B0439
Bromomethane	BRL	mg/kg dry	0.010	0.00063	1	8260B	2/24/15 14:11	MSC	P5B0439
Carbon Tetrachloride	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/24/15 14:11	MSC	P5B0439
Chlorobenzene	BRL	mg/kg dry	0.0051	0.00027	1	8260B	2/24/15 14:11	MSC	P5B0439
Chloroethane	BRL	mg/kg dry	0.010	0.00043	1	8260B	2/24/15 14:11	MSC	P5B0439
Chloroform	BRL	mg/kg dry	0.0051	0.00037	1	8260B	2/24/15 14:11	MSC	P5B0439
Chloromethane	BRL	mg/kg dry	0.0051	0.00035	1	8260B	2/24/15 14:11	MSC	P5B0439

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless TMW-4
Prism Sample ID: 5020409-05
Prism Work Order: 5020409
Time Collected: 02/20/15 14:10
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00022	1	8260B	2/24/15 14:11	MSC	P5B0439
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00017	1	8260B	2/24/15 14:11	MSC	P5B0439
Dibromochloromethane	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/24/15 14:11	MSC	P5B0439
Dichlorodifluoromethane	BRL	mg/kg dry	0.0051	0.00023	1	8260B	2/24/15 14:11	MSC	P5B0439
Ethanol	BRL	mg/kg dry	0.26	0.10	1	8260B	2/24/15 14:11	MSC	P5B0439
Ethylbenzene	BRL	mg/kg dry	0.0051	0.00020	1	8260B	2/24/15 14:11	MSC	P5B0439
Isopropyl Ether	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/24/15 14:11	MSC	P5B0439
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/24/15 14:11	MSC	P5B0439
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00047	1	8260B	2/24/15 14:11	MSC	P5B0439
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.051	0.00046	1	8260B	2/24/15 14:11	MSC	P5B0439
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00046	1	8260B	2/24/15 14:11	MSC	P5B0439
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.051	0.00044	1	8260B	2/24/15 14:11	MSC	P5B0439
Methylene Chloride	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/24/15 14:11	MSC	P5B0439
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/24/15 14:11	MSC	P5B0439
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/24/15 14:11	MSC	P5B0439
n-Butylbenzene	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/24/15 14:11	MSC	P5B0439
n-Propylbenzene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/24/15 14:11	MSC	P5B0439
o-Xylene	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/24/15 14:11	MSC	P5B0439
sec-Butylbenzene	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/24/15 14:11	MSC	P5B0439
Styrene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/24/15 14:11	MSC	P5B0439
tert-Amyl Alcohol	BRL	mg/kg dry	0.41	0.0043	1	8260B	2/24/15 14:11	MSC	P5B0439
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.10	0.00044	1	8260B	2/24/15 14:11	MSC	P5B0439
tert-Butyl Alcohol	BRL	mg/kg dry	0.21	0.00036	1	8260B	2/24/15 14:11	MSC	P5B0439
tert-Butyl Formate	BRL	mg/kg dry	0.41	0.00051	1	8260B	2/24/15 14:11	MSC	P5B0439
tert-Butylbenzene	BRL	mg/kg dry	0.0051	0.00017	1	8260B	2/24/15 14:11	MSC	P5B0439
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.10	0.00036	1	8260B	2/24/15 14:11	MSC	P5B0439
Tetrachloroethylene	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/24/15 14:11	MSC	P5B0439
Toluene	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/24/15 14:11	MSC	P5B0439
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/24/15 14:11	MSC	P5B0439
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00027	1	8260B	2/24/15 14:11	MSC	P5B0439
Trichloroethylene	BRL	mg/kg dry	0.0051	0.00033	1	8260B	2/24/15 14:11	MSC	P5B0439
Trichlorofluoromethane	BRL	mg/kg dry	0.0051	0.00033	1	8260B	2/24/15 14:11	MSC	P5B0439
Vinyl acetate	BRL CCV	mg/kg dry	0.026	0.00070	1	8260B	2/24/15 14:11	MSC	P5B0439
Vinyl chloride	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/24/15 14:11	MSC	P5B0439
Xylenes, total	BRL	mg/kg dry	0.015	0.00096	1	8260B	2/24/15 14:11	MSC	P5B0439

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*97 %*	*70-130*
Dibromofluoromethane	*99 %*	*84-123*
Toluene-d8	*101 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless B1 (4-6)
Prism Sample ID: 5020409-06
Prism Work Order: 5020409
Time Collected: 02/20/15 14:25
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**200**	**mg/kg dry**	**8.4**	**1.2**	**1**	***8015C**	**2/27/15 20:47**	**JMV**	**P5B0517**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*70 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	**1000**	**mg/kg dry**	**27**	**5.7**	**250**	***8015C**	**2/26/15 6:52**	**ANG**	**P5B0442**
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*110 %*		*50-137*	
General Chemistry Parameters									
% Solids	**83.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS (Medium Level)									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	3.0	0.77	500	8260B	2/24/15 18:40	MSC	P5B0458
1,1,1-Trichloroethane	BRL	mg/kg dry	0.30	0.071	50	8260B	2/24/15 18:03	MSC	P5B0458
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.30	0.059	50	8260B	2/24/15 18:03	MSC	P5B0458
1,1,2-Trichloroethane	BRL	mg/kg dry	0.30	0.074	50	8260B	2/24/15 18:03	MSC	P5B0458
1,1-Dichloroethane	BRL	mg/kg dry	0.30	0.081	50	8260B	2/24/15 18:03	MSC	P5B0458
1,1-Dichloroethylene	BRL	mg/kg dry	0.30	0.088	50	8260B	2/24/15 18:03	MSC	P5B0458
1,1-Dichloropropylene	BRL	mg/kg dry	0.30	0.069	50	8260B	2/24/15 18:03	MSC	P5B0458
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.61	0.072	50	8260B	2/24/15 18:03	MSC	P5B0458
1,2,3-Trichloropropane	BRL	mg/kg dry	0.30	0.11	50	8260B	2/24/15 18:03	MSC	P5B0458
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.61	0.066	50	8260B	2/24/15 18:03	MSC	P5B0458
1,2,4-Trimethylbenzene	**23**	**mg/kg dry**	**3.0**	**0.67**	**500**	**8260B**	**2/24/15 18:40**	**MSC**	**P5B0458**
1,2-Dibromoethane	BRL	mg/kg dry	0.30	0.068	50	8260B	2/24/15 18:03	MSC	P5B0458
1,2-Dichlorobenzene	BRL	mg/kg dry	0.30	0.067	50	8260B	2/24/15 18:03	MSC	P5B0458
1,2-Dichloroethane	BRL	mg/kg dry	0.30	0.066	50	8260B	2/24/15 18:03	MSC	P5B0458
1,2-Dichloropropane	BRL	mg/kg dry	0.30	0.061	50	8260B	2/24/15 18:03	MSC	P5B0458
1,3,5-Trimethylbenzene	**8.0**	**mg/kg dry**	**3.0**	**0.75**	**500**	**8260B**	**2/24/15 18:40**	**MSC**	**P5B0458**
1,3-Dichlorobenzene	BRL	mg/kg dry	0.30	0.060	50	8260B	2/24/15 18:03	MSC	P5B0458
1,3-Dichloropropane	BRL	mg/kg dry	0.30	0.073	50	8260B	2/24/15 18:03	MSC	P5B0458
1,4-Dichlorobenzene	BRL	mg/kg dry	0.30	0.080	50	8260B	2/24/15 18:03	MSC	P5B0458
2,2-Dichloropropane	BRL	mg/kg dry	0.30	0.069	50	8260B	2/24/15 18:03	MSC	P5B0458
2-Chlorotoluene	BRL	mg/kg dry	0.30	0.083	50	8260B	2/24/15 18:03	MSC	P5B0458
4-Chlorotoluene	BRL	mg/kg dry	0.30	0.071	50	8260B	2/24/15 18:03	MSC	P5B0458
4-Isopropyltoluene	**0.97**	**mg/kg dry**	**0.30**	**0.077**	**50**	**8260B**	**2/24/15 18:03**	**MSC**	**P5B0458**
Acetone	BRL	mg/kg dry	1.2	0.23	50	8260B	2/24/15 18:03	MSC	P5B0458
Benzene	BRL	mg/kg dry	0.30	0.068	50	8260B	2/24/15 18:03	MSC	P5B0458
Bromobenzene	BRL	mg/kg dry	0.30	0.072	50	8260B	2/24/15 18:03	MSC	P5B0458
Bromochloromethane	BRL	mg/kg dry	0.30	0.080	50	8260B	2/24/15 18:03	MSC	P5B0458
Bromodichloromethane	BRL	mg/kg dry	0.30	0.069	50	8260B	2/24/15 18:03	MSC	P5B0458
Bromoform	BRL	mg/kg dry	0.30	0.082	50	8260B	2/24/15 18:03	MSC	P5B0458
Bromomethane	BRL	mg/kg dry	0.61	0.080	50	8260B	2/24/15 18:03	MSC	P5B0458

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless B1 (4-6)
Prism Sample ID: 5020409-06
Prism Work Order: 5020409
Time Collected: 02/20/15 14:25
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.30	0.074	50	8260B	2/24/15 18:03	MSC	P5B0458
Chlorobenzene	BRL	mg/kg dry	0.30	0.062	50	8260B	2/24/15 18:03	MSC	P5B0458
Chloroethane	BRL	mg/kg dry	0.61	0.063	50	8260B	2/24/15 18:03	MSC	P5B0458
Chloroform	BRL	mg/kg dry	0.30	0.071	50	8260B	2/24/15 18:03	MSC	P5B0458
Chloromethane	BRL	mg/kg dry	0.61	0.068	50	8260B	2/24/15 18:03	MSC	P5B0458
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.30	0.064	50	8260B	2/24/15 18:03	MSC	P5B0458
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.30	0.067	50	8260B	2/24/15 18:03	MSC	P5B0458
Dibromochloromethane	BRL	mg/kg dry	0.30	0.065	50	8260B	2/24/15 18:03	MSC	P5B0458
Dichlorodifluoromethane	BRL	mg/kg dry	0.61	0.079	50	8260B	2/24/15 18:03	MSC	P5B0458
Ethanol	BRL	mg/kg dry	15	0.61	50	8260B	2/24/15 18:03	MSC	P5B0458
Ethylbenzene	**4.4**	**mg/kg dry**	**0.30**	**0.069**	**50**	**8260B**	**2/24/15 18:03**	**MSC**	**P5B0458**
Isopropyl Ether	BRL	mg/kg dry	0.30	0.064	50	8260B	2/24/15 18:03	MSC	P5B0458
Isopropylbenzene (Cumene)	**2.0**	**mg/kg dry**	**0.30**	**0.071**	**50**	**8260B**	**2/24/15 18:03**	**MSC**	**P5B0458**
m,p-Xylenes	**7.5**	**mg/kg dry**	**0.61**	**0.15**	**50**	**8260B**	**2/24/15 18:03**	**MSC**	**P5B0458**
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	1.2	0.069	50	8260B	2/24/15 18:03	MSC	P5B0458
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	1.2	0.050	50	8260B	2/24/15 18:03	MSC	P5B0458
Methyl Isobutyl Ketone	BRL	mg/kg dry	1.2	0.053	50	8260B	2/24/15 18:03	MSC	P5B0458
Methylene Chloride	BRL	mg/kg dry	0.30	0.066	50	8260B	2/24/15 18:03	MSC	P5B0458
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.30	0.064	50	8260B	2/24/15 18:03	MSC	P5B0458
Naphthalene	**9.3**	**mg/kg dry**	**6.1**	**0.46**	**500**	**8260B**	**2/24/15 18:40**	**MSC**	**P5B0458**
n-Butylbenzene	**5.4**	**mg/kg dry**	**0.30**	**0.061**	**50**	**8260B**	**2/24/15 18:03**	**MSC**	**P5B0458**
n-Propylbenzene	**8.6**	**mg/kg dry**	**3.0**	**0.72**	**500**	**8260B**	**2/24/15 18:40**	**MSC**	**P5B0458**
o-Xylene	**1.4**	**mg/kg dry**	**0.30**	**0.067**	**50**	**8260B**	**2/24/15 18:03**	**MSC**	**P5B0458**
sec-Butylbenzene	**1.6**	**mg/kg dry**	**0.30**	**0.076**	**50**	**8260B**	**2/24/15 18:03**	**MSC**	**P5B0458**
Styrene	BRL	mg/kg dry	0.30	0.067	50	8260B	2/24/15 18:03	MSC	P5B0458
tert-Amyl Alcohol	BRL LH	mg/kg dry	240	2.5	500	8260B	2/24/15 18:40	MSC	P5B0458
tert-Amyl Methyl Ether	BRL	mg/kg dry	61	0.26	500	8260B	2/24/15 18:40	MSC	P5B0458
tert-Butyl Alcohol	BRL	mg/kg dry	120	0.21	500	8260B	2/24/15 18:40	MSC	P5B0458
tert-Butyl Formate	BRL A	mg/kg dry	240	0.30	500	8260B	2/24/15 18:40	MSC	P5B0458
tert-Butylbenzene	BRL	mg/kg dry	0.30	0.071	50	8260B	2/24/15 18:03	MSC	P5B0458
tert-Butyl Ethyl Ether	BRL	mg/kg dry	61	0.21	500	8260B	2/24/15 18:40	MSC	P5B0458
Tetrachloroethylene	BRL	mg/kg dry	0.30	0.065	50	8260B	2/24/15 18:03	MSC	P5B0458
Toluene	BRL	mg/kg dry	0.30	0.065	50	8260B	2/24/15 18:03	MSC	P5B0458
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.30	0.070	50	8260B	2/24/15 18:03	MSC	P5B0458
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.30	0.065	50	8260B	2/24/15 18:03	MSC	P5B0458
Trichloroethylene	BRL	mg/kg dry	0.30	0.066	50	8260B	2/24/15 18:03	MSC	P5B0458
Trichlorofluoromethane	BRL	mg/kg dry	0.61	0.087	50	8260B	2/24/15 18:03	MSC	P5B0458
Vinyl acetate	BRL	mg/kg dry	1.2	0.051	50	8260B	2/24/15 18:03	MSC	P5B0458
Vinyl chloride	BRL	mg/kg dry	0.61	0.085	50	8260B	2/24/15 18:03	MSC	P5B0458
Xylenes, total	**9.0**	**mg/kg dry**	**0.91**	**0.21**	**50**	**8260B**	**2/24/15 18:03**	**MSC**	**P5B0458**

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*144 %*	*70-130*	*SR*
Dibromofluoromethane	*121 %*	*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless B1 (4-6)
Prism Sample ID: 5020409-06
Prism Work Order: 5020409
Time Collected: 02/20/15 14:25
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8			*134 %*		*70-130*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless B1 (10-12)
Prism Sample ID: 5020409-07
Prism Work Order: 5020409
Time Collected: 02/20/15 14:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**170**	**mg/kg dry**	**8.7**	**1.3**	**1**	***8015C**	**2/27/15 21:24**	**JMV**	**P5B0517**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*77 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	**540**	**mg/kg dry**	**25**	**5.3**	**250**	***8015C**	**2/26/15 7:20**	**ANG**	**P5B0442**
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*110 %*		*50-137*	
General Chemistry Parameters									
% Solids	**80.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS (Medium Level)									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	2.3	0.57	500	8260B	2/24/15 16:49	MSC	P5B0458
1,1,1-Trichloroethane	BRL	mg/kg dry	0.23	0.053	50	8260B	2/24/15 16:12	MSC	P5B0458
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.23	0.044	50	8260B	2/24/15 16:12	MSC	P5B0458
1,1,2-Trichloroethane	BRL	mg/kg dry	0.23	0.055	50	8260B	2/24/15 16:12	MSC	P5B0458
1,1-Dichloroethane	BRL	mg/kg dry	0.23	0.060	50	8260B	2/24/15 16:12	MSC	P5B0458
1,1-Dichloroethylene	BRL	mg/kg dry	0.23	0.065	50	8260B	2/24/15 16:12	MSC	P5B0458
1,1-Dichloropropylene	BRL	mg/kg dry	0.23	0.051	50	8260B	2/24/15 16:12	MSC	P5B0458
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.45	0.053	50	8260B	2/24/15 16:12	MSC	P5B0458
1,2,3-Trichloropropane	BRL	mg/kg dry	0.23	0.079	50	8260B	2/24/15 16:12	MSC	P5B0458
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.45	0.049	50	8260B	2/24/15 16:12	MSC	P5B0458
1,2,4-Trimethylbenzene	**11**	**mg/kg dry**	**2.3**	**0.50**	**500**	**8260B**	**2/24/15 16:49**	**MSC**	**P5B0458**
1,2-Dibromoethane	BRL	mg/kg dry	0.23	0.051	50	8260B	2/24/15 16:12	MSC	P5B0458
1,2-Dichlorobenzene	BRL	mg/kg dry	0.23	0.050	50	8260B	2/24/15 16:12	MSC	P5B0458
1,2-Dichloroethane	BRL	mg/kg dry	0.23	0.049	50	8260B	2/24/15 16:12	MSC	P5B0458
1,2-Dichloropropane	BRL	mg/kg dry	0.23	0.045	50	8260B	2/24/15 16:12	MSC	P5B0458
1,3,5-Trimethylbenzene	**3.0**	**mg/kg dry**	**0.23**	**0.055**	**50**	**8260B**	**2/24/15 16:12**	**MSC**	**P5B0458**
1,3-Dichlorobenzene	BRL	mg/kg dry	0.23	0.044	50	8260B	2/24/15 16:12	MSC	P5B0458
1,3-Dichloropropane	BRL	mg/kg dry	0.23	0.054	50	8260B	2/24/15 16:12	MSC	P5B0458
1,4-Dichlorobenzene	BRL	mg/kg dry	0.23	0.059	50	8260B	2/24/15 16:12	MSC	P5B0458
2,2-Dichloropropane	BRL	mg/kg dry	0.23	0.051	50	8260B	2/24/15 16:12	MSC	P5B0458
2-Chlorotoluene	BRL	mg/kg dry	0.23	0.062	50	8260B	2/24/15 16:12	MSC	P5B0458
4-Chlorotoluene	BRL	mg/kg dry	0.23	0.053	50	8260B	2/24/15 16:12	MSC	P5B0458
4-Isopropyltoluene	**0.35**	**mg/kg dry**	**0.23**	**0.057**	**50**	**8260B**	**2/24/15 16:12**	**MSC**	**P5B0458**
Acetone	BRL	mg/kg dry	0.90	0.17	50	8260B	2/24/15 16:12	MSC	P5B0458
Benzene	BRL	mg/kg dry	0.23	0.050	50	8260B	2/24/15 16:12	MSC	P5B0458
Bromobenzene	BRL	mg/kg dry	0.23	0.053	50	8260B	2/24/15 16:12	MSC	P5B0458
Bromochloromethane	BRL	mg/kg dry	0.23	0.059	50	8260B	2/24/15 16:12	MSC	P5B0458
Bromodichloromethane	BRL	mg/kg dry	0.23	0.051	50	8260B	2/24/15 16:12	MSC	P5B0458
Bromoform	BRL	mg/kg dry	0.23	0.061	50	8260B	2/24/15 16:12	MSC	P5B0458
Bromomethane	BRL	mg/kg dry	0.45	0.059	50	8260B	2/24/15 16:12	MSC	P5B0458

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless B1 (10-12)
Prism Sample ID: 5020409-07
Prism Work Order: 5020409
Time Collected: 02/20/15 14:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.23	0.055	50	8260B	2/24/15 16:12	MSC	P5B0458
Chlorobenzene	BRL	mg/kg dry	0.23	0.046	50	8260B	2/24/15 16:12	MSC	P5B0458
Chloroethane	BRL	mg/kg dry	0.45	0.047	50	8260B	2/24/15 16:12	MSC	P5B0458
Chloroform	BRL	mg/kg dry	0.23	0.052	50	8260B	2/24/15 16:12	MSC	P5B0458
Chloromethane	BRL	mg/kg dry	0.45	0.050	50	8260B	2/24/15 16:12	MSC	P5B0458
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.23	0.047	50	8260B	2/24/15 16:12	MSC	P5B0458
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.23	0.050	50	8260B	2/24/15 16:12	MSC	P5B0458
Dibromochloromethane	BRL	mg/kg dry	0.23	0.048	50	8260B	2/24/15 16:12	MSC	P5B0458
Dichlorodifluoromethane	BRL	mg/kg dry	0.45	0.058	50	8260B	2/24/15 16:12	MSC	P5B0458
Ethanol	BRL	mg/kg dry	11	0.45	50	8260B	2/24/15 16:12	MSC	P5B0458
Ethylbenzene	**3.4**	**mg/kg dry**	**0.23**	**0.051**	**50**	**8260B**	**2/24/15 16:12**	**MSC**	**P5B0458**
Isopropyl Ether	BRL	mg/kg dry	0.23	0.047	50	8260B	2/24/15 16:12	MSC	P5B0458
Isopropylbenzene (Cumene)	**0.53**	**mg/kg dry**	**0.23**	**0.052**	**50**	**8260B**	**2/24/15 16:12**	**MSC**	**P5B0458**
m,p-Xylenes	**11**	**mg/kg dry**	**4.5**	**1.1**	**500**	**8260B**	**2/24/15 16:49**	**MSC**	**P5B0458**
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.90	0.051	50	8260B	2/24/15 16:12	MSC	P5B0458
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.90	0.037	50	8260B	2/24/15 16:12	MSC	P5B0458
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.90	0.040	50	8260B	2/24/15 16:12	MSC	P5B0458
Methylene Chloride	BRL	mg/kg dry	0.23	0.049	50	8260B	2/24/15 16:12	MSC	P5B0458
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.23	0.047	50	8260B	2/24/15 16:12	MSC	P5B0458
Naphthalene	**2.7**	**mg/kg dry**	**0.45**	**0.034**	**50**	**8260B**	**2/24/15 16:12**	**MSC**	**P5B0458**
n-Butylbenzene	**0.93**	**mg/kg dry**	**0.23**	**0.045**	**50**	**8260B**	**2/24/15 16:12**	**MSC**	**P5B0458**
n-Propylbenzene	**2.0**	**mg/kg dry**	**0.23**	**0.053**	**50**	**8260B**	**2/24/15 16:12**	**MSC**	**P5B0458**
o-Xylene	**3.5**	**mg/kg dry**	**0.23**	**0.050**	**50**	**8260B**	**2/24/15 16:12**	**MSC**	**P5B0458**
sec-Butylbenzene	**0.25**	**mg/kg dry**	**0.23**	**0.056**	**50**	**8260B**	**2/24/15 16:12**	**MSC**	**P5B0458**
Styrene	BRL	mg/kg dry	0.23	0.050	50	8260B	2/24/15 16:12	MSC	P5B0458
tert-Amyl Alcohol	BRL LH	mg/kg dry	180	1.9	500	8260B	2/24/15 16:49	MSC	P5B0458
tert-Amyl Methyl Ether	BRL	mg/kg dry	45	0.19	500	8260B	2/24/15 16:49	MSC	P5B0458
tert-Butyl Alcohol	BRL	mg/kg dry	90	0.16	500	8260B	2/24/15 16:49	MSC	P5B0458
tert-Butyl Formate	BRL A	mg/kg dry	180	0.22	500	8260B	2/24/15 16:49	MSC	P5B0458
tert-Butylbenzene	BRL	mg/kg dry	0.23	0.053	50	8260B	2/24/15 16:12	MSC	P5B0458
tert-Butyl Ethyl Ether	BRL	mg/kg dry	45	0.16	500	8260B	2/24/15 16:49	MSC	P5B0458
Tetrachloroethylene	BRL	mg/kg dry	0.23	0.048	50	8260B	2/24/15 16:12	MSC	P5B0458
Toluene	**0.89**	**mg/kg dry**	**0.23**	**0.048**	**50**	**8260B**	**2/24/15 16:12**	**MSC**	**P5B0458**
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.23	0.052	50	8260B	2/24/15 16:12	MSC	P5B0458
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.23	0.048	50	8260B	2/24/15 16:12	MSC	P5B0458
Trichloroethylene	BRL	mg/kg dry	0.23	0.049	50	8260B	2/24/15 16:12	MSC	P5B0458
Trichlorofluoromethane	BRL	mg/kg dry	0.45	0.064	50	8260B	2/24/15 16:12	MSC	P5B0458
Vinyl acetate	BRL	mg/kg dry	0.90	0.038	50	8260B	2/24/15 16:12	MSC	P5B0458
Vinyl chloride	BRL	mg/kg dry	0.45	0.063	50	8260B	2/24/15 16:12	MSC	P5B0458
Xylenes, total	**14**	**mg/kg dry**	**6.8**	**1.6**	**500**	**8260B**	**2/24/15 16:49**	**MSC**	**P5B0458**

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*151 %*	*70-130*	*SR*
Dibromofluoromethane	*129 %*	*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless B1 (10-12)
Prism Sample ID: 5020409-07
Prism Work Order: 5020409
Time Collected: 02/20/15 14:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8			*132 %*		*70-130*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz TMW-1 (8-10)
Prism Sample ID: 5020409-08
Prism Work Order: 5020409
Time Collected: 02/20/15 16:35
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	14	0.80	1	MADEP EPH	3/2/15 12:27	KC	P5B0437
C19-C36 Aliphatics	BRL	mg/kg dry	14	3.3	1	MADEP EPH	3/2/15 12:27	KC	P5B0437
C11-C22 Aromatics	BRL	mg/kg dry	14	2.5	1	MADEP EPH	3/2/15 12:27	KC	P5B0437

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*69 %*	*40-140*
o-Terphenyl	*79 %*	*40-140*
2-Fluorobiphenyl	*89 %*	*40-140*
2-Bromonaphthalene	*73 %*	*40-140*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**70.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.47	0.073	1	8270D	2/24/15 18:36	KC	P5B0420
1,2-Dichlorobenzene	BRL	mg/kg dry	0.47	0.071	1	8270D	2/24/15 18:36	KC	P5B0420
1,3-Dichlorobenzene	BRL	mg/kg dry	0.47	0.066	1	8270D	2/24/15 18:36	KC	P5B0420
1,4-Dichlorobenzene	BRL	mg/kg dry	0.47	0.068	1	8270D	2/24/15 18:36	KC	P5B0420
1-Methylnaphthalene	BRL	mg/kg dry	0.47	0.090	1	8270D	2/24/15 18:36	KC	P5B0420
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.47	0.088	1	8270D	2/24/15 18:36	KC	P5B0420
2,4-Dichlorophenol	BRL	mg/kg dry	0.47	0.090	1	8270D	2/24/15 18:36	KC	P5B0420
2,4-Dimethylphenol	BRL	mg/kg dry	0.47	0.072	1	8270D	2/24/15 18:36	KC	P5B0420
2,4-Dinitrophenol	BRL CCV	mg/kg dry	0.47	0.065	1	8270D	2/24/15 18:36	KC	P5B0420
2,4-Dinitrotoluene	BRL	mg/kg dry	0.47	0.057	1	8270D	2/24/15 18:36	KC	P5B0420
2,6-Dinitrotoluene	BRL	mg/kg dry	0.47	0.062	1	8270D	2/24/15 18:36	KC	P5B0420
2-Chloronaphthalene	BRL	mg/kg dry	0.47	0.068	1	8270D	2/24/15 18:36	KC	P5B0420
2-Chlorophenol	BRL	mg/kg dry	0.47	0.066	1	8270D	2/24/15 18:36	KC	P5B0420
2-Methylnaphthalene	BRL	mg/kg dry	0.47	0.075	1	8270D	2/24/15 18:36	KC	P5B0420
2-Methylphenol	BRL	mg/kg dry	0.47	0.060	1	8270D	2/24/15 18:36	KC	P5B0420
2-Nitrophenol	BRL	mg/kg dry	0.47	0.085	1	8270D	2/24/15 18:36	KC	P5B0420
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.47	0.092	1	8270D	2/24/15 18:36	KC	P5B0420
3/4-Methylphenol	BRL	mg/kg dry	0.47	0.058	1	8270D	2/24/15 18:36	KC	P5B0420
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.47	0.070	1	8270D	2/24/15 18:36	KC	P5B0420
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.47	0.080	1	8270D	2/24/15 18:36	KC	P5B0420
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.47	0.066	1	8270D	2/24/15 18:36	KC	P5B0420
4-Chloroaniline	BRL	mg/kg dry	0.47	0.056	1	8270D	2/24/15 18:36	KC	P5B0420
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.47	0.061	1	8270D	2/24/15 18:36	KC	P5B0420
4-Nitrophenol	BRL	mg/kg dry	0.47	0.072	1	8270D	2/24/15 18:36	KC	P5B0420
Acenaphthene	BRL	mg/kg dry	0.47	0.064	1	8270D	2/24/15 18:36	KC	P5B0420
Acenaphthylene	BRL	mg/kg dry	0.47	0.068	1	8270D	2/24/15 18:36	KC	P5B0420
Anthracene	BRL	mg/kg dry	0.47	0.075	1	8270D	2/24/15 18:36	KC	P5B0420
Azobenzene	BRL	mg/kg dry	0.47	0.062	1	8270D	2/24/15 18:36	KC	P5B0420
Benzo(a)anthracene	BRL	mg/kg dry	0.47	0.061	1	8270D	2/24/15 18:36	KC	P5B0420
Benzo(a)pyrene	BRL	mg/kg dry	0.47	0.051	1	8270D	2/24/15 18:36	KC	P5B0420

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz TMW-1 (8-10)
Prism Sample ID: 5020409-08
Prism Work Order: 5020409
Time Collected: 02/20/15 16:35
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.47	0.054	1	8270D	2/24/15 18:36	KC	P5B0420
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.47	0.051	1	8270D	2/24/15 18:36	KC	P5B0420
Benzo(k)fluoranthene	BRL	mg/kg dry	0.47	0.061	1	8270D	2/24/15 18:36	KC	P5B0420
Benzoic Acid	BRL CCV	mg/kg dry	0.47	0.039	1	8270D	2/24/15 18:36	KC	P5B0420
Benzyl alcohol	BRL	mg/kg dry	0.47	0.062	1	8270D	2/24/15 18:36	KC	P5B0420
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.47	0.081	1	8270D	2/24/15 18:36	KC	P5B0420
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.47	0.066	1	8270D	2/24/15 18:36	KC	P5B0420
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.47	0.080	1	8270D	2/24/15 18:36	KC	P5B0420
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.47	0.069	1	8270D	2/24/15 18:36	KC	P5B0420
Butyl benzyl phthalate	BRL	mg/kg dry	0.47	0.067	1	8270D	2/24/15 18:36	KC	P5B0420
Chrysene	BRL	mg/kg dry	0.47	0.059	1	8270D	2/24/15 18:36	KC	P5B0420
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.47	0.057	1	8270D	2/24/15 18:36	KC	P5B0420
Dibenzofuran	BRL	mg/kg dry	0.47	0.071	1	8270D	2/24/15 18:36	KC	P5B0420
Diethyl phthalate	BRL	mg/kg dry	0.47	0.064	1	8270D	2/24/15 18:36	KC	P5B0420
Dimethyl phthalate	BRL	mg/kg dry	0.47	0.062	1	8270D	2/24/15 18:36	KC	P5B0420
Di-n-butyl phthalate	BRL	mg/kg dry	0.47	0.066	1	8270D	2/24/15 18:36	KC	P5B0420
Di-n-octyl phthalate	BRL	mg/kg dry	0.47	0.058	1	8270D	2/24/15 18:36	KC	P5B0420
Fluoranthene	BRL	mg/kg dry	0.47	0.060	1	8270D	2/24/15 18:36	KC	P5B0420
Fluorene	BRL	mg/kg dry	0.47	0.067	1	8270D	2/24/15 18:36	KC	P5B0420
Hexachlorobenzene	BRL	mg/kg dry	0.47	0.074	1	8270D	2/24/15 18:36	KC	P5B0420
Hexachlorobutadiene	BRL	mg/kg dry	0.47	0.084	1	8270D	2/24/15 18:36	KC	P5B0420
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.47	0.083	1	8270D	2/24/15 18:36	KC	P5B0420
Hexachloroethane	BRL	mg/kg dry	0.47	0.078	1	8270D	2/24/15 18:36	KC	P5B0420
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.47	0.054	1	8270D	2/24/15 18:36	KC	P5B0420
Isophorone	BRL	mg/kg dry	0.47	0.063	1	8270D	2/24/15 18:36	KC	P5B0420
Naphthalene	BRL	mg/kg dry	0.47	0.075	1	8270D	2/24/15 18:36	KC	P5B0420
Nitrobenzene	BRL	mg/kg dry	0.47	0.066	1	8270D	2/24/15 18:36	KC	P5B0420
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.47	0.074	1	8270D	2/24/15 18:36	KC	P5B0420
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.47	0.071	1	8270D	2/24/15 18:36	KC	P5B0420
Pentachlorophenol	BRL	mg/kg dry	0.47	0.055	1	8270D	2/24/15 18:36	KC	P5B0420
Phenanthrene	BRL	mg/kg dry	0.47	0.061	1	8270D	2/24/15 18:36	KC	P5B0420
Phenol	BRL	mg/kg dry	0.47	0.069	1	8270D	2/24/15 18:36	KC	P5B0420
Pyrene	BRL	mg/kg dry	0.47	0.062	1	8270D	2/24/15 18:36	KC	P5B0420

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*108 %*	*39-132*
2-Fluorobiphenyl	*98 %*	*44-115*
2-Fluorophenol	*92 %*	*35-115*
Nitrobenzene-d5	*87 %*	*37-122*
Phenol-d5	*88 %*	*34-121*
Terphenyl-d14	*114 %*	*54-127*

Total Metals

Chromium	**28**	**mg/kg dry**	**0.36**	**0.059**	**1**	***6010C**	**2/25/15 19:16**	**BGM**	**P5B0463**
Lead	**8.3**	**mg/kg dry**	**0.36**	**0.054**	**1**	***6010C**	**2/25/15 19:16**	**BGM**	**P5B0463**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz TMW-1 (8-10)
Prism Sample ID: 5020409-08
Prism Work Order: 5020409
Time Collected: 02/20/15 16:35
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0067	0.00055	1	8260B	2/24/15 14:35	MSC	P5B0439
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/24/15 14:35	MSC	P5B0439
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0067	0.00045	1	8260B	2/24/15 14:35	MSC	P5B0439
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0067	0.00059	1	8260B	2/24/15 14:35	MSC	P5B0439
1,1-Dichloroethane	BRL	mg/kg dry	0.0067	0.00019	1	8260B	2/24/15 14:35	MSC	P5B0439
1,1-Dichloroethylene	BRL	mg/kg dry	0.0067	0.00029	1	8260B	2/24/15 14:35	MSC	P5B0439
1,1-Dichloropropylene	BRL	mg/kg dry	0.0067	0.00036	1	8260B	2/24/15 14:35	MSC	P5B0439
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0067	0.00038	1	8260B	2/24/15 14:35	MSC	P5B0439
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0067	0.00085	1	8260B	2/24/15 14:35	MSC	P5B0439
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0067	0.00050	1	8260B	2/24/15 14:35	MSC	P5B0439
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0067	0.00051	1	8260B	2/24/15 14:35	MSC	P5B0439
1,2-Dibromoethane	BRL	mg/kg dry	0.0067	0.00027	1	8260B	2/24/15 14:35	MSC	P5B0439
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0067	0.00031	1	8260B	2/24/15 14:35	MSC	P5B0439
1,2-Dichloroethane	BRL	mg/kg dry	0.0067	0.00040	1	8260B	2/24/15 14:35	MSC	P5B0439
1,2-Dichloropropane	BRL	mg/kg dry	0.0067	0.00041	1	8260B	2/24/15 14:35	MSC	P5B0439
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0067	0.00050	1	8260B	2/24/15 14:35	MSC	P5B0439
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0067	0.00044	1	8260B	2/24/15 14:35	MSC	P5B0439
1,3-Dichloropropane	BRL	mg/kg dry	0.0067	0.00033	1	8260B	2/24/15 14:35	MSC	P5B0439
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0067	0.00026	1	8260B	2/24/15 14:35	MSC	P5B0439
2,2-Dichloropropane	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/24/15 14:35	MSC	P5B0439
2-Chlorotoluene	BRL	mg/kg dry	0.0067	0.00034	1	8260B	2/24/15 14:35	MSC	P5B0439
4-Chlorotoluene	BRL	mg/kg dry	0.0067	0.00040	1	8260B	2/24/15 14:35	MSC	P5B0439
4-Isopropyltoluene	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/24/15 14:35	MSC	P5B0439
Acetone	BRL	mg/kg dry	0.067	0.0016	1	8260B	2/24/15 14:35	MSC	P5B0439
Benzene	BRL	mg/kg dry	0.0040	0.00039	1	8260B	2/24/15 14:35	MSC	P5B0439
Bromobenzene	BRL	mg/kg dry	0.0067	0.00056	1	8260B	2/24/15 14:35	MSC	P5B0439
Bromochloromethane	BRL	mg/kg dry	0.0067	0.00037	1	8260B	2/24/15 14:35	MSC	P5B0439
Bromodichloromethane	BRL	mg/kg dry	0.0067	0.00037	1	8260B	2/24/15 14:35	MSC	P5B0439
Bromoform	BRL	mg/kg dry	0.0067	0.00076	1	8260B	2/24/15 14:35	MSC	P5B0439
Bromomethane	BRL	mg/kg dry	0.013	0.00082	1	8260B	2/24/15 14:35	MSC	P5B0439
Carbon Tetrachloride	BRL	mg/kg dry	0.0067	0.00033	1	8260B	2/24/15 14:35	MSC	P5B0439
Chlorobenzene	BRL	mg/kg dry	0.0067	0.00035	1	8260B	2/24/15 14:35	MSC	P5B0439
Chloroethane	BRL	mg/kg dry	0.013	0.00056	1	8260B	2/24/15 14:35	MSC	P5B0439
Chloroform	BRL	mg/kg dry	0.0067	0.00048	1	8260B	2/24/15 14:35	MSC	P5B0439
Chloromethane	BRL	mg/kg dry	0.0067	0.00045	1	8260B	2/24/15 14:35	MSC	P5B0439
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0067	0.00028	1	8260B	2/24/15 14:35	MSC	P5B0439
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0067	0.00022	1	8260B	2/24/15 14:35	MSC	P5B0439
Dibromochloromethane	BRL	mg/kg dry	0.0067	0.00027	1	8260B	2/24/15 14:35	MSC	P5B0439
Dichlorodifluoromethane	BRL	mg/kg dry	0.0067	0.00030	1	8260B	2/24/15 14:35	MSC	P5B0439
Ethanol	BRL	mg/kg dry	0.33	0.13	1	8260B	2/24/15 14:35	MSC	P5B0439
Ethylbenzene	BRL	mg/kg dry	0.0067	0.00026	1	8260B	2/24/15 14:35	MSC	P5B0439
Isopropyl Ether	BRL	mg/kg dry	0.0067	0.00027	1	8260B	2/24/15 14:35	MSC	P5B0439

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz TMW-1 (8-10)
Prism Sample ID: 5020409-08
Prism Work Order: 5020409
Time Collected: 02/20/15 16:35
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	**0.0036 J**	**mg/kg dry**	**0.0067**	**0.00039**	**1**	**8260B**	**2/24/15 14:35**	**MSC**	**P5B0439**
m,p-Xylenes	BRL	mg/kg dry	0.013	0.00061	1	8260B	2/24/15 14:35	MSC	P5B0439
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.067	0.00060	1	8260B	2/24/15 14:35	MSC	P5B0439
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.13	0.00060	1	8260B	2/24/15 14:35	MSC	P5B0439
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.067	0.00057	1	8260B	2/24/15 14:35	MSC	P5B0439
Methylene Chloride	BRL	mg/kg dry	0.0067	0.00037	1	8260B	2/24/15 14:35	MSC	P5B0439
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.013	0.00021	1	8260B	2/24/15 14:35	MSC	P5B0439
Naphthalene	BRL	mg/kg dry	0.013	0.00021	1	8260B	2/24/15 14:35	MSC	P5B0439
n-Butylbenzene	BRL	mg/kg dry	0.0067	0.00034	1	8260B	2/24/15 14:35	MSC	P5B0439
n-Propylbenzene	BRL	mg/kg dry	0.0067	0.00040	1	8260B	2/24/15 14:35	MSC	P5B0439
o-Xylene	BRL	mg/kg dry	0.0067	0.00027	1	8260B	2/24/15 14:35	MSC	P5B0439
sec-Butylbenzene	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/24/15 14:35	MSC	P5B0439
Styrene	BRL	mg/kg dry	0.0067	0.00040	1	8260B	2/24/15 14:35	MSC	P5B0439
tert-Amyl Alcohol	BRL	mg/kg dry	0.53	0.0055	1	8260B	2/24/15 14:35	MSC	P5B0439
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.13	0.00057	1	8260B	2/24/15 14:35	MSC	P5B0439
tert-Butyl Alcohol	BRL	mg/kg dry	0.27	0.00047	1	8260B	2/24/15 14:35	MSC	P5B0439
tert-Butyl Formate	BRL	mg/kg dry	0.53	0.00066	1	8260B	2/24/15 14:35	MSC	P5B0439
tert-Butylbenzene	BRL	mg/kg dry	0.0067	0.00022	1	8260B	2/24/15 14:35	MSC	P5B0439
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.13	0.00047	1	8260B	2/24/15 14:35	MSC	P5B0439
Tetrachloroethylene	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/24/15 14:35	MSC	P5B0439
Toluene	BRL	mg/kg dry	0.0067	0.00038	1	8260B	2/24/15 14:35	MSC	P5B0439
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0067	0.00040	1	8260B	2/24/15 14:35	MSC	P5B0439
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0067	0.00035	1	8260B	2/24/15 14:35	MSC	P5B0439
Trichloroethylene	BRL	mg/kg dry	0.0067	0.00043	1	8260B	2/24/15 14:35	MSC	P5B0439
Trichlorofluoromethane	BRL	mg/kg dry	0.0067	0.00043	1	8260B	2/24/15 14:35	MSC	P5B0439
Vinyl acetate	BRL CCV	mg/kg dry	0.033	0.00091	1	8260B	2/24/15 14:35	MSC	P5B0439
Vinyl chloride	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/24/15 14:35	MSC	P5B0439
Xylenes, total	BRL	mg/kg dry	0.020	0.0012	1	8260B	2/24/15 14:35	MSC	P5B0439

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*98 %*	*70-130*
Dibromofluoromethane	*100 %*	*84-123*
Toluene-d8	*100 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	6.5	0.25	100	MADEP VPH	2/24/15 17:11	ANG	P5B0436
C9-C12 Aliphatics	BRL	mg/kg dry	6.5	0.59	100	MADEP VPH	2/24/15 17:11	ANG	P5B0436
C9-C10 Aromatics	BRL	mg/kg dry	6.5	0.056	100	MADEP VPH	2/24/15 17:11	ANG	P5B0436

Surrogate	Recovery	Control Limits	
2,5-Dibromotoluene (PID)	*134 %*	*70-130*	*SR*
2,5-Dibromotoluene (FID)	*133 %*	*70-130*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz TMW-1 (2-4)
Prism Sample ID: 5020409-09
Prism Work Order: 5020409
Time Collected: 02/20/15 16:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	0.67	1	MADEP EPH	3/2/15 13:04	KC	P5B0437
C19-C36 Aliphatics	**4.3 J**	**mg/kg dry**	**12**	**2.7**	**1**	**MADEP EPH**	**3/2/15 13:04**	**KC**	**P5B0437**
C11-C22 Aromatics	BRL	mg/kg dry	12	2.1	1	MADEP EPH	3/2/15 13:04	KC	P5B0437
			Surrogate			Recovery		Control Limits	
			1-Chlorooctadecane			*71 %*		*40-140*	
			o-Terphenyl			*74 %*		*40-140*	
			2-Fluorobiphenyl			*86 %*		*40-140*	
			2-Bromonaphthalene			*83 %*		*40-140*	
General Chemistry Parameters									
% Solids	**84.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.39	0.061	1	8270D	2/24/15 18:57	KC	P5B0420
1,2-Dichlorobenzene	BRL	mg/kg dry	0.39	0.059	1	8270D	2/24/15 18:57	KC	P5B0420
1,3-Dichlorobenzene	BRL	mg/kg dry	0.39	0.055	1	8270D	2/24/15 18:57	KC	P5B0420
1,4-Dichlorobenzene	BRL	mg/kg dry	0.39	0.057	1	8270D	2/24/15 18:57	KC	P5B0420
1-Methylnaphthalene	BRL	mg/kg dry	0.39	0.075	1	8270D	2/24/15 18:57	KC	P5B0420
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.39	0.073	1	8270D	2/24/15 18:57	KC	P5B0420
2,4-Dichlorophenol	BRL	mg/kg dry	0.39	0.075	1	8270D	2/24/15 18:57	KC	P5B0420
2,4-Dimethylphenol	BRL	mg/kg dry	0.39	0.060	1	8270D	2/24/15 18:57	KC	P5B0420
2,4-Dinitrophenol	BRL CCV	mg/kg dry	0.39	0.054	1	8270D	2/24/15 18:57	KC	P5B0420
2,4-Dinitrotoluene	BRL	mg/kg dry	0.39	0.047	1	8270D	2/24/15 18:57	KC	P5B0420
2,6-Dinitrotoluene	BRL	mg/kg dry	0.39	0.052	1	8270D	2/24/15 18:57	KC	P5B0420
2-Chloronaphthalene	BRL	mg/kg dry	0.39	0.056	1	8270D	2/24/15 18:57	KC	P5B0420
2-Chlorophenol	BRL	mg/kg dry	0.39	0.055	1	8270D	2/24/15 18:57	KC	P5B0420
2-Methylnaphthalene	BRL	mg/kg dry	0.39	0.062	1	8270D	2/24/15 18:57	KC	P5B0420
2-Methylphenol	BRL	mg/kg dry	0.39	0.050	1	8270D	2/24/15 18:57	KC	P5B0420
2-Nitrophenol	BRL	mg/kg dry	0.39	0.071	1	8270D	2/24/15 18:57	KC	P5B0420
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.39	0.077	1	8270D	2/24/15 18:57	KC	P5B0420
3/4-Methylphenol	BRL	mg/kg dry	0.39	0.048	1	8270D	2/24/15 18:57	KC	P5B0420
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.39	0.059	1	8270D	2/24/15 18:57	KC	P5B0420
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.39	0.067	1	8270D	2/24/15 18:57	KC	P5B0420
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.39	0.055	1	8270D	2/24/15 18:57	KC	P5B0420
4-Chloroaniline	BRL	mg/kg dry	0.39	0.047	1	8270D	2/24/15 18:57	KC	P5B0420
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.39	0.051	1	8270D	2/24/15 18:57	KC	P5B0420
4-Nitrophenol	BRL	mg/kg dry	0.39	0.060	1	8270D	2/24/15 18:57	KC	P5B0420
Acenaphthene	BRL	mg/kg dry	0.39	0.053	1	8270D	2/24/15 18:57	KC	P5B0420
Acenaphthylene	BRL	mg/kg dry	0.39	0.056	1	8270D	2/24/15 18:57	KC	P5B0420
Anthracene	BRL	mg/kg dry	0.39	0.063	1	8270D	2/24/15 18:57	KC	P5B0420
Azobenzene	BRL	mg/kg dry	0.39	0.051	1	8270D	2/24/15 18:57	KC	P5B0420
Benzo(a)anthracene	BRL	mg/kg dry	0.39	0.051	1	8270D	2/24/15 18:57	KC	P5B0420
Benzo(a)pyrene	BRL	mg/kg dry	0.39	0.042	1	8270D	2/24/15 18:57	KC	P5B0420

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz TMW-1 (2-4)
Prism Sample ID: 5020409-09
Prism Work Order: 5020409
Time Collected: 02/20/15 16:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.39	0.045	1	8270D	2/24/15 18:57	KC	P5B0420
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.39	0.043	1	8270D	2/24/15 18:57	KC	P5B0420
Benzo(k)fluoranthene	BRL	mg/kg dry	0.39	0.051	1	8270D	2/24/15 18:57	KC	P5B0420
Benzoic Acid	BRL CCV	mg/kg dry	0.39	0.033	1	8270D	2/24/15 18:57	KC	P5B0420
Benzyl alcohol	BRL	mg/kg dry	0.39	0.051	1	8270D	2/24/15 18:57	KC	P5B0420
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.39	0.068	1	8270D	2/24/15 18:57	KC	P5B0420
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.39	0.055	1	8270D	2/24/15 18:57	KC	P5B0420
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.39	0.067	1	8270D	2/24/15 18:57	KC	P5B0420
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.39	0.058	1	8270D	2/24/15 18:57	KC	P5B0420
Butyl benzyl phthalate	BRL	mg/kg dry	0.39	0.055	1	8270D	2/24/15 18:57	KC	P5B0420
Chrysene	BRL	mg/kg dry	0.39	0.049	1	8270D	2/24/15 18:57	KC	P5B0420
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.39	0.047	1	8270D	2/24/15 18:57	KC	P5B0420
Dibenzofuran	BRL	mg/kg dry	0.39	0.059	1	8270D	2/24/15 18:57	KC	P5B0420
Diethyl phthalate	BRL	mg/kg dry	0.39	0.054	1	8270D	2/24/15 18:57	KC	P5B0420
Dimethyl phthalate	BRL	mg/kg dry	0.39	0.051	1	8270D	2/24/15 18:57	KC	P5B0420
Di-n-butyl phthalate	BRL	mg/kg dry	0.39	0.055	1	8270D	2/24/15 18:57	KC	P5B0420
Di-n-octyl phthalate	BRL	mg/kg dry	0.39	0.048	1	8270D	2/24/15 18:57	KC	P5B0420
Fluoranthene	BRL	mg/kg dry	0.39	0.050	1	8270D	2/24/15 18:57	KC	P5B0420
Fluorene	BRL	mg/kg dry	0.39	0.056	1	8270D	2/24/15 18:57	KC	P5B0420
Hexachlorobenzene	BRL	mg/kg dry	0.39	0.062	1	8270D	2/24/15 18:57	KC	P5B0420
Hexachlorobutadiene	BRL	mg/kg dry	0.39	0.070	1	8270D	2/24/15 18:57	KC	P5B0420
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.39	0.069	1	8270D	2/24/15 18:57	KC	P5B0420
Hexachloroethane	BRL	mg/kg dry	0.39	0.065	1	8270D	2/24/15 18:57	KC	P5B0420
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.39	0.045	1	8270D	2/24/15 18:57	KC	P5B0420
Isophorone	BRL	mg/kg dry	0.39	0.053	1	8270D	2/24/15 18:57	KC	P5B0420
Naphthalene	BRL	mg/kg dry	0.39	0.063	1	8270D	2/24/15 18:57	KC	P5B0420
Nitrobenzene	BRL	mg/kg dry	0.39	0.055	1	8270D	2/24/15 18:57	KC	P5B0420
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.39	0.061	1	8270D	2/24/15 18:57	KC	P5B0420
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.39	0.059	1	8270D	2/24/15 18:57	KC	P5B0420
Pentachlorophenol	BRL	mg/kg dry	0.39	0.046	1	8270D	2/24/15 18:57	KC	P5B0420
Phenanthrene	BRL	mg/kg dry	0.39	0.051	1	8270D	2/24/15 18:57	KC	P5B0420
Phenol	BRL	mg/kg dry	0.39	0.057	1	8270D	2/24/15 18:57	KC	P5B0420
Pyrene	BRL	mg/kg dry	0.39	0.052	1	8270D	2/24/15 18:57	KC	P5B0420

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*112 %*	*39-132*
2-Fluorobiphenyl	*105 %*	*44-115*
2-Fluorophenol	*100 %*	*35-115*
Nitrobenzene-d5	*95 %*	*37-122*
Phenol-d5	*93 %*	*34-121*
Terphenyl-d14	*115 %*	*54-127*

Total Metals

Chromium	**11**	**mg/kg dry**	**0.29**	**0.048**	**1**	***6010C**	**2/25/15 19:24**	**BGM**	**P5B0463**
Lead	**6.2**	**mg/kg dry**	**0.29**	**0.045**	**1**	***6010C**	**2/25/15 19:24**	**BGM**	**P5B0463**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz TMW-1 (2-4)
Prism Sample ID: 5020409-09
Prism Work Order: 5020409
Time Collected: 02/20/15 16:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0069	0.00057	1	8260B	2/24/15 14:59	MSC	P5B0439
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0069	0.00033	1	8260B	2/24/15 14:59	MSC	P5B0439
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0069	0.00047	1	8260B	2/24/15 14:59	MSC	P5B0439
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0069	0.00061	1	8260B	2/24/15 14:59	MSC	P5B0439
1,1-Dichloroethane	BRL	mg/kg dry	0.0069	0.00019	1	8260B	2/24/15 14:59	MSC	P5B0439
1,1-Dichloroethylene	BRL	mg/kg dry	0.0069	0.00031	1	8260B	2/24/15 14:59	MSC	P5B0439
1,1-Dichloropropylene	BRL	mg/kg dry	0.0069	0.00038	1	8260B	2/24/15 14:59	MSC	P5B0439
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0069	0.00039	1	8260B	2/24/15 14:59	MSC	P5B0439
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0069	0.00088	1	8260B	2/24/15 14:59	MSC	P5B0439
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0069	0.00051	1	8260B	2/24/15 14:59	MSC	P5B0439
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0069	0.00053	1	8260B	2/24/15 14:59	MSC	P5B0439
1,2-Dibromoethane	BRL	mg/kg dry	0.0069	0.00028	1	8260B	2/24/15 14:59	MSC	P5B0439
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0069	0.00032	1	8260B	2/24/15 14:59	MSC	P5B0439
1,2-Dichloroethane	BRL	mg/kg dry	0.0069	0.00041	1	8260B	2/24/15 14:59	MSC	P5B0439
1,2-Dichloropropane	BRL	mg/kg dry	0.0069	0.00043	1	8260B	2/24/15 14:59	MSC	P5B0439
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0069	0.00052	1	8260B	2/24/15 14:59	MSC	P5B0439
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0069	0.00046	1	8260B	2/24/15 14:59	MSC	P5B0439
1,3-Dichloropropane	BRL	mg/kg dry	0.0069	0.00035	1	8260B	2/24/15 14:59	MSC	P5B0439
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0069	0.00027	1	8260B	2/24/15 14:59	MSC	P5B0439
2,2-Dichloropropane	BRL	mg/kg dry	0.0069	0.00033	1	8260B	2/24/15 14:59	MSC	P5B0439
2-Chlorotoluene	BRL	mg/kg dry	0.0069	0.00036	1	8260B	2/24/15 14:59	MSC	P5B0439
4-Chlorotoluene	BRL	mg/kg dry	0.0069	0.00041	1	8260B	2/24/15 14:59	MSC	P5B0439
4-Isopropyltoluene	BRL	mg/kg dry	0.0069	0.00033	1	8260B	2/24/15 14:59	MSC	P5B0439
Acetone	**0.13**	**mg/kg dry**	**0.069**	**0.0017**	**1**	**8260B**	**2/24/15 14:59**	**MSC**	**P5B0439**
Benzene	BRL	mg/kg dry	0.0041	0.00040	1	8260B	2/24/15 14:59	MSC	P5B0439
Bromobenzene	BRL	mg/kg dry	0.0069	0.00058	1	8260B	2/24/15 14:59	MSC	P5B0439
Bromochloromethane	BRL	mg/kg dry	0.0069	0.00038	1	8260B	2/24/15 14:59	MSC	P5B0439
Bromodichloromethane	BRL	mg/kg dry	0.0069	0.00039	1	8260B	2/24/15 14:59	MSC	P5B0439
Bromoform	BRL	mg/kg dry	0.0069	0.00079	1	8260B	2/24/15 14:59	MSC	P5B0439
Bromomethane	BRL	mg/kg dry	0.014	0.00085	1	8260B	2/24/15 14:59	MSC	P5B0439
Carbon Tetrachloride	BRL	mg/kg dry	0.0069	0.00034	1	8260B	2/24/15 14:59	MSC	P5B0439
Chlorobenzene	BRL	mg/kg dry	0.0069	0.00037	1	8260B	2/24/15 14:59	MSC	P5B0439
Chloroethane	BRL	mg/kg dry	0.014	0.00058	1	8260B	2/24/15 14:59	MSC	P5B0439
Chloroform	BRL	mg/kg dry	0.0069	0.00050	1	8260B	2/24/15 14:59	MSC	P5B0439
Chloromethane	BRL	mg/kg dry	0.0069	0.00046	1	8260B	2/24/15 14:59	MSC	P5B0439
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0069	0.00029	1	8260B	2/24/15 14:59	MSC	P5B0439
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0069	0.00023	1	8260B	2/24/15 14:59	MSC	P5B0439
Dibromochloromethane	BRL	mg/kg dry	0.0069	0.00028	1	8260B	2/24/15 14:59	MSC	P5B0439
Dichlorodifluoromethane	BRL	mg/kg dry	0.0069	0.00031	1	8260B	2/24/15 14:59	MSC	P5B0439
Ethanol	BRL	mg/kg dry	0.35	0.14	1	8260B	2/24/15 14:59	MSC	P5B0439
Ethylbenzene	BRL	mg/kg dry	0.0069	0.00027	1	8260B	2/24/15 14:59	MSC	P5B0439
Isopropyl Ether	BRL	mg/kg dry	0.0069	0.00028	1	8260B	2/24/15 14:59	MSC	P5B0439

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz TMW-1 (2-4)
Prism Sample ID: 5020409-09
Prism Work Order: 5020409
Time Collected: 02/20/15 16:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	**0.014**	**mg/kg dry**	**0.0069**	**0.00041**	**1**	**8260B**	**2/24/15 14:59**	**MSC**	**P5B0439**
m,p-Xylenes	BRL	mg/kg dry	0.014	0.00064	1	8260B	2/24/15 14:59	MSC	P5B0439
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.069	0.00062	1	8260B	2/24/15 14:59	MSC	P5B0439
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.14	0.00062	1	8260B	2/24/15 14:59	MSC	P5B0439
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.069	0.00059	1	8260B	2/24/15 14:59	MSC	P5B0439
Methylene Chloride	BRL	mg/kg dry	0.0069	0.00039	1	8260B	2/24/15 14:59	MSC	P5B0439
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.014	0.00022	1	8260B	2/24/15 14:59	MSC	P5B0439
Naphthalene	BRL	mg/kg dry	0.014	0.00022	1	8260B	2/24/15 14:59	MSC	P5B0439
n-Butylbenzene	BRL	mg/kg dry	0.0069	0.00035	1	8260B	2/24/15 14:59	MSC	P5B0439
n-Propylbenzene	BRL	mg/kg dry	0.0069	0.00041	1	8260B	2/24/15 14:59	MSC	P5B0439
o-Xylene	BRL	mg/kg dry	0.0069	0.00028	1	8260B	2/24/15 14:59	MSC	P5B0439
sec-Butylbenzene	BRL	mg/kg dry	0.0069	0.00033	1	8260B	2/24/15 14:59	MSC	P5B0439
Styrene	BRL	mg/kg dry	0.0069	0.00042	1	8260B	2/24/15 14:59	MSC	P5B0439
tert-Amyl Alcohol	BRL	mg/kg dry	0.55	0.0057	1	8260B	2/24/15 14:59	MSC	P5B0439
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.14	0.00059	1	8260B	2/24/15 14:59	MSC	P5B0439
tert-Butyl Alcohol	BRL	mg/kg dry	0.28	0.00049	1	8260B	2/24/15 14:59	MSC	P5B0439
tert-Butyl Formate	BRL	mg/kg dry	0.55	0.00069	1	8260B	2/24/15 14:59	MSC	P5B0439
tert-Butylbenzene	BRL	mg/kg dry	0.0069	0.00023	1	8260B	2/24/15 14:59	MSC	P5B0439
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.14	0.00049	1	8260B	2/24/15 14:59	MSC	P5B0439
Tetrachloroethylene	BRL	mg/kg dry	0.0069	0.00033	1	8260B	2/24/15 14:59	MSC	P5B0439
Toluene	BRL	mg/kg dry	0.0069	0.00040	1	8260B	2/24/15 14:59	MSC	P5B0439
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0069	0.00041	1	8260B	2/24/15 14:59	MSC	P5B0439
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0069	0.00036	1	8260B	2/24/15 14:59	MSC	P5B0439
Trichloroethylene	BRL	mg/kg dry	0.0069	0.00045	1	8260B	2/24/15 14:59	MSC	P5B0439
Trichlorofluoromethane	BRL	mg/kg dry	0.0069	0.00045	1	8260B	2/24/15 14:59	MSC	P5B0439
Vinyl acetate	BRL CCV	mg/kg dry	0.035	0.00095	1	8260B	2/24/15 14:59	MSC	P5B0439
Vinyl chloride	BRL	mg/kg dry	0.0069	0.00033	1	8260B	2/24/15 14:59	MSC	P5B0439
Xylenes, total	BRL	mg/kg dry	0.021	0.0013	1	8260B	2/24/15 14:59	MSC	P5B0439

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*91 %*	*70-130*
Dibromofluoromethane	*93 %*	*84-123*
Toluene-d8	*95 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.8	0.18	100	MADEP VPH	2/24/15 17:44	ANG	P5B0436
C9-C12 Aliphatics	**1.5 J**	**mg/kg dry**	**4.8**	**0.44**	**100**	**MADEP VPH**	**2/24/15 17:44**	**ANG**	**P5B0436**
C9-C10 Aromatics	**0.34 J**	**mg/kg dry**	**4.8**	**0.041**	**100**	**MADEP VPH**	**2/24/15 17:44**	**ANG**	**P5B0436**

Surrogate	Recovery	Control Limits	
2,5-Dibromotoluene (PID)	*139 %*	*70-130*	*SR*
2,5-Dibromotoluene (FID)	*139 %*	*70-130*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-6 (11-13)
Prism Sample ID: 5020409-10
Prism Work Order: 5020409
Time Collected: 02/20/15 15:15
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.2	1.1	50	*8015C	2/26/15 0:18	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*95 %*		*50-137*	
General Chemistry Parameters									
% Solids	**78.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00044	1	8260B	2/24/15 15:23	MSC	P5B0439
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0053	0.00026	1	8260B	2/24/15 15:23	MSC	P5B0439
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00036	1	8260B	2/24/15 15:23	MSC	P5B0439
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0053	0.00047	1	8260B	2/24/15 15:23	MSC	P5B0439
1,1-Dichloroethane	BRL	mg/kg dry	0.0053	0.00015	1	8260B	2/24/15 15:23	MSC	P5B0439
1,1-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00024	1	8260B	2/24/15 15:23	MSC	P5B0439
1,1-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00029	1	8260B	2/24/15 15:23	MSC	P5B0439
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00030	1	8260B	2/24/15 15:23	MSC	P5B0439
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0053	0.00068	1	8260B	2/24/15 15:23	MSC	P5B0439
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00040	1	8260B	2/24/15 15:23	MSC	P5B0439
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00041	1	8260B	2/24/15 15:23	MSC	P5B0439
1,2-Dibromoethane	BRL	mg/kg dry	0.0053	0.00021	1	8260B	2/24/15 15:23	MSC	P5B0439
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00025	1	8260B	2/24/15 15:23	MSC	P5B0439
1,2-Dichloroethane	BRL	mg/kg dry	0.0053	0.00032	1	8260B	2/24/15 15:23	MSC	P5B0439
1,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00033	1	8260B	2/24/15 15:23	MSC	P5B0439
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00040	1	8260B	2/24/15 15:23	MSC	P5B0439
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00035	1	8260B	2/24/15 15:23	MSC	P5B0439
1,3-Dichloropropane	BRL	mg/kg dry	0.0053	0.00027	1	8260B	2/24/15 15:23	MSC	P5B0439
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00021	1	8260B	2/24/15 15:23	MSC	P5B0439
2,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00025	1	8260B	2/24/15 15:23	MSC	P5B0439
2-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00028	1	8260B	2/24/15 15:23	MSC	P5B0439
4-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	2/24/15 15:23	MSC	P5B0439
4-Isopropyltoluene	BRL	mg/kg dry	0.0053	0.00026	1	8260B	2/24/15 15:23	MSC	P5B0439
Acetone	BRL	mg/kg dry	0.053	0.0013	1	8260B	2/24/15 15:23	MSC	P5B0439
Benzene	BRL	mg/kg dry	0.0032	0.00031	1	8260B	2/24/15 15:23	MSC	P5B0439
Bromobenzene	BRL	mg/kg dry	0.0053	0.00044	1	8260B	2/24/15 15:23	MSC	P5B0439
Bromochloromethane	BRL	mg/kg dry	0.0053	0.00029	1	8260B	2/24/15 15:23	MSC	P5B0439
Bromodichloromethane	BRL	mg/kg dry	0.0053	0.00030	1	8260B	2/24/15 15:23	MSC	P5B0439
Bromoform	BRL	mg/kg dry	0.0053	0.00061	1	8260B	2/24/15 15:23	MSC	P5B0439
Bromomethane	BRL	mg/kg dry	0.011	0.00066	1	8260B	2/24/15 15:23	MSC	P5B0439
Carbon Tetrachloride	BRL	mg/kg dry	0.0053	0.00027	1	8260B	2/24/15 15:23	MSC	P5B0439
Chlorobenzene	BRL	mg/kg dry	0.0053	0.00028	1	8260B	2/24/15 15:23	MSC	P5B0439
Chloroethane	BRL	mg/kg dry	0.011	0.00044	1	8260B	2/24/15 15:23	MSC	P5B0439
Chloroform	BRL	mg/kg dry	0.0053	0.00038	1	8260B	2/24/15 15:23	MSC	P5B0439
Chloromethane	BRL	mg/kg dry	0.0053	0.00036	1	8260B	2/24/15 15:23	MSC	P5B0439

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-6 (11-13)
Prism Sample ID: 5020409-10
Prism Work Order: 5020409
Time Collected: 02/20/15 15:15
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00023	1	8260B	2/24/15 15:23	MSC	P5B0439
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00018	1	8260B	2/24/15 15:23	MSC	P5B0439
Dibromochloromethane	BRL	mg/kg dry	0.0053	0.00022	1	8260B	2/24/15 15:23	MSC	P5B0439
Dichlorodifluoromethane	BRL	mg/kg dry	0.0053	0.00024	1	8260B	2/24/15 15:23	MSC	P5B0439
Ethanol	BRL	mg/kg dry	0.27	0.11	1	8260B	2/24/15 15:23	MSC	P5B0439
Ethylbenzene	BRL	mg/kg dry	0.0053	0.00020	1	8260B	2/24/15 15:23	MSC	P5B0439
Isopropyl Ether	BRL	mg/kg dry	0.0053	0.00022	1	8260B	2/24/15 15:23	MSC	P5B0439
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0053	0.00032	1	8260B	2/24/15 15:23	MSC	P5B0439
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00049	1	8260B	2/24/15 15:23	MSC	P5B0439
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.053	0.00048	1	8260B	2/24/15 15:23	MSC	P5B0439
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00048	1	8260B	2/24/15 15:23	MSC	P5B0439
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.053	0.00045	1	8260B	2/24/15 15:23	MSC	P5B0439
Methylene Chloride	BRL	mg/kg dry	0.0053	0.00030	1	8260B	2/24/15 15:23	MSC	P5B0439
Methyl-tert-Butyl Ether	**0.040**	**mg/kg dry**	**0.011**	**0.00017**	**1**	**8260B**	**2/24/15 15:23**	**MSC**	**P5B0439**
Naphthalene	BRL	mg/kg dry	0.011	0.00017	1	8260B	2/24/15 15:23	MSC	P5B0439
n-Butylbenzene	BRL	mg/kg dry	0.0053	0.00027	1	8260B	2/24/15 15:23	MSC	P5B0439
n-Propylbenzene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	2/24/15 15:23	MSC	P5B0439
o-Xylene	BRL	mg/kg dry	0.0053	0.00022	1	8260B	2/24/15 15:23	MSC	P5B0439
sec-Butylbenzene	BRL	mg/kg dry	0.0053	0.00026	1	8260B	2/24/15 15:23	MSC	P5B0439
Styrene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	2/24/15 15:23	MSC	P5B0439
tert-Amyl Alcohol	**0.030 J**	**mg/kg dry**	**0.43**	**0.0044**	**1**	**8260B**	**2/24/15 15:23**	**MSC**	**P5B0439**
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00046	1	8260B	2/24/15 15:23	MSC	P5B0439
tert-Butyl Alcohol	BRL	mg/kg dry	0.21	0.00037	1	8260B	2/24/15 15:23	MSC	P5B0439
tert-Butyl Formate	BRL	mg/kg dry	0.43	0.00053	1	8260B	2/24/15 15:23	MSC	P5B0439
tert-Butylbenzene	BRL	mg/kg dry	0.0053	0.00018	1	8260B	2/24/15 15:23	MSC	P5B0439
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00037	1	8260B	2/24/15 15:23	MSC	P5B0439
Tetrachloroethylene	BRL	mg/kg dry	0.0053	0.00025	1	8260B	2/24/15 15:23	MSC	P5B0439
Toluene	BRL	mg/kg dry	0.0053	0.00031	1	8260B	2/24/15 15:23	MSC	P5B0439
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	2/24/15 15:23	MSC	P5B0439
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00028	1	8260B	2/24/15 15:23	MSC	P5B0439
Trichloroethylene	BRL	mg/kg dry	0.0053	0.00035	1	8260B	2/24/15 15:23	MSC	P5B0439
Trichlorofluoromethane	BRL	mg/kg dry	0.0053	0.00034	1	8260B	2/24/15 15:23	MSC	P5B0439
Vinyl acetate	BRL CCV	mg/kg dry	0.027	0.00073	1	8260B	2/24/15 15:23	MSC	P5B0439
Vinyl chloride	BRL	mg/kg dry	0.0053	0.00026	1	8260B	2/24/15 15:23	MSC	P5B0439
Xylenes, total	BRL	mg/kg dry	0.016	0.0010	1	8260B	2/24/15 15:23	MSC	P5B0439

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*90 %*	*70-130*
Dibromofluoromethane	*92 %*	*84-123*
Toluene-d8	*92 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-6 (13-15))
Prism Sample ID: 5020409-11
Prism Work Order: 5020409
Time Collected: 02/20/15 15:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.1	1.1	50	*8015C	2/26/15 0:46	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*94 %*		*50-137*	
General Chemistry Parameters									
% Solids	**80.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00040	1	8260B	2/24/15 15:47	MSC	P5B0439
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/24/15 15:47	MSC	P5B0439
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00033	1	8260B	2/24/15 15:47	MSC	P5B0439
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0048	0.00043	1	8260B	2/24/15 15:47	MSC	P5B0439
1,1-Dichloroethane	BRL	mg/kg dry	0.0048	0.00013	1	8260B	2/24/15 15:47	MSC	P5B0439
1,1-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00021	1	8260B	2/24/15 15:47	MSC	P5B0439
1,1-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00026	1	8260B	2/24/15 15:47	MSC	P5B0439
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00027	1	8260B	2/24/15 15:47	MSC	P5B0439
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0048	0.00062	1	8260B	2/24/15 15:47	MSC	P5B0439
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00036	1	8260B	2/24/15 15:47	MSC	P5B0439
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00037	1	8260B	2/24/15 15:47	MSC	P5B0439
1,2-Dibromoethane	BRL	mg/kg dry	0.0048	0.00019	1	8260B	2/24/15 15:47	MSC	P5B0439
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/24/15 15:47	MSC	P5B0439
1,2-Dichloroethane	BRL	mg/kg dry	0.0048	0.00029	1	8260B	2/24/15 15:47	MSC	P5B0439
1,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00030	1	8260B	2/24/15 15:47	MSC	P5B0439
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00037	1	8260B	2/24/15 15:47	MSC	P5B0439
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00032	1	8260B	2/24/15 15:47	MSC	P5B0439
1,3-Dichloropropane	BRL	mg/kg dry	0.0048	0.00024	1	8260B	2/24/15 15:47	MSC	P5B0439
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00019	1	8260B	2/24/15 15:47	MSC	P5B0439
2,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/24/15 15:47	MSC	P5B0439
2-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	2/24/15 15:47	MSC	P5B0439
4-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	2/24/15 15:47	MSC	P5B0439
4-Isopropyltoluene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/24/15 15:47	MSC	P5B0439
Acetone	**0.052**	**mg/kg dry**	**0.048**	**0.0012**	**1**	**8260B**	**2/24/15 15:47**	**MSC**	**P5B0439**
Benzene	BRL	mg/kg dry	0.0029	0.00028	1	8260B	2/24/15 15:47	MSC	P5B0439
Bromobenzene	BRL	mg/kg dry	0.0048	0.00040	1	8260B	2/24/15 15:47	MSC	P5B0439
Bromochloromethane	BRL	mg/kg dry	0.0048	0.00027	1	8260B	2/24/15 15:47	MSC	P5B0439
Bromodichloromethane	BRL	mg/kg dry	0.0048	0.00027	1	8260B	2/24/15 15:47	MSC	P5B0439
Bromoform	BRL	mg/kg dry	0.0048	0.00055	1	8260B	2/24/15 15:47	MSC	P5B0439
Bromomethane	BRL	mg/kg dry	0.0097	0.00060	1	8260B	2/24/15 15:47	MSC	P5B0439
Carbon Tetrachloride	BRL	mg/kg dry	0.0048	0.00024	1	8260B	2/24/15 15:47	MSC	P5B0439
Chlorobenzene	BRL	mg/kg dry	0.0048	0.00026	1	8260B	2/24/15 15:47	MSC	P5B0439
Chloroethane	BRL	mg/kg dry	0.0097	0.00040	1	8260B	2/24/15 15:47	MSC	P5B0439
Chloroform	BRL	mg/kg dry	0.0048	0.00035	1	8260B	2/24/15 15:47	MSC	P5B0439
Chloromethane	BRL	mg/kg dry	0.0048	0.00032	1	8260B	2/24/15 15:47	MSC	P5B0439

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-6 (13-15))
Prism Sample ID: 5020409-11
Prism Work Order: 5020409
Time Collected: 02/20/15 15:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00021	1	8260B	2/24/15 15:47	MSC	P5B0439
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	2/24/15 15:47	MSC	P5B0439
Dibromochloromethane	BRL	mg/kg dry	0.0048	0.00020	1	8260B	2/24/15 15:47	MSC	P5B0439
Dichlorodifluoromethane	BRL	mg/kg dry	0.0048	0.00022	1	8260B	2/24/15 15:47	MSC	P5B0439
Ethanol	BRL	mg/kg dry	0.24	0.097	1	8260B	2/24/15 15:47	MSC	P5B0439
Ethylbenzene	BRL	mg/kg dry	0.0048	0.00019	1	8260B	2/24/15 15:47	MSC	P5B0439
Isopropyl Ether	**0.010**	**mg/kg dry**	**0.0048**	**0.00020**	**1**	**8260B**	**2/24/15 15:47**	**MSC**	**P5B0439**
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0048	0.00029	1	8260B	2/24/15 15:47	MSC	P5B0439
m,p-Xylenes	BRL	mg/kg dry	0.0097	0.00045	1	8260B	2/24/15 15:47	MSC	P5B0439
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.048	0.00044	1	8260B	2/24/15 15:47	MSC	P5B0439
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.097	0.00044	1	8260B	2/24/15 15:47	MSC	P5B0439
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.048	0.00041	1	8260B	2/24/15 15:47	MSC	P5B0439
Methylene Chloride	BRL	mg/kg dry	0.0048	0.00027	1	8260B	2/24/15 15:47	MSC	P5B0439
Methyl-tert-Butyl Ether	**0.10**	**mg/kg dry**	**0.0097**	**0.00015**	**1**	**8260B**	**2/24/15 15:47**	**MSC**	**P5B0439**
Naphthalene	BRL	mg/kg dry	0.0097	0.00015	1	8260B	2/24/15 15:47	MSC	P5B0439
n-Butylbenzene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	2/24/15 15:47	MSC	P5B0439
n-Propylbenzene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	2/24/15 15:47	MSC	P5B0439
o-Xylene	BRL	mg/kg dry	0.0048	0.00020	1	8260B	2/24/15 15:47	MSC	P5B0439
sec-Butylbenzene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/24/15 15:47	MSC	P5B0439
Styrene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	2/24/15 15:47	MSC	P5B0439
tert-Amyl Alcohol	**0.080 J**	**mg/kg dry**	**0.39**	**0.0040**	**1**	**8260B**	**2/24/15 15:47**	**MSC**	**P5B0439**
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.097	0.00041	1	8260B	2/24/15 15:47	MSC	P5B0439
tert-Butyl Alcohol	BRL	mg/kg dry	0.19	0.00034	1	8260B	2/24/15 15:47	MSC	P5B0439
tert-Butyl Formate	BRL	mg/kg dry	0.39	0.00048	1	8260B	2/24/15 15:47	MSC	P5B0439
tert-Butylbenzene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	2/24/15 15:47	MSC	P5B0439
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.097	0.00034	1	8260B	2/24/15 15:47	MSC	P5B0439
Tetrachloroethylene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/24/15 15:47	MSC	P5B0439
Toluene	BRL	mg/kg dry	0.0048	0.00028	1	8260B	2/24/15 15:47	MSC	P5B0439
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	2/24/15 15:47	MSC	P5B0439
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	2/24/15 15:47	MSC	P5B0439
Trichloroethylene	BRL	mg/kg dry	0.0048	0.00031	1	8260B	2/24/15 15:47	MSC	P5B0439
Trichlorofluoromethane	BRL	mg/kg dry	0.0048	0.00031	1	8260B	2/24/15 15:47	MSC	P5B0439
Vinyl acetate	BRL CCV	mg/kg dry	0.024	0.00066	1	8260B	2/24/15 15:47	MSC	P5B0439
Vinyl chloride	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/24/15 15:47	MSC	P5B0439
Xylenes, total	BRL	mg/kg dry	0.014	0.00091	1	8260B	2/24/15 15:47	MSC	P5B0439

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*118 %*	*70-130*
Dibromofluoromethane	*121 %*	*84-123*
Toluene-d8	*121 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020409-12
Prism Work Order: 5020409
Time Collected: 02/20/15 00:00
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	2/23/15 17:56	VHL	P5B0450
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	2/23/15 17:56	VHL	P5B0450
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	2/23/15 17:56	VHL	P5B0450
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/23/15 17:56	VHL	P5B0450
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	2/23/15 17:56	VHL	P5B0450
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	2/23/15 17:56	VHL	P5B0450
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	2/23/15 17:56	VHL	P5B0450
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	2/23/15 17:56	VHL	P5B0450
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	2/23/15 17:56	VHL	P5B0450
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	2/23/15 17:56	VHL	P5B0450
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	2/23/15 17:56	VHL	P5B0450
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	2/23/15 17:56	VHL	P5B0450
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	2/23/15 17:56	VHL	P5B0450
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	2/23/15 17:56	VHL	P5B0450
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/23/15 17:56	VHL	P5B0450
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	2/23/15 17:56	VHL	P5B0450
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	2/23/15 17:56	VHL	P5B0450
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	2/23/15 17:56	VHL	P5B0450
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	2/23/15 17:56	VHL	P5B0450
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	2/23/15 17:56	VHL	P5B0450
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	2/23/15 17:56	VHL	P5B0450
2-Chloroethyl Vinyl Ether	BRL Aa	ug/L	5.0	0.37	1	8260B	2/23/15 17:56	VHL	P5B0450
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	2/23/15 17:56	VHL	P5B0450
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	2/23/15 17:56	VHL	P5B0450
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	2/23/15 17:56	VHL	P5B0450
Acetone	BRL	ug/L	5.0	0.31	1	8260B	2/23/15 17:56	VHL	P5B0450
Acrolein	BRL	ug/L	20	0.20	1	8260B	2/23/15 17:56	VHL	P5B0450
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	2/23/15 17:56	VHL	P5B0450
Benzene	BRL	ug/L	0.50	0.048	1	8260B	2/23/15 17:56	VHL	P5B0450
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	2/23/15 17:56	VHL	P5B0450
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	2/23/15 17:56	VHL	P5B0450
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	2/23/15 17:56	VHL	P5B0450
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	2/23/15 17:56	VHL	P5B0450
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	2/23/15 17:56	VHL	P5B0450
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	2/23/15 17:56	VHL	P5B0450
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	2/23/15 17:56	VHL	P5B0450
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	2/23/15 17:56	VHL	P5B0450
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	2/23/15 17:56	VHL	P5B0450
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	2/23/15 17:56	VHL	P5B0450
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	2/23/15 17:56	VHL	P5B0450
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	2/23/15 17:56	VHL	P5B0450
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	2/23/15 17:56	VHL	P5B0450

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020409-12
Prism Work Order: 5020409
Time Collected: 02/20/15 00:00
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	2/23/15 17:56	VHL	P5B0450
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	2/23/15 17:56	VHL	P5B0450
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	2/23/15 17:56	VHL	P5B0450
Ethanol	BRL	ug/L	200	27	1	8260B	2/23/15 17:56	VHL	P5B0450
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	2/23/15 17:56	VHL	P5B0450
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	2/23/15 17:56	VHL	P5B0450
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	2/23/15 17:56	VHL	P5B0450
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	2/23/15 17:56	VHL	P5B0450
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	2/23/15 17:56	VHL	P5B0450
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	2/23/15 17:56	VHL	P5B0450
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	2/23/15 17:56	VHL	P5B0450
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	2/23/15 17:56	VHL	P5B0450
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	2/23/15 17:56	VHL	P5B0450
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	2/23/15 17:56	VHL	P5B0450
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	2/23/15 17:56	VHL	P5B0450
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	2/23/15 17:56	VHL	P5B0450
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	2/23/15 17:56	VHL	P5B0450
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	2/23/15 17:56	VHL	P5B0450
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	2/23/15 17:56	VHL	P5B0450
Styrene	BRL	ug/L	0.50	0.047	1	8260B	2/23/15 17:56	VHL	P5B0450
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	8260B	2/23/15 17:56	VHL	P5B0450
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	8260B	2/23/15 17:56	VHL	P5B0450
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	8260B	2/23/15 17:56	VHL	P5B0450
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	2/23/15 17:56	VHL	P5B0450
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	8260B	2/23/15 17:56	VHL	P5B0450
tert-Butyl Formate	BRL	ug/L	10	0.25	1	8260B	2/23/15 17:56	VHL	P5B0450
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	2/23/15 17:56	VHL	P5B0450
Toluene	BRL	ug/L	0.50	0.044	1	8260B	2/23/15 17:56	VHL	P5B0450
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	2/23/15 17:56	VHL	P5B0450
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	2/23/15 17:56	VHL	P5B0450
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	2/23/15 17:56	VHL	P5B0450
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	2/23/15 17:56	VHL	P5B0450
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	2/23/15 17:56	VHL	P5B0450
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	2/23/15 17:56	VHL	P5B0450

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0439 - 5035										
Blank (P5B0439-BLK1)				Prepared & Analyzed: 02/24/15						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethanol	BRL	0.25	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0439 - 5035										
Blank (P5B0439-BLK1)				Prepared & Analyzed: 02/24/15						
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Amyl Alcohol	BRL	0.40	mg/kg wet							
tert-Amyl Methyl Ether	BRL	0.10	mg/kg wet							
tert-Butyl Alcohol	BRL	0.20	mg/kg wet							
tert-Butyl Formate	BRL	0.40	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
tert-Butyl Ethyl Ether	BRL	0.10	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0484*		*mg/kg wet*	*0.05000*		*97*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0488*		*mg/kg wet*	*0.05000*		*98*	*84-123*			
Surrogate: Toluene-d8	*0.0493*		*mg/kg wet*	*0.05000*		*99*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0439 - 5035										
LCS (P5B0439-BS1)				Prepared & Analyzed: 02/24/15						
1,1,1,2-Tetrachloroethane	0.0564	0.0050	mg/kg wet	0.05000		113	72-115			
1,1,1-Trichloroethane	0.0490	0.0050	mg/kg wet	0.05000		98	67-131			
1,1,2,2-Tetrachloroethane	0.0672	0.0050	mg/kg wet	0.05000		134	56-126			L1
1,1,2-Trichloroethane	0.0596	0.0050	mg/kg wet	0.05000		119	70-133			
1,1-Dichloroethane	0.0548	0.0050	mg/kg wet	0.05000		110	74-127			
1,1-Dichloroethylene	0.0519	0.0050	mg/kg wet	0.05000		104	67-149			
1,1-Dichloropropylene	0.0595	0.0050	mg/kg wet	0.05000		119	71-130			
1,2,3-Trichlorobenzene	0.0564	0.0050	mg/kg wet	0.05000		113	68-130			
1,2,3-Trichloropropane	0.0584	0.0050	mg/kg wet	0.05000		117	60-137			
1,2,4-Trichlorobenzene	0.0562	0.0050	mg/kg wet	0.05000		112	66-125			
1,2,4-Trimethylbenzene	0.0589	0.0050	mg/kg wet	0.05000		118	69-129			
1,2-Dibromoethane	0.0617	0.0050	mg/kg wet	0.05000		123	70-132			
1,2-Dichlorobenzene	0.0592	0.0050	mg/kg wet	0.05000		118	72-123			
1,2-Dichloroethane	0.0462	0.0050	mg/kg wet	0.05000		92	68-128			
1,2-Dichloropropane	0.0603	0.0050	mg/kg wet	0.05000		121	73-130			
1,3,5-Trimethylbenzene	0.0588	0.0050	mg/kg wet	0.05000		118	69-128			
1,3-Dichlorobenzene	0.0584	0.0050	mg/kg wet	0.05000		117	71-120			
1,3-Dichloropropane	0.0580	0.0050	mg/kg wet	0.05000		116	75-124			
1,4-Dichlorobenzene	0.0586	0.0050	mg/kg wet	0.05000		117	71-123			
2,2-Dichloropropane	0.0491	0.0050	mg/kg wet	0.05000		98	50-142			
2-Chlorotoluene	0.0568	0.0050	mg/kg wet	0.05000		114	67-124			
4-Chlorotoluene	0.0576	0.0050	mg/kg wet	0.05000		115	71-126			
4-Isopropyltoluene	0.0584	0.0050	mg/kg wet	0.05000		117	68-129			
Acetone	0.113	0.050	mg/kg wet	0.1000		113	29-198			
Benzene	0.0621	0.0030	mg/kg wet	0.05000		124	74-127			
Bromobenzene	0.0579	0.0050	mg/kg wet	0.05000		116	73-125			
Bromochloromethane	0.0576	0.0050	mg/kg wet	0.05000		115	72-134			
Bromodichloromethane	0.0489	0.0050	mg/kg wet	0.05000		98	75-122			
Bromoform	0.0545	0.0050	mg/kg wet	0.05000		109	66-135			
Bromomethane	0.0394	0.010	mg/kg wet	0.05000		79	20-180			
Carbon Tetrachloride	0.0503	0.0050	mg/kg wet	0.05000		101	64-143			
Chlorobenzene	0.0587	0.0050	mg/kg wet	0.05000		117	74-118			
Chloroethane	0.0546	0.010	mg/kg wet	0.05000		109	33-149			
Chloroform	0.0490	0.0050	mg/kg wet	0.05000		98	73-127			
Chloromethane	0.0680	0.0050	mg/kg wet	0.05000		136	45-143			
cis-1,2-Dichloroethylene	0.0578	0.0050	mg/kg wet	0.05000		116	76-134			
cis-1,3-Dichloropropylene	0.0582	0.0050	mg/kg wet	0.05000		116	71-125			
Dibromochloromethane	0.0528	0.0050	mg/kg wet	0.05000		106	73-122			
Dichlorodifluoromethane	0.0653	0.0050	mg/kg wet	0.05000		131	26-146			
Ethanol	1.54	0.25	mg/kg wet	1.250		123	70-130			
Ethylbenzene	0.0565	0.0050	mg/kg wet	0.05000		113	74-128			
Isopropyl Ether	0.0510	0.0050	mg/kg wet	0.05000		102	59-159			
Isopropylbenzene (Cumene)	0.0612	0.0050	mg/kg wet	0.05000		122	68-126			
m,p-Xylenes	0.113	0.010	mg/kg wet	0.1000		113	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0645	0.050	mg/kg wet	0.05000		129	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0621	0.10	mg/kg wet	0.05000		124	63-149			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0439 - 5035										
LCS (P5B0439-BS1)				Prepared & Analyzed: 02/24/15						
Methyl Isobutyl Ketone	0.0606	0.050	mg/kg wet	0.05000		121	57-162			
Methylene Chloride	0.0525	0.0050	mg/kg wet	0.05000		105	74-129			
Methyl-tert-Butyl Ether	0.0562	0.010	mg/kg wet	0.05000		112	70-130			
Naphthalene	0.0607	0.010	mg/kg wet	0.05000		121	57-157			
n-Butylbenzene	0.0589	0.0050	mg/kg wet	0.05000		118	65-135			
n-Propylbenzene	0.0593	0.0050	mg/kg wet	0.05000		119	67-130			
o-Xylene	0.0564	0.0050	mg/kg wet	0.05000		113	74-126			
sec-Butylbenzene	0.0603	0.0050	mg/kg wet	0.05000		121	66-131			
Styrene	0.0627	0.0050	mg/kg wet	0.05000		125	77-121			L1
tert-Amyl Alcohol	0.0686	0.40	mg/kg wet	0.05000		137	70-130			L1, J
tert-Amyl Methyl Ether	0.119	0.10	mg/kg wet	0.1000		119	70-130			
tert-Butyl Alcohol	0.115	0.20	mg/kg wet	0.1000		115	70-130			J
tert-Butyl Formate	0.127	0.40	mg/kg wet	0.1000		127	70-130			J
tert-Butylbenzene	0.0584	0.0050	mg/kg wet	0.05000		117	67-132			
tert-Butyl Ethyl Ether	0.115	0.10	mg/kg wet	0.1000		115	70-130			
Tetrachloroethylene	0.0601	0.0050	mg/kg wet	0.05000		120	68-130			
Toluene	0.0606	0.0050	mg/kg wet	0.05000		121	71-129			
trans-1,2-Dichloroethylene	0.0556	0.0050	mg/kg wet	0.05000		111	73-132			
trans-1,3-Dichloropropylene	0.0571	0.0050	mg/kg wet	0.05000		114	68-123			
Trichloroethylene	0.0580	0.0050	mg/kg wet	0.05000		116	75-133			
Trichlorofluoromethane	0.0548	0.0050	mg/kg wet	0.05000		110	44-146			
Vinyl acetate	0.0667	0.025	mg/kg wet	0.05000		133	85-161			
Vinyl chloride	0.0583	0.0050	mg/kg wet	0.05000		117	48-147			
Xylenes, total	0.169	0.015	mg/kg wet	0.1500		113	74-126			
Surrogate: 4-Bromofluorobenzene	*0.0495*		*mg/kg wet*	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0505*		*mg/kg wet*	*0.05000*		*101*	*84-123*			
Surrogate: Toluene-d8	*0.0508*		*mg/kg wet*	*0.05000*		*102*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0439 - 5035										
LCS Dup (P5B0439-BSD1)				Prepared & Analyzed: 02/24/15						
1,1,1,2-Tetrachloroethane	0.0531	0.0050	mg/kg wet	0.05000		106	72-115	6	20	
1,1,1-Trichloroethane	0.0446	0.0050	mg/kg wet	0.05000		89	67-131	10	20	
1,1,2,2-Tetrachloroethane	0.0630	0.0050	mg/kg wet	0.05000		126	56-126	6	20	
1,1,2-Trichloroethane	0.0562	0.0050	mg/kg wet	0.05000		112	70-133	6	20	
1,1-Dichloroethane	0.0509	0.0050	mg/kg wet	0.05000		102	74-127	7	20	
1,1-Dichloroethylene	0.0484	0.0050	mg/kg wet	0.05000		97	67-149	7	20	
1,1-Dichloropropylene	0.0542	0.0050	mg/kg wet	0.05000		108	71-130	9	20	
1,2,3-Trichlorobenzene	0.0541	0.0050	mg/kg wet	0.05000		108	68-130	4	20	
1,2,3-Trichloropropane	0.0551	0.0050	mg/kg wet	0.05000		110	60-137	6	20	
1,2,4-Trichlorobenzene	0.0529	0.0050	mg/kg wet	0.05000		106	66-125	6	20	
1,2,4-Trimethylbenzene	0.0551	0.0050	mg/kg wet	0.05000		110	69-129	7	20	
1,2-Dibromoethane	0.0573	0.0050	mg/kg wet	0.05000		115	70-132	7	20	
1,2-Dichlorobenzene	0.0559	0.0050	mg/kg wet	0.05000		112	72-123	6	20	
1,2-Dichloroethane	0.0432	0.0050	mg/kg wet	0.05000		86	68-128	7	20	
1,2-Dichloropropane	0.0567	0.0050	mg/kg wet	0.05000		113	73-130	6	20	
1,3,5-Trimethylbenzene	0.0552	0.0050	mg/kg wet	0.05000		110	69-128	6	20	
1,3-Dichlorobenzene	0.0554	0.0050	mg/kg wet	0.05000		111	71-120	5	20	
1,3-Dichloropropane	0.0548	0.0050	mg/kg wet	0.05000		110	75-124	6	20	
1,4-Dichlorobenzene	0.0555	0.0050	mg/kg wet	0.05000		111	71-123	5	20	
2,2-Dichloropropane	0.0450	0.0050	mg/kg wet	0.05000		90	50-142	9	20	
2-Chlorotoluene	0.0531	0.0050	mg/kg wet	0.05000		106	67-124	7	20	
4-Chlorotoluene	0.0541	0.0050	mg/kg wet	0.05000		108	71-126	6	20	
4-Isopropyltoluene	0.0542	0.0050	mg/kg wet	0.05000		108	68-129	8	20	
Acetone	0.103	0.050	mg/kg wet	0.1000		103	29-198	10	20	
Benzene	0.0577	0.0030	mg/kg wet	0.05000		115	74-127	7	20	
Bromobenzene	0.0546	0.0050	mg/kg wet	0.05000		109	73-125	6	20	
Bromochloromethane	0.0544	0.0050	mg/kg wet	0.05000		109	72-134	6	20	
Bromodichloromethane	0.0454	0.0050	mg/kg wet	0.05000		91	75-122	8	20	
Bromoform	0.0515	0.0050	mg/kg wet	0.05000		103	66-135	6	20	
Bromomethane	0.0402	0.010	mg/kg wet	0.05000		80	20-180	2	20	
Carbon Tetrachloride	0.0467	0.0050	mg/kg wet	0.05000		93	64-143	8	20	
Chlorobenzene	0.0557	0.0050	mg/kg wet	0.05000		111	74-118	5	20	
Chloroethane	0.0530	0.010	mg/kg wet	0.05000		106	33-149	3	20	
Chloroform	0.0452	0.0050	mg/kg wet	0.05000		90	73-127	8	20	
Chloromethane	0.0638	0.0050	mg/kg wet	0.05000		128	45-143	6	20	
cis-1,2-Dichloroethylene	0.0534	0.0050	mg/kg wet	0.05000		107	76-134	8	20	
cis-1,3-Dichloropropylene	0.0547	0.0050	mg/kg wet	0.05000		109	71-125	6	20	
Dibromochloromethane	0.0498	0.0050	mg/kg wet	0.05000		100	73-122	6	20	
Dichlorodifluoromethane	0.0592	0.0050	mg/kg wet	0.05000		118	26-146	10	20	
Ethanol	1.40	0.25	mg/kg wet	1.250		112	70-130	10	20	
Ethylbenzene	0.0527	0.0050	mg/kg wet	0.05000		105	74-128	7	20	
Isopropyl Ether	0.0474	0.0050	mg/kg wet	0.05000		95	59-159	7	20	
Isopropylbenzene (Cumene)	0.0570	0.0050	mg/kg wet	0.05000		114	68-126	7	20	
m,p-Xylenes	0.106	0.010	mg/kg wet	0.1000		106	75-124	6	20	
Methyl Butyl Ketone (2-Hexanone)	0.0595	0.050	mg/kg wet	0.05000		119	61-157	8	20	
Methyl Ethyl Ketone (2-Butanone)	0.0563	0.10	mg/kg wet	0.05000		113	63-149	10	20	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0439 - 5035										
LCS Dup (P5B0439-BSD1)			Prepared & Analyzed: 02/24/15							
Methyl Isobutyl Ketone	0.0552	0.050	mg/kg wet	0.05000		110	57-162	9	20	
Methylene Chloride	0.0492	0.0050	mg/kg wet	0.05000		98	74-129	6	20	
Methyl-tert-Butyl Ether	0.0529	0.010	mg/kg wet	0.05000		106	70-130	6	20	
Naphthalene	0.0571	0.010	mg/kg wet	0.05000		114	57-157	6	20	
n-Butylbenzene	0.0543	0.0050	mg/kg wet	0.05000		109	65-135	8	20	
n-Propylbenzene	0.0555	0.0050	mg/kg wet	0.05000		111	67-130	7	20	
o-Xylene	0.0528	0.0050	mg/kg wet	0.05000		106	74-126	7	20	
sec-Butylbenzene	0.0559	0.0050	mg/kg wet	0.05000		112	66-131	7	20	
Styrene	0.0594	0.0050	mg/kg wet	0.05000		119	77-121	5	20	
tert-Amyl Alcohol	0.0644	0.40	mg/kg wet	0.05000		129	70-130	6	20	J
tert-Amyl Methyl Ether	0.112	0.10	mg/kg wet	0.1000		112	70-130	7	20	
tert-Butyl Alcohol	0.108	0.20	mg/kg wet	0.1000		108	70-130	7	20	J
tert-Butyl Formate	0.118	0.40	mg/kg wet	0.1000		118	70-130	7	20	J
tert-Butylbenzene	0.0542	0.0050	mg/kg wet	0.05000		108	67-132	7	20	
tert-Butyl Ethyl Ether	0.108	0.10	mg/kg wet	0.1000		108	70-130	7	20	
Tetrachloroethylene	0.0550	0.0050	mg/kg wet	0.05000		110	68-130	9	20	
Toluene	0.0560	0.0050	mg/kg wet	0.05000		112	71-129	8	20	
trans-1,2-Dichloroethylene	0.0513	0.0050	mg/kg wet	0.05000		103	73-132	8	20	
trans-1,3-Dichloropropylene	0.0534	0.0050	mg/kg wet	0.05000		107	68-123	7	20	
Trichloroethylene	0.0530	0.0050	mg/kg wet	0.05000		106	75-133	9	20	
Trichlorofluoromethane	0.0499	0.0050	mg/kg wet	0.05000		100	44-146	9	20	
Vinyl acetate	0.0614	0.025	mg/kg wet	0.05000		123	85-161	8	20	
Vinyl chloride	0.0545	0.0050	mg/kg wet	0.05000		109	48-147	7	20	
Xylenes, total	0.159	0.015	mg/kg wet	0.1500		106	74-126	6	20	
Surrogate: 4-Bromofluorobenzene	*0.0473*		*mg/kg wet*	*0.05000*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0475*		*mg/kg wet*	*0.05000*		*95*	*84-123*			
Surrogate: Toluene-d8	*0.0483*		*mg/kg wet*	*0.05000*		*97*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
Blank (P5B0450-BLK1)				Prepared & Analyzed: 02/23/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	5.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethanol	BRL	200	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
Blank (P5B0450-BLK1)				Prepared & Analyzed: 02/23/15						
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Amyl Alcohol	BRL	10	ug/L							
tert-Amyl Methyl Ether	BRL	10	ug/L							
tert-Butyl Alcohol	BRL	10	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
tert-Butyl Ethyl Ether	BRL	10	ug/L							
tert-Butyl Formate	BRL	10	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/L*	*25.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*26.4*		*ug/L*	*25.00*		*106*	*75-129*			
Surrogate: Toluene-d8	*25.4*		*ug/L*	*25.00*		*102*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
LCS (P5B0450-BS1)				Prepared & Analyzed: 02/23/15						
1,1,1,2-Tetrachloroethane	20.0	0.50	ug/L	20.00		100	79-134			
1,1,1-Trichloroethane	21.0	0.50	ug/L	20.00		105	75-136			
1,1,2,2-Tetrachloroethane	18.4	0.50	ug/L	20.00		92	62-127			
1,1,2-Trichloroethane	19.7	0.50	ug/L	20.00		98	70-140			
1,1-Dichloroethane	19.4	0.50	ug/L	20.00		97	78-130			
1,1-Dichloroethylene	21.8	0.50	ug/L	20.00		109	70-154			
1,1-Dichloropropylene	23.3	0.50	ug/L	20.00		117	71-136			
1,2,3-Trichlorobenzene	20.2	2.0	ug/L	20.00		101	58-144			
1,2,3-Trichloropropane	17.8	1.0	ug/L	20.00		89	71-127			
1,2,4-Trichlorobenzene	21.3	1.0	ug/L	20.00		106	66-139			
1,2,4-Trimethylbenzene	21.4	0.50	ug/L	20.00		107	75-133			
1,2-Dibromo-3-chloropropane	19.4	2.0	ug/L	20.00		97	63-134			
1,2-Dibromoethane	20.4	0.50	ug/L	20.00		102	77-135			
1,2-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	78-128			
1,2-Dichloroethane	19.5	0.50	ug/L	20.00		97	68-131			
1,2-Dichloropropane	19.6	0.50	ug/L	20.00		98	77-130			
1,3,5-Trimethylbenzene	22.1	0.50	ug/L	20.00		110	75-131			
1,3-Dichlorobenzene	20.1	0.50	ug/L	20.00		101	77-125			
1,3-Dichloropropane	19.1	0.50	ug/L	20.00		95	76-132			
1,4-Dichlorobenzene	19.7	0.50	ug/L	20.00		98	75-126			
2,2-Dichloropropane	21.8	2.0	ug/L	20.00		109	29-149			
2-Chloroethyl Vinyl Ether	11.3	5.0	ug/L	20.00		57	34-144			
2-Chlorotoluene	20.9	0.50	ug/L	20.00		104	74-126			
4-Chlorotoluene	20.6	0.50	ug/L	20.00		103	78-129			
4-Isopropyltoluene	22.6	0.50	ug/L	20.00		113	69-132			
Acetone	40.1	5.0	ug/L	40.00		100	40-166			
Acrolein	41.9	20	ug/L	40.00		105	70-130			
Acrylonitrile	41.0	20	ug/L	40.00		102	81-127			
Benzene	21.4	0.50	ug/L	20.00		107	77-128			
Bromobenzene	19.8	0.50	ug/L	20.00		99	78-129			
Bromochloromethane	21.3	0.50	ug/L	20.00		107	78-135			
Bromodichloromethane	18.3	0.50	ug/L	20.00		92	76-138			
Bromoform	17.7	1.0	ug/L	20.00		88	71-135			
Bromomethane	17.2	1.0	ug/L	20.00		86	41-168			
Carbon disulfide	19.9	5.0	ug/L	20.00		100	59-135			
Carbon Tetrachloride	21.2	0.50	ug/L	20.00		106	72-142			
Chlorobenzene	20.1	0.50	ug/L	20.00		100	78-119			
Chloroethane	21.6	0.50	ug/L	20.00		108	57-142			
Chloroform	18.7	0.50	ug/L	20.00		93	77-130			
Chloromethane	20.9	0.50	ug/L	20.00		104	47-145			
cis-1,2-Dichloroethylene	19.8	0.50	ug/L	20.00		99	76-141			
cis-1,3-Dichloropropylene	21.1	0.50	ug/L	20.00		106	65-140			
Dibromochloromethane	18.3	0.50	ug/L	20.00		91	75-134			
Dibromomethane	18.0	0.50	ug/L	20.00		90	76-138			
Dichlorodifluoromethane	23.6	1.0	ug/L	20.00		118	28-163			
Ethanol	328	200	ug/L	500.0		66	70-130			L1

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
LCS (P5B0450-BS1)				Prepared & Analyzed: 02/23/15						
Ethylbenzene	20.4	0.50	ug/L	20.00		102	80-127			
Hexachlorobutadiene	22.2	2.0	ug/L	20.00		111	61-134			
Isopropyl Ether	17.7	0.50	ug/L	20.00		89	60-154			
Isopropylbenzene (Cumene)	23.0	0.50	ug/L	20.00		115	70-130			
m,p-Xylenes	42.4	1.0	ug/L	40.00		106	77-133			
Methyl Butyl Ketone (2-Hexanone)	19.3	5.0	ug/L	20.00		97	64-137			
Methyl Ethyl Ketone (2-Butanone)	20.4	5.0	ug/L	20.00		102	71-134			
Methyl Isobutyl Ketone	18.5	5.0	ug/L	20.00		92	69-134			
Methylene Chloride	20.6	1.0	ug/L	20.00		103	73-131			
Methyl-tert-Butyl Ether	19.6	0.50	ug/L	20.00		98	68-135			
Naphthalene	20.3	1.0	ug/L	20.00		101	64-136			
n-Butylbenzene	22.4	1.0	ug/L	20.00		112	68-134			
n-Propylbenzene	22.3	0.50	ug/L	20.00		112	72-132			
o-Xylene	21.1	0.50	ug/L	20.00		106	78-128			
sec-Butylbenzene	21.2	0.50	ug/L	20.00		106	71-131			
Styrene	21.3	0.50	ug/L	20.00		107	78-129			
tert-Amyl Alcohol	25.0	10	ug/L	20.00		125	70-130			
tert-Amyl Methyl Ether	41.1	10	ug/L	40.00		103	70-130			
tert-Butyl Alcohol	32.4	10	ug/L	40.00		81	70-130			
tert-Butylbenzene	22.1	0.50	ug/L	20.00		111	70-132			
tert-Butyl Ethyl Ether	40.2	10	ug/L	40.00		101	70-130			
tert-Butyl Formate	41.4	10	ug/L	40.00		104	70-130			
Tetrachloroethylene	20.1	0.50	ug/L	20.00		100	80-129			
Toluene	20.8	0.50	ug/L	20.00		104	76-131			
trans-1,2-Dichloroethylene	21.5	0.50	ug/L	20.00		108	76-135			
trans-1,3-Dichloropropylene	21.2	0.50	ug/L	20.00		106	67-140			
Trichloroethylene	21.5	0.50	ug/L	20.00		108	77-133			
Trichlorofluoromethane	23.5	0.50	ug/L	20.00		117	62-148			
Vinyl acetate	21.4	2.0	ug/L	20.00		107	34-167			
Vinyl chloride	22.3	0.50	ug/L	20.00		111	57-141			
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/L*	*25.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/L*	*25.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*24.4*		*ug/L*	*25.00*		*98*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
LCS Dup (P5B0450-BSD1)				Prepared & Analyzed: 02/23/15						
1,1,1,2-Tetrachloroethane	20.0	0.50	ug/L	20.00		100	79-134	0.1	20	
1,1,1-Trichloroethane	20.7	0.50	ug/L	20.00		103	75-136	2	20	
1,1,2,2-Tetrachloroethane	18.4	0.50	ug/L	20.00		92	62-127	0.05	20	
1,1,2-Trichloroethane	19.2	0.50	ug/L	20.00		96	70-140	2	20	
1,1-Dichloroethane	19.7	0.50	ug/L	20.00		98	78-130	2	20	
1,1-Dichloroethylene	21.8	0.50	ug/L	20.00		109	70-154	0.3	20	
1,1-Dichloropropylene	23.2	0.50	ug/L	20.00		116	71-136	0.6	20	
1,2,3-Trichlorobenzene	20.9	2.0	ug/L	20.00		105	58-144	3	20	
1,2,3-Trichloropropane	19.0	1.0	ug/L	20.00		95	71-127	6	20	
1,2,4-Trichlorobenzene	22.4	1.0	ug/L	20.00		112	66-139	5	20	
1,2,4-Trimethylbenzene	22.3	0.50	ug/L	20.00		111	75-133	4	20	
1,2-Dibromo-3-chloropropane	20.3	2.0	ug/L	20.00		101	63-134	4	20	
1,2-Dibromoethane	20.5	0.50	ug/L	20.00		103	77-135	0.3	20	
1,2-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	78-128	0.1	20	
1,2-Dichloroethane	19.6	0.50	ug/L	20.00		98	68-131	0.7	20	
1,2-Dichloropropane	19.7	0.50	ug/L	20.00		98	77-130	0.2	20	
1,3,5-Trimethylbenzene	22.3	0.50	ug/L	20.00		112	75-131	1	20	
1,3-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	77-125	1	20	
1,3-Dichloropropane	19.4	0.50	ug/L	20.00		97	76-132	2	20	
1,4-Dichlorobenzene	20.5	0.50	ug/L	20.00		102	75-126	4	20	
2,2-Dichloropropane	21.6	2.0	ug/L	20.00		108	29-149	1	20	
2-Chloroethyl Vinyl Ether	11.7	5.0	ug/L	20.00		59	34-144	4	20	
2-Chlorotoluene	20.9	0.50	ug/L	20.00		104	74-126	0.1	20	
4-Chlorotoluene	20.8	0.50	ug/L	20.00		104	78-129	1	20	
4-Isopropyltoluene	22.6	0.50	ug/L	20.00		113	69-132	0.1	20	
Acetone	39.9	5.0	ug/L	40.00		100	40-166	0.6	20	
Acrolein	41.6	20	ug/L	40.00		104	70-130	0.7	20	
Acrylonitrile	41.2	20	ug/L	40.00		103	81-127	0.5	20	
Benzene	21.2	0.50	ug/L	20.00		106	77-128	0.8	20	
Bromobenzene	20.2	0.50	ug/L	20.00		101	78-129	2	20	
Bromochloromethane	21.6	0.50	ug/L	20.00		108	78-135	1	20	
Bromodichloromethane	18.5	0.50	ug/L	20.00		92	76-138	1	20	
Bromoform	18.7	1.0	ug/L	20.00		93	71-135	6	20	
Bromomethane	17.6	1.0	ug/L	20.00		88	41-168	3	20	
Carbon disulfide	20.8	5.0	ug/L	20.00		104	59-135	4	20	
Carbon Tetrachloride	20.9	0.50	ug/L	20.00		104	72-142	1	20	
Chlorobenzene	20.9	0.50	ug/L	20.00		104	78-119	4	20	
Chloroethane	20.9	0.50	ug/L	20.00		104	57-142	3	20	
Chloroform	17.7	0.50	ug/L	20.00		88	77-130	6	20	
Chloromethane	20.5	0.50	ug/L	20.00		102	47-145	2	20	
cis-1,2-Dichloroethylene	20.7	0.50	ug/L	20.00		104	76-141	4	20	
cis-1,3-Dichloropropylene	20.8	0.50	ug/L	20.00		104	65-140	1	20	
Dibromochloromethane	18.9	0.50	ug/L	20.00		94	75-134	3	20	
Dibromomethane	18.0	0.50	ug/L	20.00		90	76-138	0.1	20	
Dichlorodifluoromethane	23.0	1.0	ug/L	20.00		115	28-163	2	20	
Ethanol	640	200	ug/L	500.0		128	70-130	64	20	D

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
LCS Dup (P5B0450-BSD1)				Prepared & Analyzed: 02/23/15						
Ethylbenzene	20.9	0.50	ug/L	20.00		104	80-127	2	20	
Hexachlorobutadiene	22.4	2.0	ug/L	20.00		112	61-134	0.5	20	
Isopropyl Ether	17.6	0.50	ug/L	20.00		88	60-154	1	20	
Isopropylbenzene (Cumene)	23.5	0.50	ug/L	20.00		117	70-130	2	20	
m,p-Xylenes	44.0	1.0	ug/L	40.00		110	77-133	4	20	
Methyl Butyl Ketone (2-Hexanone)	20.2	5.0	ug/L	20.00		101	64-137	4	20	
Methyl Ethyl Ketone (2-Butanone)	20.8	5.0	ug/L	20.00		104	71-134	2	20	
Methyl Isobutyl Ketone	19.0	5.0	ug/L	20.00		95	69-134	3	20	
Methylene Chloride	20.5	1.0	ug/L	20.00		103	73-131	0.6	20	
Methyl-tert-Butyl Ether	19.4	0.50	ug/L	20.00		97	68-135	1	20	
Naphthalene	21.1	1.0	ug/L	20.00		106	64-136	4	20	
n-Butylbenzene	23.0	1.0	ug/L	20.00		115	68-134	3	20	
n-Propylbenzene	22.6	0.50	ug/L	20.00		113	72-132	2	20	
o-Xylene	21.7	0.50	ug/L	20.00		108	78-128	3	20	
sec-Butylbenzene	21.4	0.50	ug/L	20.00		107	71-131	1	20	
Styrene	21.4	0.50	ug/L	20.00		107	78-129	0.5	20	
tert-Amyl Alcohol	24.3	10	ug/L	20.00		122	70-130	3	20	
tert-Amyl Methyl Ether	40.6	10	ug/L	40.00		101	70-130	1	20	
tert-Butyl Alcohol	28.8	10	ug/L	40.00		72	70-130	12	20	
tert-Butylbenzene	22.2	0.50	ug/L	20.00		111	70-132	0.09	20	
tert-Butyl Ethyl Ether	41.0	10	ug/L	40.00		102	70-130	2	20	
tert-Butyl Formate	41.9	10	ug/L	40.00		105	70-130	1	20	
Tetrachloroethylene	19.8	0.50	ug/L	20.00		99	80-129	1	20	
Toluene	20.6	0.50	ug/L	20.00		103	76-131	1	20	
trans-1,2-Dichloroethylene	21.8	0.50	ug/L	20.00		109	76-135	1	20	
trans-1,3-Dichloropropylene	20.2	0.50	ug/L	20.00		101	67-140	4	20	
Trichloroethylene	21.6	0.50	ug/L	20.00		108	77-133	0.5	20	
Trichlorofluoromethane	23.8	0.50	ug/L	20.00		119	62-148	1	20	
Vinyl acetate	21.1	2.0	ug/L	20.00		106	34-167	1	20	
Vinyl chloride	23.4	0.50	ug/L	20.00		117	57-141	5	20	
Surrogate: 4-Bromofluorobenzene	*26.1*		*ug/L*	*25.00*		*104*	*80-124*			
Surrogate: Dibromofluoromethane	*25.2*		*ug/L*	*25.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*25.1*		*ug/L*	*25.00*		*101*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0458 - 5035										
Blank (P5B0458-BLK1)				Prepared & Analyzed: 02/24/15						
1,1,1,2-Tetrachloroethane	BRL	0.25	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.25	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.25	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.25	mg/kg wet							
1,1-Dichloroethane	BRL	0.25	mg/kg wet							
1,1-Dichloroethylene	BRL	0.25	mg/kg wet							
1,1-Dichloropropylene	BRL	0.25	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.50	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.25	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.50	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.25	mg/kg wet							
1,2-Dibromoethane	BRL	0.25	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.25	mg/kg wet							
1,2-Dichloroethane	BRL	0.25	mg/kg wet							
1,2-Dichloropropane	BRL	0.25	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.25	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.25	mg/kg wet							
1,3-Dichloropropane	BRL	0.25	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.25	mg/kg wet							
2,2-Dichloropropane	BRL	0.25	mg/kg wet							
2-Chlorotoluene	BRL	0.25	mg/kg wet							
4-Chlorotoluene	BRL	0.25	mg/kg wet							
4-Isopropyltoluene	BRL	0.25	mg/kg wet							
Acetone	BRL	1.0	mg/kg wet							
Benzene	BRL	0.25	mg/kg wet							
Bromobenzene	BRL	0.25	mg/kg wet							
Bromochloromethane	BRL	0.25	mg/kg wet							
Bromodichloromethane	BRL	0.25	mg/kg wet							
Bromoform	BRL	0.25	mg/kg wet							
Bromomethane	BRL	0.50	mg/kg wet							
Carbon Tetrachloride	BRL	0.25	mg/kg wet							
Chlorobenzene	BRL	0.25	mg/kg wet							
Chloroethane	BRL	0.50	mg/kg wet							
Chloroform	BRL	0.25	mg/kg wet							
Chloromethane	BRL	0.50	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.25	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.25	mg/kg wet							
Dibromochloromethane	BRL	0.25	mg/kg wet							
Dichlorodifluoromethane	BRL	0.50	mg/kg wet							
Ethanol	BRL	12	mg/kg wet							
Ethylbenzene	BRL	0.25	mg/kg wet							
Isopropyl Ether	BRL	0.25	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.25	mg/kg wet							
m,p-Xylenes	BRL	0.50	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	1.0	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	1.0	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0458 - 5035										
Blank (P5B0458-BLK1)			Prepared & Analyzed: 02/24/15							
Methyl Isobutyl Ketone	BRL	1.0	mg/kg wet							
Methylene Chloride	BRL	0.25	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.25	mg/kg wet							
Naphthalene	BRL	0.50	mg/kg wet							
n-Butylbenzene	BRL	0.25	mg/kg wet							
n-Propylbenzene	BRL	0.25	mg/kg wet							
o-Xylene	BRL	0.25	mg/kg wet							
sec-Butylbenzene	BRL	0.25	mg/kg wet							
Styrene	BRL	0.25	mg/kg wet							
tert-Amyl Alcohol	BRL	20	mg/kg wet							
tert-Amyl Methyl Ether	BRL	5.0	mg/kg wet							
tert-Butyl Alcohol	BRL	10	mg/kg wet							
tert-Butyl Formate	BRL	20	mg/kg wet							
tert-Butylbenzene	BRL	0.25	mg/kg wet							
tert-Butyl Ethyl Ether	BRL	5.0	mg/kg wet							
Tetrachloroethylene	BRL	0.25	mg/kg wet							
Toluene	BRL	0.25	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.25	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.25	mg/kg wet							
Trichloroethylene	BRL	0.25	mg/kg wet							
Trichlorofluoromethane	BRL	0.50	mg/kg wet							
Vinyl acetate	BRL	1.0	mg/kg wet							
Vinyl chloride	BRL	0.50	mg/kg wet							
Xylenes, total	BRL	0.75	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*1.04*		*mg/kg wet*	*1.000*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*0.941*		*mg/kg wet*	*1.000*		*94*	*70-130*			
Surrogate: Toluene-d8	*0.916*		*mg/kg wet*	*1.000*		*92*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0458 - 5035										
LCS (P5B0458-BS1)				Prepared & Analyzed: 02/24/15						
1,1,1,2-Tetrachloroethane	0.934	0.25	mg/kg wet	1.000		93	72-115			
1,1,1-Trichloroethane	0.946	0.25	mg/kg wet	1.000		95	72-123			
1,1,2,2-Tetrachloroethane	0.948	0.25	mg/kg wet	1.000		95	62-127			
1,1,2-Trichloroethane	0.942	0.25	mg/kg wet	1.000		94	73-123			
1,1-Dichloroethane	0.928	0.25	mg/kg wet	1.000		93	73-119			
1,1-Dichloroethylene	0.976	0.25	mg/kg wet	1.000		98	59-157			
1,1-Dichloropropylene	1.03	0.25	mg/kg wet	1.000		103	70-129			
1,2,3-Trichlorobenzene	1.10	0.50	mg/kg wet	1.000		110	59-133			
1,2,3-Trichloropropane	0.851	0.25	mg/kg wet	1.000		85	52-137			
1,2,4-Trichlorobenzene	1.09	0.50	mg/kg wet	1.000		109	66-123			
1,2,4-Trimethylbenzene	0.966	0.25	mg/kg wet	1.000		97	69-126			
1,2-Dibromoethane	0.936	0.25	mg/kg wet	1.000		94	69-127			
1,2-Dichlorobenzene	0.998	0.25	mg/kg wet	1.000		100	70-121			
1,2-Dichloroethane	0.888	0.25	mg/kg wet	1.000		89	69-125			
1,2-Dichloropropane	0.988	0.25	mg/kg wet	1.000		99	75-124			
1,3,5-Trimethylbenzene	0.983	0.25	mg/kg wet	1.000		98	69-124			
1,3-Dichlorobenzene	0.994	0.25	mg/kg wet	1.000		99	70-121			
1,3-Dichloropropane	0.898	0.25	mg/kg wet	1.000		90	70-124			
1,4-Dichlorobenzene	1.01	0.25	mg/kg wet	1.000		101	71-119			
2,2-Dichloropropane	0.982	0.25	mg/kg wet	1.000		98	46-154			
2-Chlorotoluene	0.960	0.25	mg/kg wet	1.000		96	70-121			
4-Chlorotoluene	0.959	0.25	mg/kg wet	1.000		96	72-126			
4-Isopropyltoluene	0.900	0.25	mg/kg wet	1.000		90	71-126			
Acetone	1.68	1.0	mg/kg wet	2.000		84	12-196			
Benzene	1.06	0.25	mg/kg wet	1.000		106	74-123			
Bromobenzene	0.958	0.25	mg/kg wet	1.000		96	66-122			
Bromochloromethane	0.999	0.25	mg/kg wet	1.000		100	73-128			
Bromodichloromethane	0.896	0.25	mg/kg wet	1.000		90	76-123			
Bromoform	0.980	0.25	mg/kg wet	1.000		98	71-124			
Bromomethane	1.18	0.50	mg/kg wet	1.000		118	56-145			
Carbon Tetrachloride	0.968	0.25	mg/kg wet	1.000		97	67-140			
Chlorobenzene	0.971	0.25	mg/kg wet	1.000		97	74-121			
Chloroethane	1.06	0.50	mg/kg wet	1.000		106	64-142			
Chloroform	0.876	0.25	mg/kg wet	1.000		88	75-125			
Chloromethane	1.01	0.50	mg/kg wet	1.000		101	54-132			
cis-1,2-Dichloroethylene	0.965	0.25	mg/kg wet	1.000		96	68-132			
cis-1,3-Dichloropropylene	0.997	0.25	mg/kg wet	1.000		100	75-128			
Dibromochloromethane	0.838	0.25	mg/kg wet	1.000		84	71-121			
Dichlorodifluoromethane	1.00	0.50	mg/kg wet	1.000		100	39-178			
Ethanol	27.8	12	mg/kg wet	25.00		111	70-130			
Ethylbenzene	0.959	0.25	mg/kg wet	1.000		96	69-125			
Isopropyl Ether	0.780	0.25	mg/kg wet	1.000		78	77-123			
Isopropylbenzene (Cumene)	0.995	0.25	mg/kg wet	1.000		100	68-129			
m,p-Xylenes	1.92	0.50	mg/kg wet	2.000		96	64-125			
Methyl Butyl Ketone (2-Hexanone)	0.763	1.0	mg/kg wet	1.000		76	54-139			J
Methyl Ethyl Ketone (2-Butanone)	0.738	1.0	mg/kg wet	1.000		74	34-165			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0458 - 5035										
LCS (P5B0458-BS1)				Prepared & Analyzed: 02/24/15						
Methyl Isobutyl Ketone	0.810	1.0	mg/kg wet	1.000		81	63-130			J
Methylene Chloride	0.902	0.25	mg/kg wet	1.000		90	65-135			
Methyl-tert-Butyl Ether	0.964	0.25	mg/kg wet	1.000		96	62-123			
Naphthalene	0.863	0.50	mg/kg wet	1.000		86	58-129			
n-Butylbenzene	0.940	0.25	mg/kg wet	1.000		94	71-126			
n-Propylbenzene	0.974	0.25	mg/kg wet	1.000		97	68-128			
o-Xylene	0.974	0.25	mg/kg wet	1.000		97	69-121			
sec-Butylbenzene	0.918	0.25	mg/kg wet	1.000		92	71-128			
Styrene	1.02	0.25	mg/kg wet	1.000		102	67-129			
tert-Amyl Alcohol	1.97	20	mg/kg wet	1.000		197	70-130			LH, J
tert-Amyl Methyl Ether	1.92	5.0	mg/kg wet	2.000		96	70-130			J
tert-Butyl Alcohol	1.88	10	mg/kg wet	2.000		94	70-130			J
tert-Butyl Formate	1.33	20	mg/kg wet	2.000		66	70-130			A, J
tert-Butylbenzene	0.938	0.25	mg/kg wet	1.000		94	71-126			
tert-Butyl Ethyl Ether	1.88	5.0	mg/kg wet	2.000		94	70-130			J
Tetrachloroethylene	1.03	0.25	mg/kg wet	1.000		103	71-124			
Toluene	1.05	0.25	mg/kg wet	1.000		105	74-122			
trans-1,2-Dichloroethylene	0.980	0.25	mg/kg wet	1.000		98	69-129			
trans-1,3-Dichloropropylene	0.955	0.25	mg/kg wet	1.000		96	74-127			
Trichloroethylene	1.03	0.25	mg/kg wet	1.000		103	68-133			
Trichlorofluoromethane	1.09	0.50	mg/kg wet	1.000		109	60-138			
Vinyl acetate	0.894	1.0	mg/kg wet	1.000		89	14-179			J
Vinyl chloride	1.01	0.50	mg/kg wet	1.000		101	69-135			
Xylenes, total	2.90	0.75	mg/kg wet	3.000		97	74-126			
Surrogate: 4-Bromofluorobenzene	*1.18*		*mg/kg wet*	*1.000*		*118*	*70-130*			
Surrogate: Dibromofluoromethane	*1.10*		*mg/kg wet*	*1.000*		*110*	*70-130*			
Surrogate: Toluene-d8	*1.08*		*mg/kg wet*	*1.000*		*108*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0458 - 5035										
LCS Dup (P5B0458-BSD1)				Prepared & Analyzed: 02/24/15						
1,1,1,2-Tetrachloroethane	0.904	0.25	mg/kg wet	1.000		90	72-115	3	20	
1,1,1-Trichloroethane	0.868	0.25	mg/kg wet	1.000		87	72-123	9	20	
1,1,2,2-Tetrachloroethane	0.932	0.25	mg/kg wet	1.000		93	62-127	2	20	
1,1,2-Trichloroethane	0.938	0.25	mg/kg wet	1.000		94	73-123	0.4	20	
1,1-Dichloroethane	0.910	0.25	mg/kg wet	1.000		91	73-119	2	20	
1,1-Dichloroethylene	0.922	0.25	mg/kg wet	1.000		92	59-157	6	20	
1,1-Dichloropropylene	0.972	0.25	mg/kg wet	1.000		97	70-129	5	20	
1,2,3-Trichlorobenzene	1.08	0.50	mg/kg wet	1.000		108	59-133	1	20	
1,2,3-Trichloropropane	0.868	0.25	mg/kg wet	1.000		87	52-137	2	20	
1,2,4-Trichlorobenzene	1.08	0.50	mg/kg wet	1.000		108	66-123	1	20	
1,2,4-Trimethylbenzene	0.940	0.25	mg/kg wet	1.000		94	69-126	3	20	
1,2-Dibromoethane	0.956	0.25	mg/kg wet	1.000		96	69-127	2	20	
1,2-Dichlorobenzene	0.986	0.25	mg/kg wet	1.000		99	70-121	1	20	
1,2-Dichloroethane	0.864	0.25	mg/kg wet	1.000		86	69-125	3	20	
1,2-Dichloropropane	0.902	0.25	mg/kg wet	1.000		90	75-124	9	20	
1,3,5-Trimethylbenzene	0.940	0.25	mg/kg wet	1.000		94	69-124	5	20	
1,3-Dichlorobenzene	0.960	0.25	mg/kg wet	1.000		96	70-121	3	20	
1,3-Dichloropropane	0.900	0.25	mg/kg wet	1.000		90	70-124	0.3	20	
1,4-Dichlorobenzene	0.982	0.25	mg/kg wet	1.000		98	71-119	2	20	
2,2-Dichloropropane	0.905	0.25	mg/kg wet	1.000		90	46-154	8	20	
2-Chlorotoluene	0.922	0.25	mg/kg wet	1.000		92	70-121	4	20	
4-Chlorotoluene	0.911	0.25	mg/kg wet	1.000		91	72-126	5	20	
4-Isopropyltoluene	0.866	0.25	mg/kg wet	1.000		87	71-126	4	20	
Acetone	1.78	1.0	mg/kg wet	2.000		89	12-196	6	20	
Benzene	1.01	0.25	mg/kg wet	1.000		101	74-123	5	20	
Bromobenzene	0.918	0.25	mg/kg wet	1.000		92	66-122	4	20	
Bromochloromethane	0.999	0.25	mg/kg wet	1.000		100	73-128	0	20	
Bromodichloromethane	0.844	0.25	mg/kg wet	1.000		84	76-123	6	20	
Bromoform	0.948	0.25	mg/kg wet	1.000		95	71-124	3	20	
Bromomethane	1.11	0.50	mg/kg wet	1.000		111	56-145	6	20	
Carbon Tetrachloride	0.894	0.25	mg/kg wet	1.000		89	67-140	8	20	
Chlorobenzene	0.940	0.25	mg/kg wet	1.000		94	74-121	3	20	
Chloroethane	1.01	0.50	mg/kg wet	1.000		101	64-142	4	20	
Chloroform	0.858	0.25	mg/kg wet	1.000		86	75-125	2	20	
Chloromethane	0.930	0.50	mg/kg wet	1.000		93	54-132	8	20	
cis-1,2-Dichloroethylene	0.917	0.25	mg/kg wet	1.000		92	68-132	5	20	
cis-1,3-Dichloropropylene	0.938	0.25	mg/kg wet	1.000		94	75-128	6	20	
Dibromochloromethane	0.826	0.25	mg/kg wet	1.000		83	71-121	1	20	
Dichlorodifluoromethane	0.940	0.50	mg/kg wet	1.000		94	39-178	6	20	
Ethanol	27.3	12	mg/kg wet	25.00		109	70-130	2	20	
Ethylbenzene	0.916	0.25	mg/kg wet	1.000		92	69-125	5	20	
Isopropyl Ether	0.754	0.25	mg/kg wet	1.000		75	77-123	3	20	L2
Isopropylbenzene (Cumene)	0.947	0.25	mg/kg wet	1.000		95	68-129	5	20	
m,p-Xylenes	1.85	0.50	mg/kg wet	2.000		92	64-125	4	20	
Methyl Butyl Ketone (2-Hexanone)	0.788	1.0	mg/kg wet	1.000		79	54-139	3	20	J
Methyl Ethyl Ketone (2-Butanone)	0.812	1.0	mg/kg wet	1.000		81	34-165	10	20	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0458 - 5035										
LCS Dup (P5B0458-BSD1)			Prepared & Analyzed: 02/24/15							
Methyl Isobutyl Ketone	0.810	1.0	mg/kg wet	1.000		81	63-130	0.06	20	J
Methylene Chloride	0.859	0.25	mg/kg wet	1.000		86	65-135	5	20	
Methyl-tert-Butyl Ether	0.907	0.25	mg/kg wet	1.000		91	62-123	6	20	
Naphthalene	0.883	0.50	mg/kg wet	1.000		88	58-129	2	20	
n-Butylbenzene	0.898	0.25	mg/kg wet	1.000		90	71-126	5	20	
n-Propylbenzene	0.922	0.25	mg/kg wet	1.000		92	68-128	6	20	
o-Xylene	0.944	0.25	mg/kg wet	1.000		94	69-121	3	20	
sec-Butylbenzene	0.890	0.25	mg/kg wet	1.000		89	71-128	3	20	
Styrene	1.00	0.25	mg/kg wet	1.000		100	67-129	2	20	
tert-Amyl Alcohol	1.80	20	mg/kg wet	1.000		180	70-130	9	20	LH, J
tert-Amyl Methyl Ether	1.85	5.0	mg/kg wet	2.000		92	70-130	4	20	J
tert-Butyl Alcohol	1.82	10	mg/kg wet	2.000		91	70-130	3	20	J
tert-Butyl Formate	1.28	20	mg/kg wet	2.000		64	70-130	4	20	A, J
tert-Butylbenzene	0.886	0.25	mg/kg wet	1.000		89	71-126	6	20	
tert-Butyl Ethyl Ether	1.82	5.0	mg/kg wet	2.000		91	70-130	3	20	J
Tetrachloroethylene	1.01	0.25	mg/kg wet	1.000		101	71-124	2	20	
Toluene	0.998	0.25	mg/kg wet	1.000		100	74-122	5	20	
trans-1,2-Dichloroethylene	0.928	0.25	mg/kg wet	1.000		93	69-129	6	20	
trans-1,3-Dichloropropylene	0.904	0.25	mg/kg wet	1.000		90	74-127	5	20	
Trichloroethylene	0.927	0.25	mg/kg wet	1.000		93	68-133	10	20	
Trichlorofluoromethane	1.03	0.50	mg/kg wet	1.000		103	60-138	6	20	
Vinyl acetate	0.870	1.0	mg/kg wet	1.000		87	14-179	3	20	J
Vinyl chloride	0.928	0.50	mg/kg wet	1.000		93	69-135	8	20	
Xylenes, total	2.79	0.75	mg/kg wet	3.000		93	74-126	4	200	
Surrogate: 4-Bromofluorobenzene	*1.14*		*mg/kg wet*	*1.000*		*114*	*70-130*			
Surrogate: Dibromofluoromethane	*1.09*		*mg/kg wet*	*1.000*		*109*	*70-130*			
Surrogate: Toluene-d8	*1.07*		*mg/kg wet*	*1.000*		*107*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
Blank (P5B0420-BLK1)				Prepared: 02/23/15 Analyzed: 02/24/15						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
Blank (P5B0420-BLK1)				Prepared: 02/23/15 Analyzed: 02/24/15						
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*3.33*		*mg/kg wet*	*3.333*		*100*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.58*		*mg/kg wet*	*1.667*		*95*	*44-115*			
Surrogate: 2-Fluorophenol	*3.05*		*mg/kg wet*	*3.333*		*92*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.43*		*mg/kg wet*	*1.667*		*86*	*37-122*			
Surrogate: Phenol-d5	*2.90*		*mg/kg wet*	*3.333*		*87*	*34-121*			
Surrogate: Terphenyl-d14	*1.75*		*mg/kg wet*	*1.667*		*105*	*54-127*			
LCS (P5B0420-BS1)				Prepared: 02/23/15 Analyzed: 02/24/15						
1,2,4-Trichlorobenzene	1.52	0.33	mg/kg wet	1.667		91	34-118			
1,2-Dichlorobenzene	1.39	0.33	mg/kg wet	1.667		83	33-117			
1,3-Dichlorobenzene	1.32	0.33	mg/kg wet	1.667		79	30-115			
1,4-Dichlorobenzene	1.36	0.33	mg/kg wet	1.667		82	31-115			
1-Methylnaphthalene	1.46	0.33	mg/kg wet	1.667		88	40-119			
2,4,6-Trichlorophenol	1.72	0.33	mg/kg wet	1.667		103	39-126			
2,4-Dichlorophenol	1.61	0.33	mg/kg wet	1.667		97	40-122			
2,4-Dimethylphenol	1.53	0.33	mg/kg wet	1.667		92	30-127			
2,4-Dinitrophenol	1.78	0.33	mg/kg wet	1.667		107	27-129			
2,4-Dinitrotoluene	1.71	0.33	mg/kg wet	1.667		102	48-126			
2,6-Dinitrotoluene	1.73	0.33	mg/kg wet	1.667		104	46-124			
2-Chloronaphthalene	1.98	0.33	mg/kg wet	1.667		119	41-114			L1
2-Chlorophenol	1.44	0.33	mg/kg wet	1.667		87	34-121			
2-Methylnaphthalene	1.51	0.33	mg/kg wet	1.667		90	38-122			
2-Methylphenol	1.46	0.33	mg/kg wet	1.667		87	32-122			
2-Nitrophenol	1.44	0.33	mg/kg wet	1.667		86	36-123			
3,3'-Dichlorobenzidine	1.02	0.33	mg/kg wet	1.667		61	22-121			
3/4-Methylphenol	1.51	0.33	mg/kg wet	1.667		90	34-119			
4,6-Dinitro-2-methylphenol	1.68	0.33	mg/kg wet	1.667		101	29-132			
4-Bromophenyl phenyl ether	1.54	0.33	mg/kg wet	1.667		93	46-124			
4-Chloro-3-methylphenol	1.59	0.33	mg/kg wet	1.667		95	45-122			
4-Chloroaniline	1.17	0.33	mg/kg wet	1.667		70	17-106			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
LCS (P5B0420-BS1)				Prepared: 02/23/15 Analyzed: 02/24/15						
4-Chlorophenyl phenyl ether	1.60	0.33	mg/kg wet	1.667		96	45-121			
4-Nitrophenol	1.74	0.33	mg/kg wet	1.667		104	30-132			
Acenaphthene	1.57	0.33	mg/kg wet	1.667		94	40-123			
Acenaphthylene	1.59	0.33	mg/kg wet	1.667		95	32-132			
Anthracene	1.52	0.33	mg/kg wet	1.667		91	47-123			
Azobenzene	1.62	0.33	mg/kg wet	1.667		97	39-125			
Benzo(a)anthracene	1.54	0.33	mg/kg wet	1.667		92	49-126			
Benzo(a)pyrene	1.18	0.33	mg/kg wet	1.667		71	45-129			
Benzo(b)fluoranthene	1.15	0.33	mg/kg wet	1.667		69	45-132			
Benzo(g,h,i)perylene	1.21	0.33	mg/kg wet	1.667		72	43-134			
Benzo(k)fluoranthene	1.22	0.33	mg/kg wet	1.667		73	47-132			
Benzoic Acid	1.83	0.33	mg/kg wet	1.667		110	10-83			LH
Benzyl alcohol	1.34	0.33	mg/kg wet	1.667		81	29-122			
bis(2-Chloroethoxy)methane	1.45	0.33	mg/kg wet	1.667		87	36-121			
Bis(2-Chloroethyl)ether	1.25	0.33	mg/kg wet	1.667		75	31-120			
Bis(2-chloroisopropyl)ether	1.31	0.33	mg/kg wet	1.667		79	33-131			
Bis(2-Ethylhexyl)phthalate	1.46	0.33	mg/kg wet	1.667		88	51-133			
Butyl benzyl phthalate	1.41	0.33	mg/kg wet	1.667		85	48-132			
Chrysene	1.57	0.33	mg/kg wet	1.667		94	50-124			
Dibenzo(a,h)anthracene	1.16	0.33	mg/kg wet	1.667		70	45-134			
Dibenzofuran	1.44	0.33	mg/kg wet	1.667		86	44-120			
Diethyl phthalate	1.55	0.33	mg/kg wet	1.667		93	50-124			
Dimethyl phthalate	1.58	0.33	mg/kg wet	1.667		95	48-124			
Di-n-butyl phthalate	1.46	0.33	mg/kg wet	1.667		87	51-128			
Di-n-octyl phthalate	1.14	0.33	mg/kg wet	1.667		68	45-140			
Fluoranthene	1.55	0.33	mg/kg wet	1.667		93	50-127			
Fluorene	1.57	0.33	mg/kg wet	1.667		94	43-125			
Hexachlorobenzene	1.65	0.33	mg/kg wet	1.667		99	45-122			
Hexachlorobutadiene	1.48	0.33	mg/kg wet	1.667		89	32-123			
Hexachlorocyclopentadiene	1.62	0.33	mg/kg wet	1.667		97	32-117			
Hexachloroethane	1.34	0.33	mg/kg wet	1.667		80	28-117			
Indeno(1,2,3-cd)pyrene	1.24	0.33	mg/kg wet	1.667		75	45-133			
Isophorone	1.55	0.33	mg/kg wet	1.667		93	30-122			
Naphthalene	1.41	0.33	mg/kg wet	1.667		84	35-123			
Nitrobenzene	1.48	0.33	mg/kg wet	1.667		89	34-122			
N-Nitroso-di-n-propylamine	1.44	0.33	mg/kg wet	1.667		86	36-120			
N-Nitrosodiphenylamine	1.56	0.33	mg/kg wet	1.667		94	38-127			
Pentachlorophenol	1.72	0.33	mg/kg wet	1.667		103	25-133			
Phenanthrene	1.52	0.33	mg/kg wet	1.667		91	50-121			
Phenol	1.47	0.33	mg/kg wet	1.667		88	34-121			
Pyrene	1.53	0.33	mg/kg wet	1.667		92	47-127			
Surrogate: 2,4,6-Tribromophenol	*3.63*		*mg/kg wet*	*3.333*		*109*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.67*		*mg/kg wet*	*1.667*		*100*	*44-115*			
Surrogate: 2-Fluorophenol	*3.17*		*mg/kg wet*	*3.333*		*95*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.51*		*mg/kg wet*	*1.667*		*91*	*37-122*			
Surrogate: Phenol-d5	*3.01*		*mg/kg wet*	*3.333*		*90*	*34-121*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
LCS (P5B0420-BS1)				Prepared: 02/23/15 Analyzed: 02/24/15						
Surrogate: Terphenyl-d14	*1.75*		*mg/kg wet*	*1.667*		*105*	*54-127*			
LCS Dup (P5B0420-BSD1)				Prepared: 02/23/15 Analyzed: 02/24/15						
1,2,4-Trichlorobenzene	1.48	0.33	mg/kg wet	1.667		89	34-118	3	20	
1,2-Dichlorobenzene	1.37	0.33	mg/kg wet	1.667		82	33-117	1	20	
1,3-Dichlorobenzene	1.29	0.33	mg/kg wet	1.667		77	30-115	2	20	
1,4-Dichlorobenzene	1.33	0.33	mg/kg wet	1.667		80	31-115	3	20	
1-Methylnaphthalene	1.40	0.33	mg/kg wet	1.667		84	40-119	5	20	
2,4,6-Trichlorophenol	1.68	0.33	mg/kg wet	1.667		101	39-126	2	20	
2,4-Dichlorophenol	1.60	0.33	mg/kg wet	1.667		96	40-122	0.4	20	
2,4-Dimethylphenol	1.52	0.33	mg/kg wet	1.667		91	30-127	0.1	20	
2,4-Dinitrophenol	1.71	0.33	mg/kg wet	1.667		103	27-129	4	20	
2,4-Dinitrotoluene	1.63	0.33	mg/kg wet	1.667		98	48-126	5	20	
2,6-Dinitrotoluene	1.68	0.33	mg/kg wet	1.667		100	46-124	3	20	
2-Chloronaphthalene	1.87	0.33	mg/kg wet	1.667		112	41-114	6	20	
2-Chlorophenol	1.39	0.33	mg/kg wet	1.667		83	34-121	4	20	
2-Methylnaphthalene	1.47	0.33	mg/kg wet	1.667		88	38-122	2	20	
2-Methylphenol	1.47	0.33	mg/kg wet	1.667		88	32-122	0.7	20	
2-Nitrophenol	1.46	0.33	mg/kg wet	1.667		88	36-123	2	20	
3,3'-Dichlorobenzidine	1.02	0.33	mg/kg wet	1.667		61	22-121	0.7	20	
3/4-Methylphenol	1.50	0.33	mg/kg wet	1.667		90	34-119	0.6	20	
4,6-Dinitro-2-methylphenol	1.62	0.33	mg/kg wet	1.667		97	29-132	4	20	
4-Bromophenyl phenyl ether	1.50	0.33	mg/kg wet	1.667		90	46-124	3	20	
4-Chloro-3-methylphenol	1.59	0.33	mg/kg wet	1.667		95	45-122	0.1	20	
4-Chloroaniline	1.19	0.33	mg/kg wet	1.667		71	17-106	2	20	
4-Chlorophenyl phenyl ether	1.54	0.33	mg/kg wet	1.667		93	45-121	4	20	
4-Nitrophenol	1.65	0.33	mg/kg wet	1.667		99	30-132	6	20	
Acenaphthene	1.52	0.33	mg/kg wet	1.667		91	40-123	3	20	
Acenaphthylene	1.52	0.33	mg/kg wet	1.667		91	32-132	4	20	
Anthracene	1.51	0.33	mg/kg wet	1.667		91	47-123	0.6	20	
Azobenzene	1.62	0.33	mg/kg wet	1.667		97	39-125	0.5	20	
Benzo(a)anthracene	1.49	0.33	mg/kg wet	1.667		90	49-126	3	20	
Benzo(a)pyrene	1.14	0.33	mg/kg wet	1.667		68	45-129	3	20	
Benzo(b)fluoranthene	1.13	0.33	mg/kg wet	1.667		68	45-132	2	20	
Benzo(g,h,i)perylene	1.18	0.33	mg/kg wet	1.667		71	43-134	3	20	
Benzo(k)fluoranthene	1.16	0.33	mg/kg wet	1.667		70	47-132	5	20	
Benzoic Acid	1.83	0.33	mg/kg wet	1.667		110	10-83	0.09	20	LH
Benzyl alcohol	1.30	0.33	mg/kg wet	1.667		78	29-122	3	20	
bis(2-Chloroethoxy)methane	1.43	0.33	mg/kg wet	1.667		86	36-121	2	20	
Bis(2-Chloroethyl)ether	1.26	0.33	mg/kg wet	1.667		76	31-120	0.4	20	
Bis(2-chloroisopropyl)ether	1.30	0.33	mg/kg wet	1.667		78	33-131	0.5	20	
Bis(2-Ethylhexyl)phthalate	1.44	0.33	mg/kg wet	1.667		87	51-133	1	20	
Butyl benzyl phthalate	1.43	0.33	mg/kg wet	1.667		86	48-132	1	20	
Chrysene	1.57	0.33	mg/kg wet	1.667		94	50-124	0.5	20	
Dibenzo(a,h)anthracene	1.20	0.33	mg/kg wet	1.667		72	45-134	3	20	
Dibenzofuran	1.37	0.33	mg/kg wet	1.667		82	44-120	5	20	
Diethyl phthalate	1.51	0.33	mg/kg wet	1.667		91	50-124	3	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
LCS Dup (P5B0420-BSD1)				Prepared: 02/23/15 Analyzed: 02/24/15						
Dimethyl phthalate	1.52	0.33	mg/kg wet	1.667		91	48-124	4	20	
Di-n-butyl phthalate	1.44	0.33	mg/kg wet	1.667		86	51-128	0.9	20	
Di-n-octyl phthalate	1.11	0.33	mg/kg wet	1.667		67	45-140	2	20	
Fluoranthene	1.54	0.33	mg/kg wet	1.667		92	50-127	1	20	
Fluorene	1.53	0.33	mg/kg wet	1.667		92	43-125	3	20	
Hexachlorobenzene	1.62	0.33	mg/kg wet	1.667		97	45-122	2	20	
Hexachlorobutadiene	1.47	0.33	mg/kg wet	1.667		88	32-123	0.7	20	
Hexachlorocyclopentadiene	1.51	0.33	mg/kg wet	1.667		91	32-117	7	20	
Hexachloroethane	1.31	0.33	mg/kg wet	1.667		78	28-117	2	20	
Indeno(1,2,3-cd)pyrene	1.24	0.33	mg/kg wet	1.667		74	45-133	0.3	20	
Isophorone	1.53	0.33	mg/kg wet	1.667		92	30-122	2	20	
Naphthalene	1.39	0.33	mg/kg wet	1.667		83	35-123	1	20	
Nitrobenzene	1.42	0.33	mg/kg wet	1.667		85	34-122	5	20	
N-Nitroso-di-n-propylamine	1.37	0.33	mg/kg wet	1.667		82	36-120	5	20	
N-Nitrosodiphenylamine	1.51	0.33	mg/kg wet	1.667		91	38-127	3	20	
Pentachlorophenol	1.68	0.33	mg/kg wet	1.667		101	25-133	2	20	
Phenanthrene	1.50	0.33	mg/kg wet	1.667		90	50-121	2	20	
Phenol	1.42	0.33	mg/kg wet	1.667		85	34-121	3	20	
Pyrene	1.54	0.33	mg/kg wet	1.667		92	47-127	0.5	20	
Surrogate: 2,4,6-Tribromophenol	*3.57*		*mg/kg wet*	*3.333*		*107*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.59*		*mg/kg wet*	*1.667*		*95*	*44-115*			
Surrogate: 2-Fluorophenol	*3.12*		*mg/kg wet*	*3.333*		*94*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.49*		*mg/kg wet*	*1.667*		*90*	*37-122*			
Surrogate: Phenol-d5	*3.00*		*mg/kg wet*	*3.333*		*90*	*34-121*			
Surrogate: Terphenyl-d14	*1.72*		*mg/kg wet*	*1.667*		*103*	*54-127*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0436 - MADEP VPH (S)										
Blank (P5B0436-BLK1)				Prepared & Analyzed: 02/24/15						
C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	*10.1*		*mg/kg wet*	*10.67*		*95*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*10.1*		*mg/kg wet*	*10.67*		*95*	*70-130*			
LCS (P5B0436-BS1)				Prepared & Analyzed: 02/24/15						
C5-C8 Aliphatics	34.0	5.0	mg/kg wet	32.00		106	70-130			
C9-C10 Aromatics	10.9	5.0	mg/kg wet	10.67		102	70-130			
C9-C12 Aliphatic	35.9	5.0	mg/kg wet	32.00		112	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*11.0*		*mg/kg wet*	*10.67*		*103*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*10.8*		*mg/kg wet*	*10.67*		*101*	*70-130*			
LCS Dup (P5B0436-BSD1)				Prepared & Analyzed: 02/24/15						
C5-C8 Aliphatics	33.5	5.0	mg/kg wet	32.00		105	70-130	2	50	
C9-C10 Aromatics	10.6	5.0	mg/kg wet	10.67		100	70-130	2	50	
C9-C12 Aliphatic	36.1	5.0	mg/kg wet	32.00		113	70-130	0.6	50	
Surrogate: 2,5-Dibromotoluene (PID)	*10.8*		*mg/kg wet*	*10.67*		*101*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*10.6*		*mg/kg wet*	*10.67*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0442 - 5035										
Blank (P5B0442-BLK1)				Prepared & Analyzed: 02/25/15						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*4.80*		*mg/kg wet*	*5.000*		*96*	*50-137*			
LCS (P5B0442-BS1)				Prepared & Analyzed: 02/25/15						
Gasoline Range Organics	55.8	5.0	mg/kg wet	50.00		112	41-138			
Surrogate: a,a,a-Trifluorotoluene	*4.90*		*mg/kg wet*	*5.000*		*98*	*50-137*			
LCS Dup (P5B0442-BSD1)				Prepared & Analyzed: 02/25/15						
Gasoline Range Organics	58.1	5.0	mg/kg wet	50.00		116	41-138	4	20	
Surrogate: a,a,a-Trifluorotoluene	*4.65*		*mg/kg wet*	*5.000*		*93*	*50-137*			
Matrix Spike (P5B0442-MS1)		**Source: 5020409-01**		Prepared & Analyzed: 02/25/15						
Gasoline Range Organics	71.4	6.0	mg/kg dry	60.34	BRL	118	41-138			
Surrogate: a,a,a-Trifluorotoluene	*5.61*		*mg/kg dry*	*6.034*		*93*	*50-137*			
Matrix Spike Dup (P5B0442-MSD1)		**Source: 5020409-01**		Prepared & Analyzed: 02/25/15						
Gasoline Range Organics	73.7	5.9	mg/kg dry	59.29	BRL	124	41-138	3	34	
Surrogate: a,a,a-Trifluorotoluene	*5.75*		*mg/kg dry*	*5.929*		*97*	*50-137*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0437 - 3546										
Blank (P5B0437-BLK1)				Prepared: 02/24/15 Analyzed: 02/25/15						
C9-C18 Aliphatics	BRL	10	mg/kg wet							
C19-C36 Aliphatics	BRL	10	mg/kg wet							
C11-C22 Aromatics	BRL	10	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.37*		*mg/kg wet*	*1.994*		*69*	*40-140*			
Surrogate: o-Terphenyl	*1.59*		*mg/kg wet*	*1.994*		*80*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.42*		*mg/kg wet*	*3.988*		*86*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.01*		*mg/kg wet*	*3.988*		*76*	*40-140*			
LCS (P5B0437-BS1)				Prepared: 02/24/15 Analyzed: 02/25/15						
C9-C18 Aliphatics	37.4	10	mg/kg wet	60.00		62	40-140			
C19-C36 Aliphatics	67.4	10	mg/kg wet	80.00		84	40-140			
C11-C22 Aromatics	136	10	mg/kg wet	170.0		80	40-140			
Surrogate: 1-Chlorooctadecane	*1.59*		*mg/kg wet*	*2.000*		*79*	*40-140*			
Surrogate: o-Terphenyl	*1.73*		*mg/kg wet*	*2.000*		*87*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.91*		*mg/kg wet*	*4.000*		*98*	*40-140*			
Surrogate: 2-Bromonaphthalene	*4.01*		*mg/kg wet*	*4.000*		*100*	*40-140*			
LCS Dup (P5B0437-BSD1)				Prepared: 02/24/15 Analyzed: 02/25/15						
C9-C18 Aliphatics	39.7	10	mg/kg wet	59.94		66	40-140	6	50	
C19-C36 Aliphatics	76.4	10	mg/kg wet	79.92		96	40-140	13	50	
C11-C22 Aromatics	142	10	mg/kg wet	169.8		84	40-140	4	50	
Surrogate: 1-Chlorooctadecane	*1.74*		*mg/kg wet*	*1.998*		*87*	*40-140*			
Surrogate: o-Terphenyl	*1.80*		*mg/kg wet*	*1.998*		*90*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.65*		*mg/kg wet*	*3.996*		*91*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.77*		*mg/kg wet*	*3.996*		*94*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0517 - 3546										
Blank (P5B0517-BLK1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*0.774*		*mg/kg wet*	*1.333*		*58*	*49-124*			
LCS (P5B0517-BS1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	58.1	7.0	mg/kg wet	66.64		87	55-109			
Surrogate: o-Terphenyl	*1.24*		*mg/kg wet*	*1.333*		*93*	*49-124*			
LCS Dup (P5B0517-BSD1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	66.5	7.0	mg/kg wet	66.64		100	55-109	14	20	
Surrogate: o-Terphenyl	*1.36*		*mg/kg wet*	*1.333*		*102*	*49-124*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0463 - 3050B										
Blank (P5B0463-BLK1)				Prepared & Analyzed: 02/25/15						
Chromium	BRL	0.25	mg/kg wet							
Lead	BRL	0.25	mg/kg wet							
LCS (P5B0463-BS1)				Prepared & Analyzed: 02/25/15						
Chromium	26.4	0.25	mg/kg wet	25.00		106	80-120			
Lead	25.5	0.25	mg/kg wet	25.00		102	80-120			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020409
Time Submitted: 2/20/2015 5:00:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0511 - Solids, Dry Weight										
Blank (P5B0511-BLK1)				Prepared & Analyzed: 02/26/15						
% Solids	100	0.100	% by Weight							
Duplicate (P5B0511-DUP2)		**Source: 5020409-10**		Prepared & Analyzed: 02/26/15						
% Solids	78.5	0.100	% by Weight		78.3			0.3	20	

Sample Extraction Data

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020409-01	P5B0517	30 g	1 mL	02/27/15 11:30
5020409-02	P5B0517	30.01 g	1 mL	02/27/15 11:30
5020409-03	P5B0517	30.01 g	1 mL	02/27/15 11:30
5020409-04	P5B0517	30 g	1 mL	02/27/15 11:30
5020409-06	P5B0517	30 g	1 mL	02/27/15 11:30
5020409-07	P5B0517	30.03 g	1 mL	02/27/15 11:30

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020409-08	P5B0437	10.07 g	2 mL	02/24/15 10:10
5020409-09	P5B0437	10.03 g	2 mL	02/24/15 10:10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020409-01	P5B0442	5.87 g	5 mL	02/25/15 14:30
5020409-02	P5B0442	5.6 g	5 mL	02/25/15 14:30
5020409-03	P5B0442	5.91 g	5 mL	02/25/15 14:30
5020409-04	P5B0442	6.31 g	5 mL	02/25/15 14:30
5020409-05	P5B0442	6.71 g	5 mL	02/25/15 14:30
5020409-06	P5B0442	5.53 g	5 mL	02/25/15 14:30
5020409-07	P5B0442	6.16 g	5 mL	02/25/15 14:30
5020409-10	P5B0442	6.15 g	5 mL	02/25/15 14:30
5020409-11	P5B0442	6.11 g	5 mL	02/25/15 14:30

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
5020409-01	P5B0511	30 g	30 g	02/26/15 16:05
5020409-02	P5B0511	30 g	30 g	02/26/15 16:05
5020409-03	P5B0511	30 g	30 g	02/26/15 16:05
5020409-04	P5B0511	30 g	30 g	02/26/15 16:05
5020409-05	P5B0511	30 g	30 g	02/26/15 16:05
5020409-06	P5B0511	30 g	30 g	02/26/15 16:05
5020409-07	P5B0511	30 g	30 g	02/26/15 16:05
5020409-08	P5B0511	30 g	30 g	02/26/15 16:05
5020409-09	P5B0511	30 g	30 g	02/26/15 16:05
5020409-10	P5B0511	30 g	30 g	02/26/15 16:05
5020409-11	P5B0511	30 g	30 g	02/26/15 16:05

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020409-08	P5B0420	30 g	1 mL	02/23/15 14:15
5020409-09	P5B0420	30.02 g	1 mL	02/23/15 14:15

Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
5020409-08	P5B0463	1.98 g	50 mL	02/25/15 9:10
5020409-09	P5B0463	2.01 g	50 mL	02/25/15 9:10

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5020409-12	P5B0450	10 mL	10 mL	02/23/15 10:02

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Extraction Data

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020409-01	P5B0439	5.48 g	5 mL	02/24/15 10:57
5020409-02	P5B0439	5.78 g	5 mL	02/24/15 10:57
5020409-03	P5B0439	6.1 g	5 mL	02/24/15 10:57
5020409-04	P5B0439	6.09 g	5 mL	02/24/15 10:57
5020409-05	P5B0439	6.28 g	5 mL	02/24/15 10:57
5020409-08	P5B0439	5.32 g	5 mL	02/24/15 10:57
5020409-09	P5B0439	4.27 g	5 mL	02/24/15 10:57
5020409-10	P5B0439	5.99 g	5 mL	02/24/15 10:57
5020409-11	P5B0439	6.46 g	5 mL	02/24/15 10:57

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020409-06	P5B0458	4.93 g	5 mL	02/24/15 8:00
5020409-06	P5B0458	4.93 g	5 mL	02/24/15 8:00
5020409-07	P5B0458	6.92 g	5 mL	02/24/15 8:00
5020409-07	P5B0458	6.92 g	5 mL	02/24/15 8:00

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date/Time
5020409-08	P5B0436	16.46 g	16 mL	02/24/15 9:56
5020409-09	P5B0436	18.53 g	16 mL	02/24/15 9:56

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Charlotte Airport Rental Car Sites
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Michelle Friedman
Address: 5925 Carnegie Blvd Suite 370 Charlotte, NC 28209

Client Company Name: URS Corp
Report To/Contact Name: James McDorman
Reporting Address: 6000 Fairview Rd Suite 1200 Charlotte, NC
Phone: 704-522-0330 Fax (Yes) (No): _____
Email Address: James.McDorman@AECOM.com
EDD Type: PDF ___ Excel ___ Other ___
Site Location Name: Rental Car Facility
Site Location Physical Address: Rental Car Rd Charlotte

Purchase Order No./Billing Reference 60340238

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?			

TEMP: Therm ID: IR-10 Observed: 6.8 °C / Corr: 5.4 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ DoD ___ FL ___ NC X
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ___
Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8260B	GRO	DRO	EPH + VPH	CR + Pb	8270	REMARKS	PRISM LAB ID NO.
Payless TMW-1	2/20/15	1135	Soil	VOA+G	7	40mL 4oz	Methanol + None	X	X	X					01
Payless TMW-2		1405			6			X	X	X					02
Payless TMW-3 (4-6)		1415			6			X	X	X					03
Payless TMW-3 (10-12)		1420			6			X	X	X					04
Payless TMW-4		1410			6			X	X						05
Payless ~~SB~~ MW-1 (4-6)		1425			6			X	X	X					06
Payless ~~SB~~ MW-1 (10-12)		1430			6			X	X	X					07
Hertz TMW-1 (8-10)		1635			7	40mL 4oz, 8oz		X			X	X	X		08
Hertz TMW-1 (2-4)		1630			7	"		X			X	X	X		09
Budget TMW-6 (11-13)		1515						X	X						10

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature _____ Sampled By (Print Name) Brandt Morrow Affiliation _____

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)		
Relinquished By: (Signature)	Received By: (Signature)		
Relinquished By: (Signature)	Received For Prism Laboratories By:	2/20/15	1700

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☒ Hand-delivered ☐ Prism Field Service ☐ Other _____

COC Group No. 5020409

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Charlotte Airport Rental Car Sites

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Client Company Name: URS

Report To/Contact Name: James McDorman

Reporting Address: 6000 Fairview Rd, Suite 200 Charlotte, NC

Phone: 704-522-0330 Fax (Yes) (No): _____

Email Address: James.McDorman@AECOM.com

EDD Type: PDF ___ Excel ___ Other _____

Site Location Name: Rental Car Facilities

Site Location Physical Address: Rental Car Rd Charlotte, NC

Invoice To: Michelle Friedman

Address: 5925 Carnegie Blvd, Suite 370 Charlotte, NC 28209

Purchase Order No./Billing Reference 6034010238

Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days

"Working Days" ❑ 6-9 Days ☒ Standard 10 days ❑ Rush Work Must Be Pre-Approved

Samples received after 14:00 will be processed next business day.

Turnaround time is based on business days, excluding weekends and holidays.

(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IRT-10 Observed: 6.8 °C / Corr: 5.4 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ DoD ___ FL ___ NC X ___ SC ___ OTHER ___ N/A ___

Water Chlorinated: YES ___ NO ___

Sample Iced Upon Collection: YES ___ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8260B	GRO	DRO				REMARKS	PRISM LAB ID NO.
Budget TMW-6(13-15)	2/20/15	1530	Soil	VOA+G	6	40mL 4oz	methanol None	X	X						11
Trip Blank	2/20/15		Water					X							12

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature _____ Sampled By (Print Name) Brandt Morrow Affiliation _____

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
		2/20/15	1700

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

❑ Fed Ex ❑ UPS ☒ Hand-delivered ❑ Prism Field Service ❑ Other _____

COC Group No. 502409

Additional Comments:

PRISM USE ONLY

Site Arrival Time:

Site Departure Time:

Field Tech Fee:

Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC
❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/03/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/20/2015
Prism Work Order: 5020410

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones

President/Project Manager

Reviewed By Robbi A. Jones

President/Project Manager

Data Qualifiers Key Reference:

A	Low CCV recovery.
CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
D	RPD value outside of the control limits.
E	Estimated concentration above the calibration range
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L1	LCS recovery outside of the QC limits. LCSD recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
M	Matrix spike outside of the control limits.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Receipt Summary

03/03/2015

Prism Work Order: 5020410

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Hertz B1 (8-10)	5020410-01	Solid	02/19/15	02/20/15
Hertz B2 (8-10)	5020410-02	Solid	02/19/15	02/20/15
Hertz B3 (2-4)	5020410-03	Solid	02/19/15	02/20/15
Hertz B4 (6-8)	5020410-04	Solid	02/19/15	02/20/15
Budget TMW-1	5020410-05	Solid	02/19/15	02/20/15
Budget TMW-2 (6-8)	5020410-06	Solid	02/19/15	02/20/15
Budget TMW-3	5020410-07	Solid	02/19/15	02/20/15
Budget TMW-4	5020410-08	Solid	02/19/15	02/20/15
Budget TMW-5	5020410-09	Solid	02/19/15	02/20/15
Hertz B3 (8-10)	5020410-10	Solid	02/19/15	02/20/15
Budget TMW-2 (10-12)	5020410-11	Solid	02/19/15	02/20/15
Trip Blank	5020410-12	Water	02/19/15	02/20/15

Samples were received in good condition at 3.0 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/03/2015

Prism Work Order: 5020410

Prism ID	Client ID	Parameter	Method	Result		Units
5020410-01	Hertz B1 (8-10)	Diesel Range Organics	8015C	2.1	J	mg/kg dry
5020410-03	Hertz B3 (2-4)	1,2,4-Trimethylbenzene	8260B	0.0093		mg/kg dry
5020410-03	Hertz B3 (2-4)	1,3,5-Trimethylbenzene	8260B	0.0028	J	mg/kg dry
5020410-03	Hertz B3 (2-4)	Benzene	8260B	0.0059		mg/kg dry
5020410-03	Hertz B3 (2-4)	Ethylbenzene	8260B	0.0037	J	mg/kg dry
5020410-03	Hertz B3 (2-4)	m,p-Xylenes	8260B	0.020		mg/kg dry
5020410-03	Hertz B3 (2-4)	Methyl Ethyl Ketone (2-Butanone)	8260B	0.0059	J	mg/kg dry
5020410-03	Hertz B3 (2-4)	Methylene Chloride	8260B	0.0075		mg/kg dry
5020410-03	Hertz B3 (2-4)	Methyl-tert-Butyl Ether	8260B	0.010	J	mg/kg dry
5020410-03	Hertz B3 (2-4)	Naphthalene	8260B	0.0038	J	mg/kg dry
5020410-03	Hertz B3 (2-4)	o-Xylene	8260B	0.0063		mg/kg dry
5020410-03	Hertz B3 (2-4)	tert-Amyl Alcohol	8260B	0.0075	J	mg/kg dry
5020410-03	Hertz B3 (2-4)	Toluene	8260B	0.0035	J	mg/kg dry
5020410-03	Hertz B3 (2-4)	Xylenes, total	8260B	0.026		mg/kg dry
5020410-04	Hertz B4 (6-8)	Chromium	*6010C	4.3		mg/kg dry
5020410-04	Hertz B4 (6-8)	Lead	*6010C	6.9		mg/kg dry
5020410-05	Budget TMW-1	Chromium	*6010C	32		mg/kg dry
5020410-05	Budget TMW-1	Lead	*6010C	8.9		mg/kg dry
5020410-06	Budget TMW-2 (6-8)	Chromium	*6010C	42		mg/kg dry
5020410-06	Budget TMW-2 (6-8)	Lead	*6010C	8.9		mg/kg dry
5020410-06	Budget TMW-2 (6-8)	Acetone	8260B	0.073		mg/kg dry
5020410-06	Budget TMW-2 (6-8)	cis-1,2-Dichloroethylene	8260B	0.0061		mg/kg dry
5020410-06	Budget TMW-2 (6-8)	Isopropylbenzene (Cumene)	8260B	0.27	E	mg/kg dry
5020410-06	Budget TMW-2 (6-8)	Methyl Ethyl Ketone (2-Butanone)	8260B	0.014	J	mg/kg dry
5020410-06	Budget TMW-2 (6-8)	C9-C12 Aliphatics	MADEP VPH	1.7	J	mg/kg dry
5020410-06	Budget TMW-2 (6-8)	C9-C10 Aromatics	MADEP VPH	1.0	J	mg/kg dry
5020410-08	Budget TMW-4	Methyl Ethyl Ketone (2-Butanone)	8260B	0.0055	J	mg/kg dry
5020410-08	Budget TMW-4	Methyl-tert-Butyl Ether	8260B	0.0031	J	mg/kg dry
5020410-10	Hertz B3 (8-10)	Gasoline Range Organics	*8015C	19		mg/kg dry
5020410-10	Hertz B3 (8-10)	1,2,4-Trimethylbenzene	8260B	0.050		mg/kg dry
5020410-10	Hertz B3 (8-10)	1,3,5-Trimethylbenzene	8260B	0.018		mg/kg dry
5020410-10	Hertz B3 (8-10)	Acetone	8260B	0.63	E	mg/kg dry
5020410-10	Hertz B3 (8-10)	Isopropyl Ether	8260B	0.0099		mg/kg dry
5020410-10	Hertz B3 (8-10)	m,p-Xylenes	8260B	0.011	J	mg/kg dry
5020410-10	Hertz B3 (8-10)	Methyl Butyl Ketone (2-Hexanone)	8260B	0.17		mg/kg dry
5020410-10	Hertz B3 (8-10)	Methyl Ethyl Ketone (2-Butanone)	8260B	0.58	E	mg/kg dry
5020410-10	Hertz B3 (8-10)	Methyl Isobutyl Ketone	8260B	0.051	J	mg/kg dry
5020410-10	Hertz B3 (8-10)	Methyl-tert-Butyl Ether	8260B	0.21		mg/kg dry
5020410-10	Hertz B3 (8-10)	Naphthalene	8260B	0.099		mg/kg dry
5020410-10	Hertz B3 (8-10)	n-Butylbenzene	8260B	0.010		mg/kg dry
5020410-10	Hertz B3 (8-10)	n-Propylbenzene	8260B	0.0048	J	mg/kg dry
5020410-10	Hertz B3 (8-10)	o-Xylene	8260B	0.0075		mg/kg dry
5020410-10	Hertz B3 (8-10)	sec-Butylbenzene	8260B	0.0028	J	mg/kg dry
5020410-10	Hertz B3 (8-10)	tert-Amyl Alcohol	8260B	3.7	E	mg/kg dry

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/03/2015

Prism Work Order: 5020410

Prism ID	Client ID	Parameter	Method	Result		Units
5020410-10	Hertz B3 (8-10)	tert-Amyl Methyl Ether	8260B	0.0085	J	mg/kg dry
5020410-10	Hertz B3 (8-10)	Xylenes, total	8260B	0.018	J	mg/kg dry
5020410-11	Budget TMW-2 (10-12)	C11-C22 Aromatics	MADEP EPH	5.1	J	mg/kg dry
5020410-11	Budget TMW-2 (10-12)	Chromium	*6010C	24		mg/kg dry
5020410-11	Budget TMW-2 (10-12)	Lead	*6010C	8.0		mg/kg dry
5020410-11	Budget TMW-2 (10-12)	Acetone	8260B	0.061		mg/kg dry
5020410-11	Budget TMW-2 (10-12)	cis-1,2-Dichloroethylene	8260B	0.011		mg/kg dry
5020410-11	Budget TMW-2 (10-12)	Isopropylbenzene (Cumene)	8260B	0.025		mg/kg dry
5020410-11	Budget TMW-2 (10-12)	Methyl Ethyl Ketone (2-Butanone)	8260B	0.0096	J	mg/kg dry
5020410-11	Budget TMW-2 (10-12)	tert-Amyl Alcohol	8260B	0.0070	J	mg/kg dry
5020410-11	Budget TMW-2 (10-12)	Trichloroethylene	8260B	0.0042	J	mg/kg dry
5020410-11	Budget TMW-2 (10-12)	C9-C12 Aliphatics	MADEP VPH	1.9	J	mg/kg dry
5020410-11	Budget TMW-2 (10-12)	C9-C10 Aromatics	MADEP VPH	0.33	J	mg/kg dry

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz B1 (8-10)
Prism Sample ID: 5020410-01
Prism Work Order: 5020410
Time Collected: 02/19/15 11:45
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**2.1 J**	**mg/kg dry**	**12**	**1.7**	**1**	**8015C**	**3/2/15 9:51**	**JMV**	**P5B0517**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*68 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	7.8	1.6	50	*8015C	2/26/15 1:14	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*104 %*		*50-137*	
General Chemistry Parameters									
% Solids	**58.4**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz B2 (8-10)
Prism Sample ID: 5020410-02
Prism Work Order: 5020410
Time Collected: 02/19/15 11:50
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.3	1.1	50	*8015C	2/26/15 1:42	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*99 %*		*50-137*	
General Chemistry Parameters									
% Solids	**81.4**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0051	0.00042	1	8260B	2/25/15 13:46	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 13:46	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0051	0.00035	1	8260B	2/25/15 13:46	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0051	0.00045	1	8260B	2/25/15 13:46	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0051	0.00014	1	8260B	2/25/15 13:46	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00023	1	8260B	2/25/15 13:46	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/25/15 13:46	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/25/15 13:46	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0051	0.00065	1	8260B	2/25/15 13:46	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.00038	1	8260B	2/25/15 13:46	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.00039	1	8260B	2/25/15 13:46	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 13:46	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/25/15 13:46	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/25/15 13:46	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.00032	1	8260B	2/25/15 13:46	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.00039	1	8260B	2/25/15 13:46	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00034	1	8260B	2/25/15 13:46	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/25/15 13:46	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00020	1	8260B	2/25/15 13:46	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/25/15 13:46	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/25/15 13:46	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/25/15 13:46	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 13:46	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.051	0.0012	1	8260B	2/25/15 13:46	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0031	0.00030	1	8260B	2/25/15 13:46	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0051	0.00043	1	8260B	2/25/15 13:46	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/25/15 13:46	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/25/15 13:46	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0051	0.00058	1	8260B	2/25/15 13:46	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.010	0.00063	1	8260B	2/25/15 13:46	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 13:46	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0051	0.00027	1	8260B	2/25/15 13:46	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.010	0.00043	1	8260B	2/25/15 13:46	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0051	0.00037	1	8260B	2/25/15 13:46	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0051	0.00034	1	8260B	2/25/15 13:46	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz B2 (8-10)
Prism Sample ID: 5020410-02
Prism Work Order: 5020410
Time Collected: 02/19/15 11:50
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00022	1	8260B	2/25/15 13:46	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00017	1	8260B	2/25/15 13:46	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 13:46	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0051	0.00023	1	8260B	2/25/15 13:46	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.26	0.10	1	8260B	2/25/15 13:46	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0051	0.00020	1	8260B	2/25/15 13:46	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 13:46	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/25/15 13:46	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00047	1	8260B	2/25/15 13:46	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.051	0.00046	1	8260B	2/25/15 13:46	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00046	1	8260B	2/25/15 13:46	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.051	0.00044	1	8260B	2/25/15 13:46	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/25/15 13:46	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/25/15 13:46	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/25/15 13:46	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/25/15 13:46	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/25/15 13:46	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 13:46	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 13:46	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/25/15 13:46	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.41	0.0042	1	8260B	2/25/15 13:46	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.10	0.00044	1	8260B	2/25/15 13:46	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.20	0.00036	1	8260B	2/25/15 13:46	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.41	0.00051	1	8260B	2/25/15 13:46	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0051	0.00017	1	8260B	2/25/15 13:46	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.10	0.00036	1	8260B	2/25/15 13:46	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/25/15 13:46	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/25/15 13:46	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/25/15 13:46	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00027	1	8260B	2/25/15 13:46	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0051	0.00033	1	8260B	2/25/15 13:46	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0051	0.00033	1	8260B	2/25/15 13:46	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.026	0.00070	1	8260B	2/25/15 13:46	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 13:46	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.015	0.00096	1	8260B	2/25/15 13:46	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*95 %*	*70-130*
Dibromofluoromethane	*98 %*	*84-123*
Toluene-d8	*99 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz B3 (2-4)
Prism Sample ID: 5020410-03
Prism Work Order: 5020410
Time Collected: 02/19/15 11:55
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.3	1.1	50	*8015C	2/26/15 2:10	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*107 %*		*50-137*	
General Chemistry Parameters									
% Solids	**84.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0054	0.00044	1	8260B	2/25/15 14:10	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 14:10	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0054	0.00036	1	8260B	2/25/15 14:10	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0054	0.00048	1	8260B	2/25/15 14:10	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0054	0.00015	1	8260B	2/25/15 14:10	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00024	1	8260B	2/25/15 14:10	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00030	1	8260B	2/25/15 14:10	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0054	0.00031	1	8260B	2/25/15 14:10	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0054	0.00069	1	8260B	2/25/15 14:10	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0054	0.00040	1	8260B	2/25/15 14:10	MSC	P5B0475
1,2,4-Trimethylbenzene	**0.0093**	**mg/kg dry**	**0.0054**	**0.00041**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
1,2-Dibromoethane	BRL	mg/kg dry	0.0054	0.00022	1	8260B	2/25/15 14:10	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.00025	1	8260B	2/25/15 14:10	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0054	0.00032	1	8260B	2/25/15 14:10	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0054	0.00033	1	8260B	2/25/15 14:10	MSC	P5B0475
1,3,5-Trimethylbenzene	**0.0028 J**	**mg/kg dry**	**0.0054**	**0.00041**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.00036	1	8260B	2/25/15 14:10	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0054	0.00027	1	8260B	2/25/15 14:10	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.00021	1	8260B	2/25/15 14:10	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 14:10	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0054	0.00028	1	8260B	2/25/15 14:10	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0054	0.00032	1	8260B	2/25/15 14:10	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 14:10	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.054	0.0013	1	8260B	2/25/15 14:10	MSC	P5B0475
Benzene	**0.0059**	**mg/kg dry**	**0.0032**	**0.00031**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
Bromobenzene	BRL	mg/kg dry	0.0054	0.00045	1	8260B	2/25/15 14:10	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0054	0.00030	1	8260B	2/25/15 14:10	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0054	0.00030	1	8260B	2/25/15 14:10	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0054	0.00061	1	8260B	2/25/15 14:10	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.011	0.00067	1	8260B	2/25/15 14:10	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0054	0.00027	1	8260B	2/25/15 14:10	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0054	0.00029	1	8260B	2/25/15 14:10	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.011	0.00045	1	8260B	2/25/15 14:10	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0054	0.00039	1	8260B	2/25/15 14:10	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0054	0.00036	1	8260B	2/25/15 14:10	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz B3 (2-4)
Prism Sample ID: 5020410-03
Prism Work Order: 5020410
Time Collected: 02/19/15 11:55
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00023	1	8260B	2/25/15 14:10	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00018	1	8260B	2/25/15 14:10	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0054	0.00022	1	8260B	2/25/15 14:10	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0054	0.00025	1	8260B	2/25/15 14:10	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.27	0.11	1	8260B	2/25/15 14:10	MSC	P5B0475
Ethylbenzene	**0.0037 J**	**mg/kg dry**	**0.0054**	**0.00021**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
Isopropyl Ether	BRL	mg/kg dry	0.0054	0.00022	1	8260B	2/25/15 14:10	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0054	0.00032	1	8260B	2/25/15 14:10	MSC	P5B0475
m,p-Xylenes	**0.020**	**mg/kg dry**	**0.011**	**0.00050**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.054	0.00049	1	8260B	2/25/15 14:10	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	**0.0059 J**	**mg/kg dry**	**0.11**	**0.00049**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.054	0.00046	1	8260B	2/25/15 14:10	MSC	P5B0475
Methylene Chloride	**0.0075**	**mg/kg dry**	**0.0054**	**0.00030**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
Methyl-tert-Butyl Ether	**0.010 J**	**mg/kg dry**	**0.011**	**0.00017**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
Naphthalene	**0.0038 J**	**mg/kg dry**	**0.011**	**0.00017**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
n-Butylbenzene	BRL	mg/kg dry	0.0054	0.00028	1	8260B	2/25/15 14:10	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0054	0.00032	1	8260B	2/25/15 14:10	MSC	P5B0475
o-Xylene	**0.0063**	**mg/kg dry**	**0.0054**	**0.00022**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
sec-Butylbenzene	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 14:10	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0054	0.00032	1	8260B	2/25/15 14:10	MSC	P5B0475
tert-Amyl Alcohol	**0.0075 J**	**mg/kg dry**	**0.43**	**0.0045**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00046	1	8260B	2/25/15 14:10	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.22	0.00038	1	8260B	2/25/15 14:10	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.43	0.00054	1	8260B	2/25/15 14:10	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0054	0.00018	1	8260B	2/25/15 14:10	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00038	1	8260B	2/25/15 14:10	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 14:10	MSC	P5B0475
Toluene	**0.0035 J**	**mg/kg dry**	**0.0054**	**0.00031**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00032	1	8260B	2/25/15 14:10	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00028	1	8260B	2/25/15 14:10	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0054	0.00035	1	8260B	2/25/15 14:10	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0054	0.00035	1	8260B	2/25/15 14:10	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.027	0.00074	1	8260B	2/25/15 14:10	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 14:10	MSC	P5B0475
Xylenes, total	**0.026**	**mg/kg dry**	**0.016**	**0.0010**	**1**	**8260B**	**2/25/15 14:10**	**MSC**	**P5B0475**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*89 %*	*70-130*
Dibromofluoromethane	*90 %*	*84-123*
Toluene-d8	*91 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz B4 (6-8)
Prism Sample ID: 5020410-04
Prism Work Order: 5020410
Time Collected: 02/19/15 12:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	13	0.73	1	MADEP EPH	3/2/15 10:02	KC	P5B0437
C19-C36 Aliphatics	BRL	mg/kg dry	13	3.0	1	MADEP EPH	3/2/15 10:02	KC	P5B0437
C11-C22 Aromatics	BRL	mg/kg dry	13	2.3	1	MADEP EPH	3/2/15 10:02	KC	P5B0437

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*62 %*	*40-140*
o-Terphenyl	*83 %*	*40-140*
2-Fluorobiphenyl	*86 %*	*40-140*
2-Bromonaphthalene	*79 %*	*40-140*

General Chemistry Parameters									
% Solids	**77.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.43	0.066	1	8270D	2/24/15 19:19	KC	P5B0420
1,2-Dichlorobenzene	BRL	mg/kg dry	0.43	0.065	1	8270D	2/24/15 19:19	KC	P5B0420
1,3-Dichlorobenzene	BRL	mg/kg dry	0.43	0.060	1	8270D	2/24/15 19:19	KC	P5B0420
1,4-Dichlorobenzene	BRL	mg/kg dry	0.43	0.062	1	8270D	2/24/15 19:19	KC	P5B0420
1-Methylnaphthalene	BRL	mg/kg dry	0.43	0.082	1	8270D	2/24/15 19:19	KC	P5B0420
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.43	0.080	1	8270D	2/24/15 19:19	KC	P5B0420
2,4-Dichlorophenol	BRL	mg/kg dry	0.43	0.082	1	8270D	2/24/15 19:19	KC	P5B0420
2,4-Dimethylphenol	BRL	mg/kg dry	0.43	0.065	1	8270D	2/24/15 19:19	KC	P5B0420
2,4-Dinitrophenol	BRL CCV	mg/kg dry	0.43	0.059	1	8270D	2/24/15 19:19	KC	P5B0420
2,4-Dinitrotoluene	BRL	mg/kg dry	0.43	0.052	1	8270D	2/24/15 19:19	KC	P5B0420
2,6-Dinitrotoluene	BRL	mg/kg dry	0.43	0.057	1	8270D	2/24/15 19:19	KC	P5B0420
2-Chloronaphthalene	BRL	mg/kg dry	0.43	0.062	1	8270D	2/24/15 19:19	KC	P5B0420
2-Chlorophenol	BRL	mg/kg dry	0.43	0.060	1	8270D	2/24/15 19:19	KC	P5B0420
2-Methylnaphthalene	BRL	mg/kg dry	0.43	0.068	1	8270D	2/24/15 19:19	KC	P5B0420
2-Methylphenol	BRL	mg/kg dry	0.43	0.055	1	8270D	2/24/15 19:19	KC	P5B0420
2-Nitrophenol	BRL	mg/kg dry	0.43	0.078	1	8270D	2/24/15 19:19	KC	P5B0420
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.43	0.084	1	8270D	2/24/15 19:19	KC	P5B0420
3/4-Methylphenol	BRL	mg/kg dry	0.43	0.053	1	8270D	2/24/15 19:19	KC	P5B0420
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.43	0.064	1	8270D	2/24/15 19:19	KC	P5B0420
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.43	0.073	1	8270D	2/24/15 19:19	KC	P5B0420
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.43	0.060	1	8270D	2/24/15 19:19	KC	P5B0420
4-Chloroaniline	BRL	mg/kg dry	0.43	0.051	1	8270D	2/24/15 19:19	KC	P5B0420
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.43	0.055	1	8270D	2/24/15 19:19	KC	P5B0420
4-Nitrophenol	BRL	mg/kg dry	0.43	0.066	1	8270D	2/24/15 19:19	KC	P5B0420
Acenaphthene	BRL	mg/kg dry	0.43	0.058	1	8270D	2/24/15 19:19	KC	P5B0420
Acenaphthylene	BRL	mg/kg dry	0.43	0.062	1	8270D	2/24/15 19:19	KC	P5B0420
Anthracene	BRL	mg/kg dry	0.43	0.069	1	8270D	2/24/15 19:19	KC	P5B0420
Azobenzene	BRL	mg/kg dry	0.43	0.056	1	8270D	2/24/15 19:19	KC	P5B0420
Benzo(a)anthracene	BRL	mg/kg dry	0.43	0.056	1	8270D	2/24/15 19:19	KC	P5B0420
Benzo(a)pyrene	BRL	mg/kg dry	0.43	0.046	1	8270D	2/24/15 19:19	KC	P5B0420

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz B4 (6-8)
Prism Sample ID: 5020410-04
Prism Work Order: 5020410
Time Collected: 02/19/15 12:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.43	0.049	1	8270D	2/24/15 19:19	KC	P5B0420
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.43	0.047	1	8270D	2/24/15 19:19	KC	P5B0420
Benzo(k)fluoranthene	BRL	mg/kg dry	0.43	0.056	1	8270D	2/24/15 19:19	KC	P5B0420
Benzoic Acid	BRL CCV	mg/kg dry	0.43	0.036	1	8270D	2/24/15 19:19	KC	P5B0420
Benzyl alcohol	BRL	mg/kg dry	0.43	0.056	1	8270D	2/24/15 19:19	KC	P5B0420
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.43	0.074	1	8270D	2/24/15 19:19	KC	P5B0420
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.43	0.060	1	8270D	2/24/15 19:19	KC	P5B0420
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.43	0.073	1	8270D	2/24/15 19:19	KC	P5B0420
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.43	0.063	1	8270D	2/24/15 19:19	KC	P5B0420
Butyl benzyl phthalate	BRL	mg/kg dry	0.43	0.061	1	8270D	2/24/15 19:19	KC	P5B0420
Chrysene	BRL	mg/kg dry	0.43	0.054	1	8270D	2/24/15 19:19	KC	P5B0420
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.43	0.052	1	8270D	2/24/15 19:19	KC	P5B0420
Dibenzofuran	BRL	mg/kg dry	0.43	0.065	1	8270D	2/24/15 19:19	KC	P5B0420
Diethyl phthalate	BRL	mg/kg dry	0.43	0.059	1	8270D	2/24/15 19:19	KC	P5B0420
Dimethyl phthalate	BRL	mg/kg dry	0.43	0.056	1	8270D	2/24/15 19:19	KC	P5B0420
Di-n-butyl phthalate	BRL	mg/kg dry	0.43	0.061	1	8270D	2/24/15 19:19	KC	P5B0420
Di-n-octyl phthalate	BRL	mg/kg dry	0.43	0.052	1	8270D	2/24/15 19:19	KC	P5B0420
Fluoranthene	BRL	mg/kg dry	0.43	0.054	1	8270D	2/24/15 19:19	KC	P5B0420
Fluorene	BRL	mg/kg dry	0.43	0.061	1	8270D	2/24/15 19:19	KC	P5B0420
Hexachlorobenzene	BRL	mg/kg dry	0.43	0.068	1	8270D	2/24/15 19:19	KC	P5B0420
Hexachlorobutadiene	BRL	mg/kg dry	0.43	0.077	1	8270D	2/24/15 19:19	KC	P5B0420
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.43	0.076	1	8270D	2/24/15 19:19	KC	P5B0420
Hexachloroethane	BRL	mg/kg dry	0.43	0.071	1	8270D	2/24/15 19:19	KC	P5B0420
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.43	0.049	1	8270D	2/24/15 19:19	KC	P5B0420
Isophorone	BRL	mg/kg dry	0.43	0.058	1	8270D	2/24/15 19:19	KC	P5B0420
Naphthalene	BRL	mg/kg dry	0.43	0.069	1	8270D	2/24/15 19:19	KC	P5B0420
Nitrobenzene	BRL	mg/kg dry	0.43	0.061	1	8270D	2/24/15 19:19	KC	P5B0420
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.43	0.067	1	8270D	2/24/15 19:19	KC	P5B0420
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.43	0.065	1	8270D	2/24/15 19:19	KC	P5B0420
Pentachlorophenol	BRL	mg/kg dry	0.43	0.050	1	8270D	2/24/15 19:19	KC	P5B0420
Phenanthrene	BRL	mg/kg dry	0.43	0.055	1	8270D	2/24/15 19:19	KC	P5B0420
Phenol	BRL	mg/kg dry	0.43	0.063	1	8270D	2/24/15 19:19	KC	P5B0420
Pyrene	BRL	mg/kg dry	0.43	0.056	1	8270D	2/24/15 19:19	KC	P5B0420

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*110 %*	*39-132*
2-Fluorobiphenyl	*103 %*	*44-115*
2-Fluorophenol	*99 %*	*35-115*
Nitrobenzene-d5	*93 %*	*37-122*
Phenol-d5	*94 %*	*34-121*
Terphenyl-d14	*121 %*	*54-127*

Total Metals

Chromium	**4.3**	**mg/kg dry**	**0.33**	**0.053**	**1**	***6010C**	**2/25/15 19:31**	**BGM**	**P5B0463**
Lead	**6.9**	**mg/kg dry**	**0.33**	**0.049**	**1**	***6010C**	**2/25/15 19:31**	**BGM**	**P5B0463**

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz B4 (6-8)
Prism Sample ID: 5020410-04
Prism Work Order: 5020410
Time Collected: 02/19/15 12:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00043	1	8260B	2/25/15 14:34	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 14:34	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	2/25/15 14:34	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0052	0.00046	1	8260B	2/25/15 14:34	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0052	0.00015	1	8260B	2/25/15 14:34	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00023	1	8260B	2/25/15 14:34	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00029	1	8260B	2/25/15 14:34	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00030	1	8260B	2/25/15 14:34	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0052	0.00067	1	8260B	2/25/15 14:34	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00039	1	8260B	2/25/15 14:34	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00040	1	8260B	2/25/15 14:34	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0052	0.00021	1	8260B	2/25/15 14:34	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 14:34	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0052	0.00031	1	8260B	2/25/15 14:34	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00032	1	8260B	2/25/15 14:34	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00040	1	8260B	2/25/15 14:34	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00035	1	8260B	2/25/15 14:34	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0052	0.00026	1	8260B	2/25/15 14:34	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00021	1	8260B	2/25/15 14:34	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 14:34	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	2/25/15 14:34	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	2/25/15 14:34	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 14:34	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.052	0.0013	1	8260B	2/25/15 14:34	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0031	0.00030	1	8260B	2/25/15 14:34	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0052	0.00044	1	8260B	2/25/15 14:34	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0052	0.00029	1	8260B	2/25/15 14:34	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0052	0.00029	1	8260B	2/25/15 14:34	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0052	0.00059	1	8260B	2/25/15 14:34	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.010	0.00065	1	8260B	2/25/15 14:34	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0052	0.00026	1	8260B	2/25/15 14:34	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0052	0.00028	1	8260B	2/25/15 14:34	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.010	0.00044	1	8260B	2/25/15 14:34	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0052	0.00038	1	8260B	2/25/15 14:34	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	2/25/15 14:34	MSC	P5B0475
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00022	1	8260B	2/25/15 14:34	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00018	1	8260B	2/25/15 14:34	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0052	0.00022	1	8260B	2/25/15 14:34	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0052	0.00024	1	8260B	2/25/15 14:34	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.26	0.10	1	8260B	2/25/15 14:34	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0052	0.00020	1	8260B	2/25/15 14:34	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0052	0.00021	1	8260B	2/25/15 14:34	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz B4 (6-8)
Prism Sample ID: 5020410-04
Prism Work Order: 5020410
Time Collected: 02/19/15 12:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0052	0.00031	1	8260B	2/25/15 14:34	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00048	1	8260B	2/25/15 14:34	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.052	0.00047	1	8260B	2/25/15 14:34	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00047	1	8260B	2/25/15 14:34	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.052	0.00045	1	8260B	2/25/15 14:34	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0052	0.00029	1	8260B	2/25/15 14:34	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00017	1	8260B	2/25/15 14:34	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.010	0.00017	1	8260B	2/25/15 14:34	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	2/25/15 14:34	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	2/25/15 14:34	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0052	0.00021	1	8260B	2/25/15 14:34	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 14:34	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0052	0.00032	1	8260B	2/25/15 14:34	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.42	0.0043	1	8260B	2/25/15 14:34	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.10	0.00045	1	8260B	2/25/15 14:34	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.21	0.00037	1	8260B	2/25/15 14:34	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.42	0.00052	1	8260B	2/25/15 14:34	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0052	0.00018	1	8260B	2/25/15 14:34	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.10	0.00037	1	8260B	2/25/15 14:34	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 14:34	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0052	0.00030	1	8260B	2/25/15 14:34	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	2/25/15 14:34	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00028	1	8260B	2/25/15 14:34	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0052	0.00034	1	8260B	2/25/15 14:34	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0052	0.00034	1	8260B	2/25/15 14:34	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.026	0.00072	1	8260B	2/25/15 14:34	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 14:34	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.016	0.00098	1	8260B	2/25/15 14:34	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*91 %*	*70-130*
Dibromofluoromethane	*93 %*	*84-123*
Toluene-d8	*93 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.9	0.19	100	MADEP VPH	2/24/15 18:16	ANG	P5B0436
C9-C12 Aliphatics	BRL	mg/kg dry	4.9	0.45	100	MADEP VPH	2/24/15 18:16	ANG	P5B0436
C9-C10 Aromatics	BRL	mg/kg dry	4.9	0.043	100	MADEP VPH	2/24/15 18:16	ANG	P5B0436

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*120 %*	*70-130*
2,5-Dibromotoluene (FID)	*122 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-1
Prism Sample ID: 5020410-05
Prism Work Order: 5020410
Time Collected: 02/19/15 13:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	13	0.75	1	MADEP EPH	3/2/15 10:38	KC	P5B0437
C19-C36 Aliphatics	BRL	mg/kg dry	13	3.1	1	MADEP EPH	3/2/15 10:38	KC	P5B0437
C11-C22 Aromatics	BRL	mg/kg dry	13	2.4	1	MADEP EPH	3/2/15 10:38	KC	P5B0437

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*79 %*	*40-140*
o-Terphenyl	*77 %*	*40-140*
2-Fluorobiphenyl	*81 %*	*40-140*
2-Bromonaphthalene	*71 %*	*40-140*

General Chemistry Parameters									
% Solids	**75.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.44	0.068	1	8270D	2/24/15 19:40	KC	P5B0420
1,2-Dichlorobenzene	BRL	mg/kg dry	0.44	0.066	1	8270D	2/24/15 19:40	KC	P5B0420
1,3-Dichlorobenzene	BRL	mg/kg dry	0.44	0.062	1	8270D	2/24/15 19:40	KC	P5B0420
1,4-Dichlorobenzene	BRL	mg/kg dry	0.44	0.064	1	8270D	2/24/15 19:40	KC	P5B0420
1-Methylnaphthalene	BRL	mg/kg dry	0.44	0.084	1	8270D	2/24/15 19:40	KC	P5B0420
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.44	0.082	1	8270D	2/24/15 19:40	KC	P5B0420
2,4-Dichlorophenol	BRL	mg/kg dry	0.44	0.085	1	8270D	2/24/15 19:40	KC	P5B0420
2,4-Dimethylphenol	BRL	mg/kg dry	0.44	0.067	1	8270D	2/24/15 19:40	KC	P5B0420
2,4-Dinitrophenol	BRL CCV	mg/kg dry	0.44	0.061	1	8270D	2/24/15 19:40	KC	P5B0420
2,4-Dinitrotoluene	BRL	mg/kg dry	0.44	0.053	1	8270D	2/24/15 19:40	KC	P5B0420
2,6-Dinitrotoluene	BRL	mg/kg dry	0.44	0.058	1	8270D	2/24/15 19:40	KC	P5B0420
2-Chloronaphthalene	BRL	mg/kg dry	0.44	0.063	1	8270D	2/24/15 19:40	KC	P5B0420
2-Chlorophenol	BRL	mg/kg dry	0.44	0.062	1	8270D	2/24/15 19:40	KC	P5B0420
2-Methylnaphthalene	BRL	mg/kg dry	0.44	0.070	1	8270D	2/24/15 19:40	KC	P5B0420
2-Methylphenol	BRL	mg/kg dry	0.44	0.056	1	8270D	2/24/15 19:40	KC	P5B0420
2-Nitrophenol	BRL	mg/kg dry	0.44	0.080	1	8270D	2/24/15 19:40	KC	P5B0420
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.44	0.086	1	8270D	2/24/15 19:40	KC	P5B0420
3/4-Methylphenol	BRL	mg/kg dry	0.44	0.054	1	8270D	2/24/15 19:40	KC	P5B0420
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.44	0.066	1	8270D	2/24/15 19:40	KC	P5B0420
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.44	0.075	1	8270D	2/24/15 19:40	KC	P5B0420
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.44	0.061	1	8270D	2/24/15 19:40	KC	P5B0420
4-Chloroaniline	BRL	mg/kg dry	0.44	0.053	1	8270D	2/24/15 19:40	KC	P5B0420
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.44	0.057	1	8270D	2/24/15 19:40	KC	P5B0420
4-Nitrophenol	BRL	mg/kg dry	0.44	0.067	1	8270D	2/24/15 19:40	KC	P5B0420
Acenaphthene	BRL	mg/kg dry	0.44	0.059	1	8270D	2/24/15 19:40	KC	P5B0420
Acenaphthylene	BRL	mg/kg dry	0.44	0.063	1	8270D	2/24/15 19:40	KC	P5B0420
Anthracene	BRL	mg/kg dry	0.44	0.070	1	8270D	2/24/15 19:40	KC	P5B0420
Azobenzene	BRL	mg/kg dry	0.44	0.058	1	8270D	2/24/15 19:40	KC	P5B0420
Benzo(a)anthracene	BRL	mg/kg dry	0.44	0.057	1	8270D	2/24/15 19:40	KC	P5B0420
Benzo(a)pyrene	BRL	mg/kg dry	0.44	0.047	1	8270D	2/24/15 19:40	KC	P5B0420

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-1
Prism Sample ID: 5020410-05
Prism Work Order: 5020410
Time Collected: 02/19/15 13:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.44	0.051	1	8270D	2/24/15 19:40	KC	P5B0420
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.44	0.048	1	8270D	2/24/15 19:40	KC	P5B0420
Benzo(k)fluoranthene	BRL	mg/kg dry	0.44	0.057	1	8270D	2/24/15 19:40	KC	P5B0420
Benzoic Acid	BRL CCV	mg/kg dry	0.44	0.037	1	8270D	2/24/15 19:40	KC	P5B0420
Benzyl alcohol	BRL	mg/kg dry	0.44	0.058	1	8270D	2/24/15 19:40	KC	P5B0420
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.44	0.076	1	8270D	2/24/15 19:40	KC	P5B0420
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.44	0.062	1	8270D	2/24/15 19:40	KC	P5B0420
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.44	0.075	1	8270D	2/24/15 19:40	KC	P5B0420
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.44	0.065	1	8270D	2/24/15 19:40	KC	P5B0420
Butyl benzyl phthalate	BRL	mg/kg dry	0.44	0.062	1	8270D	2/24/15 19:40	KC	P5B0420
Chrysene	BRL	mg/kg dry	0.44	0.055	1	8270D	2/24/15 19:40	KC	P5B0420
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.44	0.053	1	8270D	2/24/15 19:40	KC	P5B0420
Dibenzofuran	BRL	mg/kg dry	0.44	0.066	1	8270D	2/24/15 19:40	KC	P5B0420
Diethyl phthalate	BRL	mg/kg dry	0.44	0.060	1	8270D	2/24/15 19:40	KC	P5B0420
Dimethyl phthalate	BRL	mg/kg dry	0.44	0.058	1	8270D	2/24/15 19:40	KC	P5B0420
Di-n-butyl phthalate	BRL	mg/kg dry	0.44	0.062	1	8270D	2/24/15 19:40	KC	P5B0420
Di-n-octyl phthalate	BRL	mg/kg dry	0.44	0.054	1	8270D	2/24/15 19:40	KC	P5B0420
Fluoranthene	BRL	mg/kg dry	0.44	0.056	1	8270D	2/24/15 19:40	KC	P5B0420
Fluorene	BRL	mg/kg dry	0.44	0.063	1	8270D	2/24/15 19:40	KC	P5B0420
Hexachlorobenzene	BRL	mg/kg dry	0.44	0.069	1	8270D	2/24/15 19:40	KC	P5B0420
Hexachlorobutadiene	BRL	mg/kg dry	0.44	0.079	1	8270D	2/24/15 19:40	KC	P5B0420
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.44	0.078	1	8270D	2/24/15 19:40	KC	P5B0420
Hexachloroethane	BRL	mg/kg dry	0.44	0.073	1	8270D	2/24/15 19:40	KC	P5B0420
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.44	0.050	1	8270D	2/24/15 19:40	KC	P5B0420
Isophorone	BRL	mg/kg dry	0.44	0.059	1	8270D	2/24/15 19:40	KC	P5B0420
Naphthalene	BRL	mg/kg dry	0.44	0.070	1	8270D	2/24/15 19:40	KC	P5B0420
Nitrobenzene	BRL	mg/kg dry	0.44	0.062	1	8270D	2/24/15 19:40	KC	P5B0420
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.44	0.069	1	8270D	2/24/15 19:40	KC	P5B0420
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.44	0.066	1	8270D	2/24/15 19:40	KC	P5B0420
Pentachlorophenol	BRL	mg/kg dry	0.44	0.052	1	8270D	2/24/15 19:40	KC	P5B0420
Phenanthrene	BRL	mg/kg dry	0.44	0.057	1	8270D	2/24/15 19:40	KC	P5B0420
Phenol	BRL	mg/kg dry	0.44	0.065	1	8270D	2/24/15 19:40	KC	P5B0420
Pyrene	BRL	mg/kg dry	0.44	0.058	1	8270D	2/24/15 19:40	KC	P5B0420

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*108 %*	*39-132*
2-Fluorobiphenyl	*101 %*	*44-115*
2-Fluorophenol	*96 %*	*35-115*
Nitrobenzene-d5	*91 %*	*37-122*
Phenol-d5	*91 %*	*34-121*
Terphenyl-d14	*120 %*	*54-127*

Total Metals

Chromium	**32**	**mg/kg dry**	**0.32**	**0.053**	**1**	***6010C**	**2/25/15 19:39**	**BGM**	**P5B0463**
Lead	**8.9**	**mg/kg dry**	**0.32**	**0.049**	**1**	***6010C**	**2/25/15 19:39**	**BGM**	**P5B0463**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-1
Prism Sample ID: 5020410-05
Prism Work Order: 5020410
Time Collected: 02/19/15 13:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0063	0.00052	1	8260B	2/25/15 14:58	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0063	0.00030	1	8260B	2/25/15 14:58	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0063	0.00042	1	8260B	2/25/15 14:58	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0063	0.00056	1	8260B	2/25/15 14:58	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0063	0.00017	1	8260B	2/25/15 14:58	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0063	0.00028	1	8260B	2/25/15 14:58	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0063	0.00034	1	8260B	2/25/15 14:58	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0063	0.00036	1	8260B	2/25/15 14:58	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0063	0.00080	1	8260B	2/25/15 14:58	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0063	0.00047	1	8260B	2/25/15 14:58	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0063	0.00048	1	8260B	2/25/15 14:58	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0063	0.00025	1	8260B	2/25/15 14:58	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0063	0.00029	1	8260B	2/25/15 14:58	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0063	0.00037	1	8260B	2/25/15 14:58	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0063	0.00039	1	8260B	2/25/15 14:58	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0063	0.00047	1	8260B	2/25/15 14:58	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0063	0.00042	1	8260B	2/25/15 14:58	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0063	0.00031	1	8260B	2/25/15 14:58	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0063	0.00025	1	8260B	2/25/15 14:58	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0063	0.00030	1	8260B	2/25/15 14:58	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0063	0.00032	1	8260B	2/25/15 14:58	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0063	0.00037	1	8260B	2/25/15 14:58	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0063	0.00030	1	8260B	2/25/15 14:58	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.063	0.0015	1	8260B	2/25/15 14:58	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0038	0.00036	1	8260B	2/25/15 14:58	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0063	0.00052	1	8260B	2/25/15 14:58	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0063	0.00034	1	8260B	2/25/15 14:58	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0063	0.00035	1	8260B	2/25/15 14:58	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0063	0.00071	1	8260B	2/25/15 14:58	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.013	0.00077	1	8260B	2/25/15 14:58	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0063	0.00031	1	8260B	2/25/15 14:58	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0063	0.00033	1	8260B	2/25/15 14:58	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.013	0.00052	1	8260B	2/25/15 14:58	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0063	0.00045	1	8260B	2/25/15 14:58	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0063	0.00042	1	8260B	2/25/15 14:58	MSC	P5B0475
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0063	0.00027	1	8260B	2/25/15 14:58	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0063	0.00021	1	8260B	2/25/15 14:58	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0063	0.00026	1	8260B	2/25/15 14:58	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0063	0.00028	1	8260B	2/25/15 14:58	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.31	0.13	1	8260B	2/25/15 14:58	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0063	0.00024	1	8260B	2/25/15 14:58	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0063	0.00026	1	8260B	2/25/15 14:58	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-1
Prism Sample ID: 5020410-05
Prism Work Order: 5020410
Time Collected: 02/19/15 13:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0063	0.00037	1	8260B	2/25/15 14:58	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.013	0.00058	1	8260B	2/25/15 14:58	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.063	0.00057	1	8260B	2/25/15 14:58	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.13	0.00057	1	8260B	2/25/15 14:58	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.063	0.00053	1	8260B	2/25/15 14:58	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0063	0.00035	1	8260B	2/25/15 14:58	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.013	0.00020	1	8260B	2/25/15 14:58	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.013	0.00020	1	8260B	2/25/15 14:58	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0063	0.00032	1	8260B	2/25/15 14:58	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0063	0.00037	1	8260B	2/25/15 14:58	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0063	0.00026	1	8260B	2/25/15 14:58	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0063	0.00030	1	8260B	2/25/15 14:58	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0063	0.00038	1	8260B	2/25/15 14:58	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.50	0.0052	1	8260B	2/25/15 14:58	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.13	0.00054	1	8260B	2/25/15 14:58	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.25	0.00044	1	8260B	2/25/15 14:58	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.50	0.00062	1	8260B	2/25/15 14:58	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0063	0.00021	1	8260B	2/25/15 14:58	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.13	0.00044	1	8260B	2/25/15 14:58	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0063	0.00030	1	8260B	2/25/15 14:58	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0063	0.00036	1	8260B	2/25/15 14:58	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0063	0.00038	1	8260B	2/25/15 14:58	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0063	0.00033	1	8260B	2/25/15 14:58	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0063	0.00041	1	8260B	2/25/15 14:58	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0063	0.00041	1	8260B	2/25/15 14:58	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.031	0.00086	1	8260B	2/25/15 14:58	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0063	0.00030	1	8260B	2/25/15 14:58	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.019	0.0012	1	8260B	2/25/15 14:58	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*92 %*	*70-130*
Dibromofluoromethane	*96 %*	*84-123*
Toluene-d8	*95 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

SR

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
C5-C8 Aliphatics	BRL	mg/kg dry	5.5	0.21	100	MADEP VPH	2/24/15 18:49	ANG	P5B0436
C9-C12 Aliphatics	BRL	mg/kg dry	5.5	0.50	100	MADEP VPH	2/24/15 18:49	ANG	P5B0436
C9-C10 Aromatics	BRL	mg/kg dry	5.5	0.047	100	MADEP VPH	2/24/15 18:49	ANG	P5B0436

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*147 %*	*70-130*
2,5-Dibromotoluene (FID)	*147 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-2 (6-8)
Prism Sample ID: 5020410-06
Prism Work Order: 5020410
Time Collected: 02/19/15 13:30
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	13	0.72	1	MADEP EPH	3/2/15 11:15	KC	P5B0437
C19-C36 Aliphatics	BRL	mg/kg dry	13	2.9	1	MADEP EPH	3/2/15 11:15	KC	P5B0437
C11-C22 Aromatics	BRL	mg/kg dry	13	2.3	1	MADEP EPH	3/2/15 11:15	KC	P5B0437

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*71 %*	*40-140*
o-Terphenyl	*86 %*	*40-140*
2-Fluorobiphenyl	*98 %*	*40-140*
2-Bromonaphthalene	*93 %*	*40-140*

General Chemistry Parameters									
% Solids	**78.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.42	0.065	1	8270D	2/24/15 20:02	KC	P5B0420
1,2-Dichlorobenzene	BRL	mg/kg dry	0.42	0.064	1	8270D	2/24/15 20:02	KC	P5B0420
1,3-Dichlorobenzene	BRL	mg/kg dry	0.42	0.059	1	8270D	2/24/15 20:02	KC	P5B0420
1,4-Dichlorobenzene	BRL	mg/kg dry	0.42	0.061	1	8270D	2/24/15 20:02	KC	P5B0420
1-Methylnaphthalene	BRL	mg/kg dry	0.42	0.081	1	8270D	2/24/15 20:02	KC	P5B0420
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.42	0.079	1	8270D	2/24/15 20:02	KC	P5B0420
2,4-Dichlorophenol	BRL	mg/kg dry	0.42	0.081	1	8270D	2/24/15 20:02	KC	P5B0420
2,4-Dimethylphenol	BRL	mg/kg dry	0.42	0.064	1	8270D	2/24/15 20:02	KC	P5B0420
2,4-Dinitrophenol	BRL CCV	mg/kg dry	0.42	0.058	1	8270D	2/24/15 20:02	KC	P5B0420
2,4-Dinitrotoluene	BRL	mg/kg dry	0.42	0.051	1	8270D	2/24/15 20:02	KC	P5B0420
2,6-Dinitrotoluene	BRL	mg/kg dry	0.42	0.056	1	8270D	2/24/15 20:02	KC	P5B0420
2-Chloronaphthalene	BRL	mg/kg dry	0.42	0.061	1	8270D	2/24/15 20:02	KC	P5B0420
2-Chlorophenol	BRL	mg/kg dry	0.42	0.059	1	8270D	2/24/15 20:02	KC	P5B0420
2-Methylnaphthalene	BRL	mg/kg dry	0.42	0.067	1	8270D	2/24/15 20:02	KC	P5B0420
2-Methylphenol	BRL	mg/kg dry	0.42	0.054	1	8270D	2/24/15 20:02	KC	P5B0420
2-Nitrophenol	BRL	mg/kg dry	0.42	0.076	1	8270D	2/24/15 20:02	KC	P5B0420
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.42	0.083	1	8270D	2/24/15 20:02	KC	P5B0420
3/4-Methylphenol	BRL	mg/kg dry	0.42	0.052	1	8270D	2/24/15 20:02	KC	P5B0420
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.42	0.063	1	8270D	2/24/15 20:02	KC	P5B0420
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.42	0.072	1	8270D	2/24/15 20:02	KC	P5B0420
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.42	0.059	1	8270D	2/24/15 20:02	KC	P5B0420
4-Chloroaniline	BRL	mg/kg dry	0.42	0.050	1	8270D	2/24/15 20:02	KC	P5B0420
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.42	0.054	1	8270D	2/24/15 20:02	KC	P5B0420
4-Nitrophenol	BRL	mg/kg dry	0.42	0.065	1	8270D	2/24/15 20:02	KC	P5B0420
Acenaphthene	BRL	mg/kg dry	0.42	0.057	1	8270D	2/24/15 20:02	KC	P5B0420
Acenaphthylene	BRL	mg/kg dry	0.42	0.061	1	8270D	2/24/15 20:02	KC	P5B0420
Anthracene	BRL	mg/kg dry	0.42	0.067	1	8270D	2/24/15 20:02	KC	P5B0420
Azobenzene	BRL	mg/kg dry	0.42	0.055	1	8270D	2/24/15 20:02	KC	P5B0420
Benzo(a)anthracene	BRL	mg/kg dry	0.42	0.055	1	8270D	2/24/15 20:02	KC	P5B0420
Benzo(a)pyrene	BRL	mg/kg dry	0.42	0.045	1	8270D	2/24/15 20:02	KC	P5B0420

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-2 (6-8)
Prism Sample ID: 5020410-06
Prism Work Order: 5020410
Time Collected: 02/19/15 13:30
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.42	0.049	1	8270D	2/24/15 20:02	KC	P5B0420
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.42	0.046	1	8270D	2/24/15 20:02	KC	P5B0420
Benzo(k)fluoranthene	BRL	mg/kg dry	0.42	0.055	1	8270D	2/24/15 20:02	KC	P5B0420
Benzoic Acid	BRL CCV	mg/kg dry	0.42	0.035	1	8270D	2/24/15 20:02	KC	P5B0420
Benzyl alcohol	BRL	mg/kg dry	0.42	0.055	1	8270D	2/24/15 20:02	KC	P5B0420
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.42	0.073	1	8270D	2/24/15 20:02	KC	P5B0420
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.42	0.059	1	8270D	2/24/15 20:02	KC	P5B0420
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.42	0.072	1	8270D	2/24/15 20:02	KC	P5B0420
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.42	0.062	1	8270D	2/24/15 20:02	KC	P5B0420
Butyl benzyl phthalate	BRL	mg/kg dry	0.42	0.060	1	8270D	2/24/15 20:02	KC	P5B0420
Chrysene	BRL	mg/kg dry	0.42	0.053	1	8270D	2/24/15 20:02	KC	P5B0420
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.42	0.051	1	8270D	2/24/15 20:02	KC	P5B0420
Dibenzofuran	BRL	mg/kg dry	0.42	0.064	1	8270D	2/24/15 20:02	KC	P5B0420
Diethyl phthalate	BRL	mg/kg dry	0.42	0.058	1	8270D	2/24/15 20:02	KC	P5B0420
Dimethyl phthalate	BRL	mg/kg dry	0.42	0.055	1	8270D	2/24/15 20:02	KC	P5B0420
Di-n-butyl phthalate	BRL	mg/kg dry	0.42	0.059	1	8270D	2/24/15 20:02	KC	P5B0420
Di-n-octyl phthalate	BRL	mg/kg dry	0.42	0.051	1	8270D	2/24/15 20:02	KC	P5B0420
Fluoranthene	BRL	mg/kg dry	0.42	0.053	1	8270D	2/24/15 20:02	KC	P5B0420
Fluorene	BRL	mg/kg dry	0.42	0.060	1	8270D	2/24/15 20:02	KC	P5B0420
Hexachlorobenzene	BRL	mg/kg dry	0.42	0.066	1	8270D	2/24/15 20:02	KC	P5B0420
Hexachlorobutadiene	BRL	mg/kg dry	0.42	0.075	1	8270D	2/24/15 20:02	KC	P5B0420
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.42	0.075	1	8270D	2/24/15 20:02	KC	P5B0420
Hexachloroethane	BRL	mg/kg dry	0.42	0.070	1	8270D	2/24/15 20:02	KC	P5B0420
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.42	0.048	1	8270D	2/24/15 20:02	KC	P5B0420
Isophorone	BRL	mg/kg dry	0.42	0.057	1	8270D	2/24/15 20:02	KC	P5B0420
Naphthalene	BRL	mg/kg dry	0.42	0.067	1	8270D	2/24/15 20:02	KC	P5B0420
Nitrobenzene	BRL	mg/kg dry	0.42	0.059	1	8270D	2/24/15 20:02	KC	P5B0420
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.42	0.066	1	8270D	2/24/15 20:02	KC	P5B0420
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.42	0.064	1	8270D	2/24/15 20:02	KC	P5B0420
Pentachlorophenol	BRL	mg/kg dry	0.42	0.049	1	8270D	2/24/15 20:02	KC	P5B0420
Phenanthrene	BRL	mg/kg dry	0.42	0.054	1	8270D	2/24/15 20:02	KC	P5B0420
Phenol	BRL	mg/kg dry	0.42	0.062	1	8270D	2/24/15 20:02	KC	P5B0420
Pyrene	BRL	mg/kg dry	0.42	0.055	1	8270D	2/24/15 20:02	KC	P5B0420

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*108 %*	*39-132*
2-Fluorobiphenyl	*100 %*	*44-115*
2-Fluorophenol	*97 %*	*35-115*
Nitrobenzene-d5	*84 %*	*37-122*
Phenol-d5	*92 %*	*34-121*
Terphenyl-d14	*118 %*	*54-127*

Total Metals

Chromium	**42**	**mg/kg dry**	**0.32**	**0.053**	**1**	***6010C**	**2/25/15 19:46**	**BGM**	**P5B0463**
Lead	**8.9**	**mg/kg dry**	**0.32**	**0.049**	**1**	***6010C**	**2/25/15 19:46**	**BGM**	**P5B0463**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-2 (6-8)
Prism Sample ID: 5020410-06
Prism Work Order: 5020410
Time Collected: 02/19/15 13:30
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00043	1	8260B	2/25/15 15:22	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 15:22	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	2/25/15 15:22	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0052	0.00046	1	8260B	2/25/15 15:22	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0052	0.00014	1	8260B	2/25/15 15:22	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00023	1	8260B	2/25/15 15:22	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00028	1	8260B	2/25/15 15:22	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00029	1	8260B	2/25/15 15:22	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0052	0.00066	1	8260B	2/25/15 15:22	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00039	1	8260B	2/25/15 15:22	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00040	1	8260B	2/25/15 15:22	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0052	0.00021	1	8260B	2/25/15 15:22	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00024	1	8260B	2/25/15 15:22	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0052	0.00031	1	8260B	2/25/15 15:22	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00032	1	8260B	2/25/15 15:22	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00039	1	8260B	2/25/15 15:22	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00034	1	8260B	2/25/15 15:22	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0052	0.00026	1	8260B	2/25/15 15:22	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00020	1	8260B	2/25/15 15:22	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 15:22	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	2/25/15 15:22	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	2/25/15 15:22	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 15:22	MSC	P5B0475
Acetone	**0.073**	**mg/kg dry**	**0.052**	**0.0013**	**1**	**8260B**	**2/25/15 15:22**	**MSC**	**P5B0475**
Benzene	BRL	mg/kg dry	0.0031	0.00030	1	8260B	2/25/15 15:22	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0052	0.00043	1	8260B	2/25/15 15:22	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0052	0.00028	1	8260B	2/25/15 15:22	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0052	0.00029	1	8260B	2/25/15 15:22	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0052	0.00059	1	8260B	2/25/15 15:22	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.010	0.00064	1	8260B	2/25/15 15:22	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0052	0.00026	1	8260B	2/25/15 15:22	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	2/25/15 15:22	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.010	0.00043	1	8260B	2/25/15 15:22	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0052	0.00037	1	8260B	2/25/15 15:22	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	2/25/15 15:22	MSC	P5B0475
cis-1,2-Dichloroethylene	**0.0061**	**mg/kg dry**	**0.0052**	**0.00022**	**1**	**8260B**	**2/25/15 15:22**	**MSC**	**P5B0475**
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00017	1	8260B	2/25/15 15:22	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0052	0.00021	1	8260B	2/25/15 15:22	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0052	0.00023	1	8260B	2/25/15 15:22	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.26	0.10	1	8260B	2/25/15 15:22	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0052	0.00020	1	8260B	2/25/15 15:22	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0052	0.00021	1	8260B	2/25/15 15:22	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-2 (6-8)
Prism Sample ID: 5020410-06
Prism Work Order: 5020410
Time Collected: 02/19/15 13:30
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	**0.27 E**	**mg/kg dry**	**0.0052**	**0.00031**	**1**	**8260B**	**2/25/15 15:22**	**MSC**	**P5B0475**
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00048	1	8260B	2/25/15 15:22	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.052	0.00047	1	8260B	2/25/15 15:22	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	**0.014 J**	**mg/kg dry**	**0.10**	**0.00047**	**1**	**8260B**	**2/25/15 15:22**	**MSC**	**P5B0475**
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.052	0.00044	1	8260B	2/25/15 15:22	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0052	0.00029	1	8260B	2/25/15 15:22	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00017	1	8260B	2/25/15 15:22	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/25/15 15:22	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0052	0.00026	1	8260B	2/25/15 15:22	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	2/25/15 15:22	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0052	0.00021	1	8260B	2/25/15 15:22	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 15:22	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	2/25/15 15:22	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.41	0.0043	1	8260B	2/25/15 15:22	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.10	0.00044	1	8260B	2/25/15 15:22	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.21	0.00036	1	8260B	2/25/15 15:22	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.41	0.00052	1	8260B	2/25/15 15:22	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0052	0.00017	1	8260B	2/25/15 15:22	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.10	0.00036	1	8260B	2/25/15 15:22	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 15:22	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0052	0.00030	1	8260B	2/25/15 15:22	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	2/25/15 15:22	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	2/25/15 15:22	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0052	0.00034	1	8260B	2/25/15 15:22	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0052	0.00033	1	8260B	2/25/15 15:22	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.026	0.00071	1	8260B	2/25/15 15:22	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0052	0.00025	1	8260B	2/25/15 15:22	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.016	0.00097	1	8260B	2/25/15 15:22	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*115 %*	*70-130*
Dibromofluoromethane	*114 %*	*84-123*
Toluene-d8	*112 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.0	0.19	100	MADEP VPH	2/24/15 19:22	ANG	P5B0436
C9-C12 Aliphatics	**1.7 J**	**mg/kg dry**	**5.0**	**0.45**	**100**	**MADEP VPH**	**2/24/15 19:22**	**ANG**	**P5B0436**
C9-C10 Aromatics	**1.0 J**	**mg/kg dry**	**5.0**	**0.043**	**100**	**MADEP VPH**	**2/24/15 19:22**	**ANG**	**P5B0436**

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*123 %*	*70-130*
2,5-Dibromotoluene (FID)	*124 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-3
Prism Sample ID: 5020410-07
Prism Work Order: 5020410
Time Collected: 02/19/15 16:15
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.0	1.1	50	*8015C	2/26/15 2:38	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*110 %*		*50-137*	
General Chemistry Parameters									
% Solids	**79.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0058	0.00048	1	8260B	2/25/15 15:46	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0058	0.00028	1	8260B	2/25/15 15:46	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0058	0.00039	1	8260B	2/25/15 15:46	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0058	0.00052	1	8260B	2/25/15 15:46	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0058	0.00016	1	8260B	2/25/15 15:46	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0058	0.00026	1	8260B	2/25/15 15:46	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0058	0.00032	1	8260B	2/25/15 15:46	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0058	0.00033	1	8260B	2/25/15 15:46	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0058	0.00074	1	8260B	2/25/15 15:46	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0058	0.00043	1	8260B	2/25/15 15:46	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0058	0.00045	1	8260B	2/25/15 15:46	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0058	0.00023	1	8260B	2/25/15 15:46	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0058	0.00027	1	8260B	2/25/15 15:46	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0058	0.00035	1	8260B	2/25/15 15:46	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0058	0.00036	1	8260B	2/25/15 15:46	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0058	0.00044	1	8260B	2/25/15 15:46	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0058	0.00039	1	8260B	2/25/15 15:46	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0058	0.00029	1	8260B	2/25/15 15:46	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0058	0.00023	1	8260B	2/25/15 15:46	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0058	0.00028	1	8260B	2/25/15 15:46	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0058	0.00030	1	8260B	2/25/15 15:46	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0058	0.00035	1	8260B	2/25/15 15:46	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0058	0.00028	1	8260B	2/25/15 15:46	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.058	0.0014	1	8260B	2/25/15 15:46	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0035	0.00034	1	8260B	2/25/15 15:46	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0058	0.00049	1	8260B	2/25/15 15:46	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0058	0.00032	1	8260B	2/25/15 15:46	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0058	0.00033	1	8260B	2/25/15 15:46	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0058	0.00066	1	8260B	2/25/15 15:46	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.012	0.00072	1	8260B	2/25/15 15:46	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0058	0.00029	1	8260B	2/25/15 15:46	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0058	0.00031	1	8260B	2/25/15 15:46	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.012	0.00049	1	8260B	2/25/15 15:46	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0058	0.00042	1	8260B	2/25/15 15:46	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0058	0.00039	1	8260B	2/25/15 15:46	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-3
Prism Sample ID: 5020410-07
Prism Work Order: 5020410
Time Collected: 02/19/15 16:15
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0058	0.00025	1	8260B	2/25/15 15:46	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0058	0.00020	1	8260B	2/25/15 15:46	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0058	0.00024	1	8260B	2/25/15 15:46	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0058	0.00027	1	8260B	2/25/15 15:46	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.29	0.12	1	8260B	2/25/15 15:46	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0058	0.00022	1	8260B	2/25/15 15:46	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0058	0.00024	1	8260B	2/25/15 15:46	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0058	0.00035	1	8260B	2/25/15 15:46	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00054	1	8260B	2/25/15 15:46	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.058	0.00053	1	8260B	2/25/15 15:46	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00053	1	8260B	2/25/15 15:46	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.058	0.00050	1	8260B	2/25/15 15:46	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0058	0.00033	1	8260B	2/25/15 15:46	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00019	1	8260B	2/25/15 15:46	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.012	0.00018	1	8260B	2/25/15 15:46	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0058	0.00030	1	8260B	2/25/15 15:46	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0058	0.00035	1	8260B	2/25/15 15:46	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0058	0.00024	1	8260B	2/25/15 15:46	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0058	0.00028	1	8260B	2/25/15 15:46	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0058	0.00035	1	8260B	2/25/15 15:46	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.47	0.0048	1	8260B	2/25/15 15:46	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.12	0.00050	1	8260B	2/25/15 15:46	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.23	0.00041	1	8260B	2/25/15 15:46	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.47	0.00058	1	8260B	2/25/15 15:46	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0058	0.00020	1	8260B	2/25/15 15:46	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.12	0.00041	1	8260B	2/25/15 15:46	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0058	0.00028	1	8260B	2/25/15 15:46	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0058	0.00034	1	8260B	2/25/15 15:46	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0058	0.00035	1	8260B	2/25/15 15:46	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0058	0.00031	1	8260B	2/25/15 15:46	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0058	0.00038	1	8260B	2/25/15 15:46	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0058	0.00038	1	8260B	2/25/15 15:46	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.029	0.00080	1	8260B	2/25/15 15:46	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0058	0.00028	1	8260B	2/25/15 15:46	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.018	0.0011	1	8260B	2/25/15 15:46	MSC	P5B0475

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*121 %*	*70-130*	
Dibromofluoromethane	*126 %*	*84-123*	*SR*
Toluene-d8	*124 %*	*76-129*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-4
Prism Sample ID: 5020410-08
Prism Work Order: 5020410
Time Collected: 02/19/15 15:30
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	7.0	1.5	50	*8015C	2/26/15 3:06	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*98 %*		*50-137*	
General Chemistry Parameters									
% Solids	**71.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0066	0.00054	1	8260B	2/25/15 16:10	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0066	0.00032	1	8260B	2/25/15 16:10	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0066	0.00045	1	8260B	2/25/15 16:10	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0066	0.00059	1	8260B	2/25/15 16:10	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0066	0.00018	1	8260B	2/25/15 16:10	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0066	0.00029	1	8260B	2/25/15 16:10	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0066	0.00036	1	8260B	2/25/15 16:10	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0066	0.00038	1	8260B	2/25/15 16:10	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0066	0.00084	1	8260B	2/25/15 16:10	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0066	0.00049	1	8260B	2/25/15 16:10	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0066	0.00050	1	8260B	2/25/15 16:10	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0066	0.00027	1	8260B	2/25/15 16:10	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0066	0.00031	1	8260B	2/25/15 16:10	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0066	0.00039	1	8260B	2/25/15 16:10	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0066	0.00041	1	8260B	2/25/15 16:10	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0066	0.00050	1	8260B	2/25/15 16:10	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0066	0.00044	1	8260B	2/25/15 16:10	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0066	0.00033	1	8260B	2/25/15 16:10	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0066	0.00026	1	8260B	2/25/15 16:10	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0066	0.00031	1	8260B	2/25/15 16:10	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0066	0.00034	1	8260B	2/25/15 16:10	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0066	0.00039	1	8260B	2/25/15 16:10	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0066	0.00032	1	8260B	2/25/15 16:10	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.066	0.0016	1	8260B	2/25/15 16:10	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0040	0.00038	1	8260B	2/25/15 16:10	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0066	0.00055	1	8260B	2/25/15 16:10	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0066	0.00036	1	8260B	2/25/15 16:10	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0066	0.00037	1	8260B	2/25/15 16:10	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0066	0.00075	1	8260B	2/25/15 16:10	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.013	0.00082	1	8260B	2/25/15 16:10	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0066	0.00033	1	8260B	2/25/15 16:10	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0066	0.00035	1	8260B	2/25/15 16:10	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.013	0.00055	1	8260B	2/25/15 16:10	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0066	0.00048	1	8260B	2/25/15 16:10	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0066	0.00044	1	8260B	2/25/15 16:10	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-4
Prism Sample ID: 5020410-08
Prism Work Order: 5020410
Time Collected: 02/19/15 15:30
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0066	0.00028	1	8260B	2/25/15 16:10	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0066	0.00022	1	8260B	2/25/15 16:10	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0066	0.00027	1	8260B	2/25/15 16:10	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0066	0.00030	1	8260B	2/25/15 16:10	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.33	0.13	1	8260B	2/25/15 16:10	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0066	0.00025	1	8260B	2/25/15 16:10	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0066	0.00027	1	8260B	2/25/15 16:10	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0066	0.00039	1	8260B	2/25/15 16:10	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.013	0.00061	1	8260B	2/25/15 16:10	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.066	0.00060	1	8260B	2/25/15 16:10	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	**0.0055 J**	**mg/kg dry**	**0.13**	**0.00060**	**1**	**8260B**	**2/25/15 16:10**	**MSC**	**P5B0475**
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.066	0.00056	1	8260B	2/25/15 16:10	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0066	0.00037	1	8260B	2/25/15 16:10	MSC	P5B0475
Methyl-tert-Butyl Ether	**0.0031 J**	**mg/kg dry**	**0.013**	**0.00021**	**1**	**8260B**	**2/25/15 16:10**	**MSC**	**P5B0475**
Naphthalene	BRL	mg/kg dry	0.013	0.00021	1	8260B	2/25/15 16:10	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0066	0.00034	1	8260B	2/25/15 16:10	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0066	0.00039	1	8260B	2/25/15 16:10	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0066	0.00027	1	8260B	2/25/15 16:10	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0066	0.00032	1	8260B	2/25/15 16:10	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0066	0.00040	1	8260B	2/25/15 16:10	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.53	0.0055	1	8260B	2/25/15 16:10	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.13	0.00056	1	8260B	2/25/15 16:10	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.26	0.00046	1	8260B	2/25/15 16:10	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.53	0.00066	1	8260B	2/25/15 16:10	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0066	0.00022	1	8260B	2/25/15 16:10	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.13	0.00046	1	8260B	2/25/15 16:10	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0066	0.00031	1	8260B	2/25/15 16:10	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0066	0.00038	1	8260B	2/25/15 16:10	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0066	0.00040	1	8260B	2/25/15 16:10	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0066	0.00035	1	8260B	2/25/15 16:10	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0066	0.00043	1	8260B	2/25/15 16:10	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0066	0.00043	1	8260B	2/25/15 16:10	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.033	0.00091	1	8260B	2/25/15 16:10	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0066	0.00032	1	8260B	2/25/15 16:10	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.020	0.0012	1	8260B	2/25/15 16:10	MSC	P5B0475

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*119 %*	*70-130*	
Dibromofluoromethane	*125 %*	*84-123*	*SR*
Toluene-d8	*124 %*	*76-129*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-5
Prism Sample ID: 5020410-09
Prism Work Order: 5020410
Time Collected: 02/19/15 16:20
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.8	1.2	50	*8015C	2/26/15 3:34	ANG	P5B0442
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*100 %*		*50-137*	
General Chemistry Parameters									
% Solids	**75.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0071	0.00058	1	8260B	2/25/15 16:34	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0071	0.00034	1	8260B	2/25/15 16:34	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0071	0.00048	1	8260B	2/25/15 16:34	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0071	0.00063	1	8260B	2/25/15 16:34	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0071	0.00020	1	8260B	2/25/15 16:34	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0071	0.00031	1	8260B	2/25/15 16:34	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0071	0.00039	1	8260B	2/25/15 16:34	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0071	0.00040	1	8260B	2/25/15 16:34	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0071	0.00091	1	8260B	2/25/15 16:34	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0071	0.00053	1	8260B	2/25/15 16:34	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0071	0.00054	1	8260B	2/25/15 16:34	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0071	0.00029	1	8260B	2/25/15 16:34	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0071	0.00033	1	8260B	2/25/15 16:34	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0071	0.00042	1	8260B	2/25/15 16:34	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0071	0.00044	1	8260B	2/25/15 16:34	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0071	0.00054	1	8260B	2/25/15 16:34	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0071	0.00047	1	8260B	2/25/15 16:34	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0071	0.00036	1	8260B	2/25/15 16:34	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0071	0.00028	1	8260B	2/25/15 16:34	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0071	0.00034	1	8260B	2/25/15 16:34	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0071	0.00037	1	8260B	2/25/15 16:34	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0071	0.00042	1	8260B	2/25/15 16:34	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0071	0.00034	1	8260B	2/25/15 16:34	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.071	0.0017	1	8260B	2/25/15 16:34	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0043	0.00041	1	8260B	2/25/15 16:34	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0071	0.00059	1	8260B	2/25/15 16:34	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0071	0.00039	1	8260B	2/25/15 16:34	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0071	0.00040	1	8260B	2/25/15 16:34	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0071	0.00081	1	8260B	2/25/15 16:34	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.014	0.00088	1	8260B	2/25/15 16:34	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0071	0.00035	1	8260B	2/25/15 16:34	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0071	0.00038	1	8260B	2/25/15 16:34	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.014	0.00059	1	8260B	2/25/15 16:34	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0071	0.00051	1	8260B	2/25/15 16:34	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0071	0.00048	1	8260B	2/25/15 16:34	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-5
Prism Sample ID: 5020410-09
Prism Work Order: 5020410
Time Collected: 02/19/15 16:20
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0071	0.00030	1	8260B	2/25/15 16:34	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0071	0.00024	1	8260B	2/25/15 16:34	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0071	0.00029	1	8260B	2/25/15 16:34	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0071	0.00032	1	8260B	2/25/15 16:34	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.36	0.14	1	8260B	2/25/15 16:34	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0071	0.00027	1	8260B	2/25/15 16:34	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0071	0.00029	1	8260B	2/25/15 16:34	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0071	0.00042	1	8260B	2/25/15 16:34	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.014	0.00065	1	8260B	2/25/15 16:34	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.071	0.00064	1	8260B	2/25/15 16:34	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.14	0.00064	1	8260B	2/25/15 16:34	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.071	0.00061	1	8260B	2/25/15 16:34	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0071	0.00040	1	8260B	2/25/15 16:34	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.014	0.00023	1	8260B	2/25/15 16:34	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.014	0.00022	1	8260B	2/25/15 16:34	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0071	0.00036	1	8260B	2/25/15 16:34	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0071	0.00042	1	8260B	2/25/15 16:34	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0071	0.00029	1	8260B	2/25/15 16:34	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0071	0.00034	1	8260B	2/25/15 16:34	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0071	0.00043	1	8260B	2/25/15 16:34	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.57	0.0059	1	8260B	2/25/15 16:34	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.14	0.00061	1	8260B	2/25/15 16:34	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.28	0.00050	1	8260B	2/25/15 16:34	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.57	0.00071	1	8260B	2/25/15 16:34	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0071	0.00024	1	8260B	2/25/15 16:34	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.14	0.00050	1	8260B	2/25/15 16:34	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0071	0.00034	1	8260B	2/25/15 16:34	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0071	0.00041	1	8260B	2/25/15 16:34	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0071	0.00042	1	8260B	2/25/15 16:34	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0071	0.00037	1	8260B	2/25/15 16:34	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0071	0.00046	1	8260B	2/25/15 16:34	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0071	0.00046	1	8260B	2/25/15 16:34	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.036	0.00097	1	8260B	2/25/15 16:34	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0071	0.00034	1	8260B	2/25/15 16:34	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.021	0.0013	1	8260B	2/25/15 16:34	MSC	P5B0475

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*119 %*	*70-130*	
Dibromofluoromethane	*124 %*	*84-123*	*SR*
Toluene-d8	*122 %*	*76-129*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz B3 (8-10)
Prism Sample ID: 5020410-10
Prism Work Order: 5020410
Time Collected: 02/19/15 12:05
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	**19**	**mg/kg dry**	**6.6**	**1.4**	**50**	***8015C**	**2/26/15 4:03**	**ANG**	**P5B0442**
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*98 %*		*50-137*	
General Chemistry Parameters									
% Solids	**72.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0068	0.00056	1	8260B	2/25/15 16:57	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0068	0.00033	1	8260B	2/25/15 16:57	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0068	0.00046	1	8260B	2/25/15 16:57	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0068	0.00061	1	8260B	2/25/15 16:57	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0068	0.00019	1	8260B	2/25/15 16:57	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0068	0.00030	1	8260B	2/25/15 16:57	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0068	0.00037	1	8260B	2/25/15 16:57	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0068	0.00039	1	8260B	2/25/15 16:57	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0068	0.00087	1	8260B	2/25/15 16:57	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0068	0.00051	1	8260B	2/25/15 16:57	MSC	P5B0475
1,2,4-Trimethylbenzene	**0.050**	**mg/kg dry**	**0.0068**	**0.00052**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
1,2-Dibromoethane	BRL	mg/kg dry	0.0068	0.00027	1	8260B	2/25/15 16:57	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0068	0.00032	1	8260B	2/25/15 16:57	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0068	0.00041	1	8260B	2/25/15 16:57	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0068	0.00042	1	8260B	2/25/15 16:57	MSC	P5B0475
1,3,5-Trimethylbenzene	**0.018**	**mg/kg dry**	**0.0068**	**0.00052**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0068	0.00045	1	8260B	2/25/15 16:57	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0068	0.00034	1	8260B	2/25/15 16:57	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0068	0.00027	1	8260B	2/25/15 16:57	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0068	0.00033	1	8260B	2/25/15 16:57	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0068	0.00035	1	8260B	2/25/15 16:57	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0068	0.00041	1	8260B	2/25/15 16:57	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0068	0.00033	1	8260B	2/25/15 16:57	MSC	P5B0475
Acetone	**0.63 E**	**mg/kg dry**	**0.068**	**0.0017**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
Benzene	BRL	mg/kg dry	0.0041	0.00040	1	8260B	2/25/15 16:57	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0068	0.00057	1	8260B	2/25/15 16:57	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0068	0.00038	1	8260B	2/25/15 16:57	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0068	0.00038	1	8260B	2/25/15 16:57	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0068	0.00078	1	8260B	2/25/15 16:57	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.014	0.00084	1	8260B	2/25/15 16:57	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0068	0.00034	1	8260B	2/25/15 16:57	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0068	0.00036	1	8260B	2/25/15 16:57	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.014	0.00057	1	8260B	2/25/15 16:57	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0068	0.00049	1	8260B	2/25/15 16:57	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0068	0.00046	1	8260B	2/25/15 16:57	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Hertz B3 (8-10)
Prism Sample ID: 5020410-10
Prism Work Order: 5020410
Time Collected: 02/19/15 12:05
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0068	0.00029	1	8260B	2/25/15 16:57	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0068	0.00023	1	8260B	2/25/15 16:57	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0068	0.00028	1	8260B	2/25/15 16:57	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0068	0.00031	1	8260B	2/25/15 16:57	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.34	0.14	1	8260B	2/25/15 16:57	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0068	0.00026	1	8260B	2/25/15 16:57	MSC	P5B0475
Isopropyl Ether	**0.0099**	**mg/kg dry**	**0.0068**	**0.00028**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0068	0.00040	1	8260B	2/25/15 16:57	MSC	P5B0475
m,p-Xylenes	**0.011 J**	**mg/kg dry**	**0.014**	**0.00063**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
Methyl Butyl Ketone (2-Hexanone)	**0.17**	**mg/kg dry**	**0.068**	**0.00062**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
Methyl Ethyl Ketone (2-Butanone)	**0.58 E**	**mg/kg dry**	**0.14**	**0.00062**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
Methyl Isobutyl Ketone	**0.051 J**	**mg/kg dry**	**0.068**	**0.00058**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
Methylene Chloride	BRL	mg/kg dry	0.0068	0.00038	1	8260B	2/25/15 16:57	MSC	P5B0475
Methyl-tert-Butyl Ether	**0.21**	**mg/kg dry**	**0.014**	**0.00022**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
Naphthalene	**0.099**	**mg/kg dry**	**0.014**	**0.00022**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
n-Butylbenzene	**0.010**	**mg/kg dry**	**0.0068**	**0.00035**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
n-Propylbenzene	**0.0048 J**	**mg/kg dry**	**0.0068**	**0.00041**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
o-Xylene	**0.0075**	**mg/kg dry**	**0.0068**	**0.00028**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
sec-Butylbenzene	**0.0028 J**	**mg/kg dry**	**0.0068**	**0.00033**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
Styrene	BRL	mg/kg dry	0.0068	0.00041	1	8260B	2/25/15 16:57	MSC	P5B0475
tert-Amyl Alcohol	**3.7 E**	**mg/kg dry**	**0.55**	**0.0057**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
tert-Amyl Methyl Ether	**0.0085 J**	**mg/kg dry**	**0.14**	**0.00058**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**
tert-Butyl Alcohol	BRL	mg/kg dry	0.27	0.00048	1	8260B	2/25/15 16:57	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.55	0.00068	1	8260B	2/25/15 16:57	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0068	0.00023	1	8260B	2/25/15 16:57	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.14	0.00048	1	8260B	2/25/15 16:57	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0068	0.00033	1	8260B	2/25/15 16:57	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0068	0.00039	1	8260B	2/25/15 16:57	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0068	0.00041	1	8260B	2/25/15 16:57	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0068	0.00036	1	8260B	2/25/15 16:57	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0068	0.00044	1	8260B	2/25/15 16:57	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0068	0.00044	1	8260B	2/25/15 16:57	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.034	0.00094	1	8260B	2/25/15 16:57	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0068	0.00033	1	8260B	2/25/15 16:57	MSC	P5B0475
Xylenes, total	**0.018 J**	**mg/kg dry**	**0.021**	**0.0013**	**1**	**8260B**	**2/25/15 16:57**	**MSC**	**P5B0475**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*120 %*	*70-130*
Dibromofluoromethane	*113 %*	*84-123*
Toluene-d8	*123 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-2 (10-12)
Prism Sample ID: 5020410-11
Prism Work Order: 5020410
Time Collected: 02/19/15 15:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	13	0.75	1	MADEP EPH	3/2/15 11:51	KC	P5B0437
C19-C36 Aliphatics	BRL	mg/kg dry	13	3.0	1	MADEP EPH	3/2/15 11:51	KC	P5B0437
C11-C22 Aromatics	**5.1 J**	**mg/kg dry**	**13**	**2.4**	**1**	**MADEP EPH**	**3/2/15 11:51**	**KC**	**P5B0437**

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*53 %*	*40-140*
o-Terphenyl	*74 %*	*40-140*
2-Fluorobiphenyl	*83 %*	*40-140*
2-Bromonaphthalene	*78 %*	*40-140*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**76.0**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**2/26/15 16:05**	**MJO**	**P5B0511**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.43	0.068	1	8270D	2/24/15 20:23	KC	P5B0420
1,2-Dichlorobenzene	BRL	mg/kg dry	0.43	0.066	1	8270D	2/24/15 20:23	KC	P5B0420
1,3-Dichlorobenzene	BRL	mg/kg dry	0.43	0.061	1	8270D	2/24/15 20:23	KC	P5B0420
1,4-Dichlorobenzene	BRL	mg/kg dry	0.43	0.064	1	8270D	2/24/15 20:23	KC	P5B0420
1-Methylnaphthalene	BRL	mg/kg dry	0.43	0.084	1	8270D	2/24/15 20:23	KC	P5B0420
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.43	0.081	1	8270D	2/24/15 20:23	KC	P5B0420
2,4-Dichlorophenol	BRL	mg/kg dry	0.43	0.084	1	8270D	2/24/15 20:23	KC	P5B0420
2,4-Dimethylphenol	BRL	mg/kg dry	0.43	0.067	1	8270D	2/24/15 20:23	KC	P5B0420
2,4-Dinitrophenol	BRL CCV	mg/kg dry	0.43	0.061	1	8270D	2/24/15 20:23	KC	P5B0420
2,4-Dinitrotoluene	BRL	mg/kg dry	0.43	0.053	1	8270D	2/24/15 20:23	KC	P5B0420
2,6-Dinitrotoluene	BRL	mg/kg dry	0.43	0.058	1	8270D	2/24/15 20:23	KC	P5B0420
2-Chloronaphthalene	BRL	mg/kg dry	0.43	0.063	1	8270D	2/24/15 20:23	KC	P5B0420
2-Chlorophenol	BRL	mg/kg dry	0.43	0.062	1	8270D	2/24/15 20:23	KC	P5B0420
2-Methylnaphthalene	BRL	mg/kg dry	0.43	0.069	1	8270D	2/24/15 20:23	KC	P5B0420
2-Methylphenol	BRL	mg/kg dry	0.43	0.056	1	8270D	2/24/15 20:23	KC	P5B0420
2-Nitrophenol	BRL	mg/kg dry	0.43	0.079	1	8270D	2/24/15 20:23	KC	P5B0420
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.43	0.086	1	8270D	2/24/15 20:23	KC	P5B0420
3/4-Methylphenol	BRL	mg/kg dry	0.43	0.054	1	8270D	2/24/15 20:23	KC	P5B0420
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.43	0.065	1	8270D	2/24/15 20:23	KC	P5B0420
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.43	0.075	1	8270D	2/24/15 20:23	KC	P5B0420
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.43	0.061	1	8270D	2/24/15 20:23	KC	P5B0420
4-Chloroaniline	BRL	mg/kg dry	0.43	0.052	1	8270D	2/24/15 20:23	KC	P5B0420
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.43	0.056	1	8270D	2/24/15 20:23	KC	P5B0420
4-Nitrophenol	BRL	mg/kg dry	0.43	0.067	1	8270D	2/24/15 20:23	KC	P5B0420
Acenaphthene	BRL	mg/kg dry	0.43	0.059	1	8270D	2/24/15 20:23	KC	P5B0420
Acenaphthylene	BRL	mg/kg dry	0.43	0.063	1	8270D	2/24/15 20:23	KC	P5B0420
Anthracene	BRL	mg/kg dry	0.43	0.070	1	8270D	2/24/15 20:23	KC	P5B0420
Azobenzene	BRL	mg/kg dry	0.43	0.057	1	8270D	2/24/15 20:23	KC	P5B0420
Benzo(a)anthracene	BRL	mg/kg dry	0.43	0.057	1	8270D	2/24/15 20:23	KC	P5B0420
Benzo(a)pyrene	BRL	mg/kg dry	0.43	0.047	1	8270D	2/24/15 20:23	KC	P5B0420

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-2 (10-12)
Prism Sample ID: 5020410-11
Prism Work Order: 5020410
Time Collected: 02/19/15 15:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.43	0.050	1	8270D	2/24/15 20:23	KC	P5B0420
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.43	0.048	1	8270D	2/24/15 20:23	KC	P5B0420
Benzo(k)fluoranthene	BRL	mg/kg dry	0.43	0.057	1	8270D	2/24/15 20:23	KC	P5B0420
Benzoic Acid	BRL CCV	mg/kg dry	0.43	0.037	1	8270D	2/24/15 20:23	KC	P5B0420
Benzyl alcohol	BRL	mg/kg dry	0.43	0.057	1	8270D	2/24/15 20:23	KC	P5B0420
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.43	0.075	1	8270D	2/24/15 20:23	KC	P5B0420
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.43	0.061	1	8270D	2/24/15 20:23	KC	P5B0420
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.43	0.074	1	8270D	2/24/15 20:23	KC	P5B0420
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.43	0.064	1	8270D	2/24/15 20:23	KC	P5B0420
Butyl benzyl phthalate	BRL	mg/kg dry	0.43	0.062	1	8270D	2/24/15 20:23	KC	P5B0420
Chrysene	BRL	mg/kg dry	0.43	0.055	1	8270D	2/24/15 20:23	KC	P5B0420
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.43	0.053	1	8270D	2/24/15 20:23	KC	P5B0420
Dibenzofuran	BRL	mg/kg dry	0.43	0.066	1	8270D	2/24/15 20:23	KC	P5B0420
Diethyl phthalate	BRL	mg/kg dry	0.43	0.060	1	8270D	2/24/15 20:23	KC	P5B0420
Dimethyl phthalate	BRL	mg/kg dry	0.43	0.057	1	8270D	2/24/15 20:23	KC	P5B0420
Di-n-butyl phthalate	BRL	mg/kg dry	0.43	0.062	1	8270D	2/24/15 20:23	KC	P5B0420
Di-n-octyl phthalate	BRL	mg/kg dry	0.43	0.053	1	8270D	2/24/15 20:23	KC	P5B0420
Fluoranthene	BRL	mg/kg dry	0.43	0.055	1	8270D	2/24/15 20:23	KC	P5B0420
Fluorene	BRL	mg/kg dry	0.43	0.062	1	8270D	2/24/15 20:23	KC	P5B0420
Hexachlorobenzene	BRL	mg/kg dry	0.43	0.069	1	8270D	2/24/15 20:23	KC	P5B0420
Hexachlorobutadiene	BRL	mg/kg dry	0.43	0.078	1	8270D	2/24/15 20:23	KC	P5B0420
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.43	0.078	1	8270D	2/24/15 20:23	KC	P5B0420
Hexachloroethane	BRL	mg/kg dry	0.43	0.073	1	8270D	2/24/15 20:23	KC	P5B0420
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.43	0.050	1	8270D	2/24/15 20:23	KC	P5B0420
Isophorone	BRL	mg/kg dry	0.43	0.059	1	8270D	2/24/15 20:23	KC	P5B0420
Naphthalene	BRL	mg/kg dry	0.43	0.070	1	8270D	2/24/15 20:23	KC	P5B0420
Nitrobenzene	BRL	mg/kg dry	0.43	0.062	1	8270D	2/24/15 20:23	KC	P5B0420
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.43	0.068	1	8270D	2/24/15 20:23	KC	P5B0420
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.43	0.066	1	8270D	2/24/15 20:23	KC	P5B0420
Pentachlorophenol	BRL	mg/kg dry	0.43	0.051	1	8270D	2/24/15 20:23	KC	P5B0420
Phenanthrene	BRL	mg/kg dry	0.43	0.056	1	8270D	2/24/15 20:23	KC	P5B0420
Phenol	BRL	mg/kg dry	0.43	0.064	1	8270D	2/24/15 20:23	KC	P5B0420
Pyrene	BRL	mg/kg dry	0.43	0.058	1	8270D	2/24/15 20:23	KC	P5B0420

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*116 %*	*39-132*	
2-Fluorobiphenyl	*106 %*	*44-115*	
2-Fluorophenol	*103 %*	*35-115*	
Nitrobenzene-d5	*93 %*	*37-122*	
Phenol-d5	*98 %*	*34-121*	
Terphenyl-d14	*128 %*	*54-127*	*SR*

Total Metals

Chromium	**24**	**mg/kg dry**	**0.33**	**0.054**	**1**	***6010C**	**2/25/15 19:54**	**BGM**	**P5B0463**
Lead	**8.0**	**mg/kg dry**	**0.33**	**0.050**	**1**	***6010C**	**2/25/15 19:54**	**BGM**	**P5B0463**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-2 (10-12)
Prism Sample ID: 5020410-11
Prism Work Order: 5020410
Time Collected: 02/19/15 15:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0057	0.00046	1	8260B	2/25/15 17:21	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0057	0.00027	1	8260B	2/25/15 17:21	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0057	0.00038	1	8260B	2/25/15 17:21	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0057	0.00050	1	8260B	2/25/15 17:21	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0057	0.00016	1	8260B	2/25/15 17:21	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0057	0.00025	1	8260B	2/25/15 17:21	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00031	1	8260B	2/25/15 17:21	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0057	0.00032	1	8260B	2/25/15 17:21	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0057	0.00072	1	8260B	2/25/15 17:21	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0057	0.00042	1	8260B	2/25/15 17:21	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0057	0.00043	1	8260B	2/25/15 17:21	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0057	0.00023	1	8260B	2/25/15 17:21	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	2/25/15 17:21	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0057	0.00034	1	8260B	2/25/15 17:21	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0057	0.00035	1	8260B	2/25/15 17:21	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0057	0.00043	1	8260B	2/25/15 17:21	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00037	1	8260B	2/25/15 17:21	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0057	0.00028	1	8260B	2/25/15 17:21	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00022	1	8260B	2/25/15 17:21	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0057	0.00027	1	8260B	2/25/15 17:21	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0057	0.00029	1	8260B	2/25/15 17:21	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	2/25/15 17:21	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	2/25/15 17:21	MSC	P5B0475
Acetone	**0.061**	**mg/kg dry**	**0.057**	**0.0014**	**1**	**8260B**	**2/25/15 17:21**	**MSC**	**P5B0475**
Benzene	BRL	mg/kg dry	0.0034	0.00033	1	8260B	2/25/15 17:21	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0057	0.00047	1	8260B	2/25/15 17:21	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0057	0.00031	1	8260B	2/25/15 17:21	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0057	0.00032	1	8260B	2/25/15 17:21	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0057	0.00064	1	8260B	2/25/15 17:21	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.011	0.00070	1	8260B	2/25/15 17:21	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0057	0.00028	1	8260B	2/25/15 17:21	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0057	0.00030	1	8260B	2/25/15 17:21	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.011	0.00047	1	8260B	2/25/15 17:21	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0057	0.00041	1	8260B	2/25/15 17:21	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0057	0.00038	1	8260B	2/25/15 17:21	MSC	P5B0475
cis-1,2-Dichloroethylene	**0.011**	**mg/kg dry**	**0.0057**	**0.00024**	**1**	**8260B**	**2/25/15 17:21**	**MSC**	**P5B0475**
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00019	1	8260B	2/25/15 17:21	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0057	0.00023	1	8260B	2/25/15 17:21	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0057	0.00026	1	8260B	2/25/15 17:21	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.28	0.11	1	8260B	2/25/15 17:21	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0057	0.00022	1	8260B	2/25/15 17:21	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0057	0.00023	1	8260B	2/25/15 17:21	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Budget TMW-2 (10-12)
Prism Sample ID: 5020410-11
Prism Work Order: 5020410
Time Collected: 02/19/15 15:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	**0.025**	**mg/kg dry**	**0.0057**	**0.00033**	**1**	**8260B**	**2/25/15 17:21**	**MSC**	**P5B0475**
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00052	1	8260B	2/25/15 17:21	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.057	0.00051	1	8260B	2/25/15 17:21	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	**0.0096 J**	**mg/kg dry**	**0.11**	**0.00051**	**1**	**8260B**	**2/25/15 17:21**	**MSC**	**P5B0475**
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.057	0.00048	1	8260B	2/25/15 17:21	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0057	0.00032	1	8260B	2/25/15 17:21	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00018	1	8260B	2/25/15 17:21	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.011	0.00018	1	8260B	2/25/15 17:21	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0057	0.00029	1	8260B	2/25/15 17:21	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	2/25/15 17:21	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0057	0.00023	1	8260B	2/25/15 17:21	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	2/25/15 17:21	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	2/25/15 17:21	MSC	P5B0475
tert-Amyl Alcohol	**0.0070 J**	**mg/kg dry**	**0.45**	**0.0047**	**1**	**8260B**	**2/25/15 17:21**	**MSC**	**P5B0475**
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00048	1	8260B	2/25/15 17:21	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.23	0.00040	1	8260B	2/25/15 17:21	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.45	0.00056	1	8260B	2/25/15 17:21	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0057	0.00019	1	8260B	2/25/15 17:21	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00040	1	8260B	2/25/15 17:21	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	2/25/15 17:21	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0057	0.00032	1	8260B	2/25/15 17:21	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	2/25/15 17:21	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00030	1	8260B	2/25/15 17:21	MSC	P5B0475
Trichloroethylene	**0.0042 J**	**mg/kg dry**	**0.0057**	**0.00037**	**1**	**8260B**	**2/25/15 17:21**	**MSC**	**P5B0475**
Trichlorofluoromethane	BRL	mg/kg dry	0.0057	0.00037	1	8260B	2/25/15 17:21	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.028	0.00077	1	8260B	2/25/15 17:21	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0057	0.00027	1	8260B	2/25/15 17:21	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.017	0.0011	1	8260B	2/25/15 17:21	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*121 %*	*70-130*
Dibromofluoromethane	*121 %*	*84-123*
Toluene-d8	*122 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.1	0.20	100	MADEP VPH	2/24/15 21:00	ANG	P5B0436
C9-C12 Aliphatics	**1.9 J**	**mg/kg dry**	**5.1**	**0.47**	**100**	**MADEP VPH**	**2/24/15 21:00**	**ANG**	**P5B0436**
C9-C10 Aromatics	**0.33 J**	**mg/kg dry**	**5.1**	**0.044**	**100**	**MADEP VPH**	**2/24/15 21:00**	**ANG**	**P5B0436**

Surrogate	Recovery	Control Limits	
2,5-Dibromotoluene (PID)	*127 %*	*70-130*	
2,5-Dibromotoluene (FID)	*136 %*	*70-130*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020410-12
Prism Work Order: 5020410
Time Collected: 02/19/15 00:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	2/23/15 18:30	VHL	P5B0450
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	2/23/15 18:30	VHL	P5B0450
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	2/23/15 18:30	VHL	P5B0450
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/23/15 18:30	VHL	P5B0450
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	2/23/15 18:30	VHL	P5B0450
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	2/23/15 18:30	VHL	P5B0450
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	2/23/15 18:30	VHL	P5B0450
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	2/23/15 18:30	VHL	P5B0450
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	2/23/15 18:30	VHL	P5B0450
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	2/23/15 18:30	VHL	P5B0450
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	2/23/15 18:30	VHL	P5B0450
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	2/23/15 18:30	VHL	P5B0450
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	2/23/15 18:30	VHL	P5B0450
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	2/23/15 18:30	VHL	P5B0450
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/23/15 18:30	VHL	P5B0450
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	2/23/15 18:30	VHL	P5B0450
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	2/23/15 18:30	VHL	P5B0450
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	2/23/15 18:30	VHL	P5B0450
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	2/23/15 18:30	VHL	P5B0450
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	2/23/15 18:30	VHL	P5B0450
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	2/23/15 18:30	VHL	P5B0450
2-Chloroethyl Vinyl Ether	BRL A	ug/L	5.0	0.37	1	8260B	2/23/15 18:30	VHL	P5B0450
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	2/23/15 18:30	VHL	P5B0450
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	2/23/15 18:30	VHL	P5B0450
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	2/23/15 18:30	VHL	P5B0450
Acetone	BRL	ug/L	5.0	0.31	1	8260B	2/23/15 18:30	VHL	P5B0450
Acrolein	BRL	ug/L	20	0.20	1	8260B	2/23/15 18:30	VHL	P5B0450
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	2/23/15 18:30	VHL	P5B0450
Benzene	BRL	ug/L	0.50	0.048	1	8260B	2/23/15 18:30	VHL	P5B0450
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	2/23/15 18:30	VHL	P5B0450
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	2/23/15 18:30	VHL	P5B0450
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	2/23/15 18:30	VHL	P5B0450
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	2/23/15 18:30	VHL	P5B0450
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	2/23/15 18:30	VHL	P5B0450
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	2/23/15 18:30	VHL	P5B0450
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	2/23/15 18:30	VHL	P5B0450
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	2/23/15 18:30	VHL	P5B0450
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	2/23/15 18:30	VHL	P5B0450
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	2/23/15 18:30	VHL	P5B0450
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	2/23/15 18:30	VHL	P5B0450
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	2/23/15 18:30	VHL	P5B0450
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	2/23/15 18:30	VHL	P5B0450

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020410-12
Prism Work Order: 5020410
Time Collected: 02/19/15 00:00
Time Submitted: 02/20/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	2/23/15 18:30	VHL	P5B0450
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	2/23/15 18:30	VHL	P5B0450
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	2/23/15 18:30	VHL	P5B0450
Ethanol	BRL	ug/L	200	27	1	8260B	2/23/15 18:30	VHL	P5B0450
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	2/23/15 18:30	VHL	P5B0450
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	2/23/15 18:30	VHL	P5B0450
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	2/23/15 18:30	VHL	P5B0450
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	2/23/15 18:30	VHL	P5B0450
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	2/23/15 18:30	VHL	P5B0450
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	2/23/15 18:30	VHL	P5B0450
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	2/23/15 18:30	VHL	P5B0450
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	2/23/15 18:30	VHL	P5B0450
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	2/23/15 18:30	VHL	P5B0450
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	2/23/15 18:30	VHL	P5B0450
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	2/23/15 18:30	VHL	P5B0450
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	2/23/15 18:30	VHL	P5B0450
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	2/23/15 18:30	VHL	P5B0450
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	2/23/15 18:30	VHL	P5B0450
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	2/23/15 18:30	VHL	P5B0450
Styrene	BRL	ug/L	0.50	0.047	1	8260B	2/23/15 18:30	VHL	P5B0450
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	8260B	2/23/15 18:30	VHL	P5B0450
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	8260B	2/23/15 18:30	VHL	P5B0450
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	8260B	2/23/15 18:30	VHL	P5B0450
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	2/23/15 18:30	VHL	P5B0450
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	8260B	2/23/15 18:30	VHL	P5B0450
tert-Butyl Formate	BRL	ug/L	10	0.25	1	8260B	2/23/15 18:30	VHL	P5B0450
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	2/23/15 18:30	VHL	P5B0450
Toluene	BRL	ug/L	0.50	0.044	1	8260B	2/23/15 18:30	VHL	P5B0450
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	2/23/15 18:30	VHL	P5B0450
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	2/23/15 18:30	VHL	P5B0450
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	2/23/15 18:30	VHL	P5B0450
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	2/23/15 18:30	VHL	P5B0450
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	2/23/15 18:30	VHL	P5B0450
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	2/23/15 18:30	VHL	P5B0450

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*99 %*	*77-123*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
Blank (P5B0450-BLK1)				Prepared & Analyzed: 02/23/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	5.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethanol	BRL	200	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
Blank (P5B0450-BLK1)				Prepared & Analyzed: 02/23/15						
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Amyl Alcohol	BRL	10	ug/L							
tert-Amyl Methyl Ether	BRL	10	ug/L							
tert-Butyl Alcohol	BRL	10	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
tert-Butyl Ethyl Ether	BRL	10	ug/L							
tert-Butyl Formate	BRL	10	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/L*	*25.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*26.4*		*ug/L*	*25.00*		*106*	*75-129*			
Surrogate: Toluene-d8	*25.4*		*ug/L*	*25.00*		*102*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
LCS (P5B0450-BS1)				Prepared & Analyzed: 02/23/15						
1,1,1,2-Tetrachloroethane	20.0	0.50	ug/L	20.00		100	79-134			
1,1,1-Trichloroethane	21.0	0.50	ug/L	20.00		105	75-136			
1,1,2,2-Tetrachloroethane	18.4	0.50	ug/L	20.00		92	62-127			
1,1,2-Trichloroethane	19.7	0.50	ug/L	20.00		98	70-140			
1,1-Dichloroethane	19.4	0.50	ug/L	20.00		97	78-130			
1,1-Dichloroethylene	21.8	0.50	ug/L	20.00		109	70-154			
1,1-Dichloropropylene	23.3	0.50	ug/L	20.00		117	71-136			
1,2,3-Trichlorobenzene	20.2	2.0	ug/L	20.00		101	58-144			
1,2,3-Trichloropropane	17.8	1.0	ug/L	20.00		89	71-127			
1,2,4-Trichlorobenzene	21.3	1.0	ug/L	20.00		106	66-139			
1,2,4-Trimethylbenzene	21.4	0.50	ug/L	20.00		107	75-133			
1,2-Dibromo-3-chloropropane	19.4	2.0	ug/L	20.00		97	63-134			
1,2-Dibromoethane	20.4	0.50	ug/L	20.00		102	77-135			
1,2-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	78-128			
1,2-Dichloroethane	19.5	0.50	ug/L	20.00		97	68-131			
1,2-Dichloropropane	19.6	0.50	ug/L	20.00		98	77-130			
1,3,5-Trimethylbenzene	22.1	0.50	ug/L	20.00		110	75-131			
1,3-Dichlorobenzene	20.1	0.50	ug/L	20.00		101	77-125			
1,3-Dichloropropane	19.1	0.50	ug/L	20.00		95	76-132			
1,4-Dichlorobenzene	19.7	0.50	ug/L	20.00		98	75-126			
2,2-Dichloropropane	21.8	2.0	ug/L	20.00		109	29-149			
2-Chloroethyl Vinyl Ether	11.3	5.0	ug/L	20.00		57	34-144			
2-Chlorotoluene	20.9	0.50	ug/L	20.00		104	74-126			
4-Chlorotoluene	20.6	0.50	ug/L	20.00		103	78-129			
4-Isopropyltoluene	22.6	0.50	ug/L	20.00		113	69-132			
Acetone	40.1	5.0	ug/L	40.00		100	40-166			
Acrolein	41.9	20	ug/L	40.00		105	70-130			
Acrylonitrile	41.0	20	ug/L	40.00		102	81-127			
Benzene	21.4	0.50	ug/L	20.00		107	77-128			
Bromobenzene	19.8	0.50	ug/L	20.00		99	78-129			
Bromochloromethane	21.3	0.50	ug/L	20.00		107	78-135			
Bromodichloromethane	18.3	0.50	ug/L	20.00		92	76-138			
Bromoform	17.7	1.0	ug/L	20.00		88	71-135			
Bromomethane	17.2	1.0	ug/L	20.00		86	41-168			
Carbon disulfide	19.9	5.0	ug/L	20.00		100	59-135			
Carbon Tetrachloride	21.2	0.50	ug/L	20.00		106	72-142			
Chlorobenzene	20.1	0.50	ug/L	20.00		100	78-119			
Chloroethane	21.6	0.50	ug/L	20.00		108	57-142			
Chloroform	18.7	0.50	ug/L	20.00		93	77-130			
Chloromethane	20.9	0.50	ug/L	20.00		104	47-145			
cis-1,2-Dichloroethylene	19.8	0.50	ug/L	20.00		99	76-141			
cis-1,3-Dichloropropylene	21.1	0.50	ug/L	20.00		106	65-140			
Dibromochloromethane	18.3	0.50	ug/L	20.00		91	75-134			
Dibromomethane	18.0	0.50	ug/L	20.00		90	76-138			
Dichlorodifluoromethane	23.6	1.0	ug/L	20.00		118	28-163			
Ethanol	328	200	ug/L	500.0		66	70-130			L1

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
LCS (P5B0450-BS1)				Prepared & Analyzed: 02/23/15						
Ethylbenzene	20.4	0.50	ug/L	20.00		102	80-127			
Hexachlorobutadiene	22.2	2.0	ug/L	20.00		111	61-134			
Isopropyl Ether	17.7	0.50	ug/L	20.00		89	60-154			
Isopropylbenzene (Cumene)	23.0	0.50	ug/L	20.00		115	70-130			
m,p-Xylenes	42.4	1.0	ug/L	40.00		106	77-133			
Methyl Butyl Ketone (2-Hexanone)	19.3	5.0	ug/L	20.00		97	64-137			
Methyl Ethyl Ketone (2-Butanone)	20.4	5.0	ug/L	20.00		102	71-134			
Methyl Isobutyl Ketone	18.5	5.0	ug/L	20.00		92	69-134			
Methylene Chloride	20.6	1.0	ug/L	20.00		103	73-131			
Methyl-tert-Butyl Ether	19.6	0.50	ug/L	20.00		98	68-135			
Naphthalene	20.3	1.0	ug/L	20.00		101	64-136			
n-Butylbenzene	22.4	1.0	ug/L	20.00		112	68-134			
n-Propylbenzene	22.3	0.50	ug/L	20.00		112	72-132			
o-Xylene	21.1	0.50	ug/L	20.00		106	78-128			
sec-Butylbenzene	21.2	0.50	ug/L	20.00		106	71-131			
Styrene	21.3	0.50	ug/L	20.00		107	78-129			
tert-Amyl Alcohol	25.0	10	ug/L	20.00		125	70-130			
tert-Amyl Methyl Ether	41.1	10	ug/L	40.00		103	70-130			
tert-Butyl Alcohol	32.4	10	ug/L	40.00		81	70-130			
tert-Butylbenzene	22.1	0.50	ug/L	20.00		111	70-132			
tert-Butyl Ethyl Ether	40.2	10	ug/L	40.00		101	70-130			
tert-Butyl Formate	41.4	10	ug/L	40.00		104	70-130			
Tetrachloroethylene	20.1	0.50	ug/L	20.00		100	80-129			
Toluene	20.8	0.50	ug/L	20.00		104	76-131			
trans-1,2-Dichloroethylene	21.5	0.50	ug/L	20.00		108	76-135			
trans-1,3-Dichloropropylene	21.2	0.50	ug/L	20.00		106	67-140			
Trichloroethylene	21.5	0.50	ug/L	20.00		108	77-133			
Trichlorofluoromethane	23.5	0.50	ug/L	20.00		117	62-148			
Vinyl acetate	21.4	2.0	ug/L	20.00		107	34-167			
Vinyl chloride	22.3	0.50	ug/L	20.00		111	57-141			
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/L*	*25.00*		*102*	*80-124*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/L*	*25.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*24.4*		*ug/L*	*25.00*		*98*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
LCS Dup (P5B0450-BSD1)				Prepared & Analyzed: 02/23/15						
1,1,1,2-Tetrachloroethane	20.0	0.50	ug/L	20.00		100	79-134	0.1	20	
1,1,1-Trichloroethane	20.7	0.50	ug/L	20.00		103	75-136	2	20	
1,1,2,2-Tetrachloroethane	18.4	0.50	ug/L	20.00		92	62-127	0.05	20	
1,1,2-Trichloroethane	19.2	0.50	ug/L	20.00		96	70-140	2	20	
1,1-Dichloroethane	19.7	0.50	ug/L	20.00		98	78-130	2	20	
1,1-Dichloroethylene	21.8	0.50	ug/L	20.00		109	70-154	0.3	20	
1,1-Dichloropropylene	23.2	0.50	ug/L	20.00		116	71-136	0.6	20	
1,2,3-Trichlorobenzene	20.9	2.0	ug/L	20.00		105	58-144	3	20	
1,2,3-Trichloropropane	19.0	1.0	ug/L	20.00		95	71-127	6	20	
1,2,4-Trichlorobenzene	22.4	1.0	ug/L	20.00		112	66-139	5	20	
1,2,4-Trimethylbenzene	22.3	0.50	ug/L	20.00		111	75-133	4	20	
1,2-Dibromo-3-chloropropane	20.3	2.0	ug/L	20.00		101	63-134	4	20	
1,2-Dibromoethane	20.5	0.50	ug/L	20.00		103	77-135	0.3	20	
1,2-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	78-128	0.1	20	
1,2-Dichloroethane	19.6	0.50	ug/L	20.00		98	68-131	0.7	20	
1,2-Dichloropropane	19.7	0.50	ug/L	20.00		98	77-130	0.2	20	
1,3,5-Trimethylbenzene	22.3	0.50	ug/L	20.00		112	75-131	1	20	
1,3-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	77-125	1	20	
1,3-Dichloropropane	19.4	0.50	ug/L	20.00		97	76-132	2	20	
1,4-Dichlorobenzene	20.5	0.50	ug/L	20.00		102	75-126	4	20	
2,2-Dichloropropane	21.6	2.0	ug/L	20.00		108	29-149	1	20	
2-Chloroethyl Vinyl Ether	11.7	5.0	ug/L	20.00		59	34-144	4	20	
2-Chlorotoluene	20.9	0.50	ug/L	20.00		104	74-126	0.1	20	
4-Chlorotoluene	20.8	0.50	ug/L	20.00		104	78-129	1	20	
4-Isopropyltoluene	22.6	0.50	ug/L	20.00		113	69-132	0.1	20	
Acetone	39.9	5.0	ug/L	40.00		100	40-166	0.6	20	
Acrolein	41.6	20	ug/L	40.00		104	70-130	0.7	20	
Acrylonitrile	41.2	20	ug/L	40.00		103	81-127	0.5	20	
Benzene	21.2	0.50	ug/L	20.00		106	77-128	0.8	20	
Bromobenzene	20.2	0.50	ug/L	20.00		101	78-129	2	20	
Bromochloromethane	21.6	0.50	ug/L	20.00		108	78-135	1	20	
Bromodichloromethane	18.5	0.50	ug/L	20.00		92	76-138	1	20	
Bromoform	18.7	1.0	ug/L	20.00		93	71-135	6	20	
Bromomethane	17.6	1.0	ug/L	20.00		88	41-168	3	20	
Carbon disulfide	20.8	5.0	ug/L	20.00		104	59-135	4	20	
Carbon Tetrachloride	20.9	0.50	ug/L	20.00		104	72-142	1	20	
Chlorobenzene	20.9	0.50	ug/L	20.00		104	78-119	4	20	
Chloroethane	20.9	0.50	ug/L	20.00		104	57-142	3	20	
Chloroform	17.7	0.50	ug/L	20.00		88	77-130	6	20	
Chloromethane	20.5	0.50	ug/L	20.00		102	47-145	2	20	
cis-1,2-Dichloroethylene	20.7	0.50	ug/L	20.00		104	76-141	4	20	
cis-1,3-Dichloropropylene	20.8	0.50	ug/L	20.00		104	65-140	1	20	
Dibromochloromethane	18.9	0.50	ug/L	20.00		94	75-134	3	20	
Dibromomethane	18.0	0.50	ug/L	20.00		90	76-138	0.1	20	
Dichlorodifluoromethane	23.0	1.0	ug/L	20.00		115	28-163	2	20	
Ethanol	640	200	ug/L	500.0		128	70-130	64	20	D

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0450 - 5030B										
LCS Dup (P5B0450-BSD1)				Prepared & Analyzed: 02/23/15						
Ethylbenzene	20.9	0.50	ug/L	20.00		104	80-127	2	20	
Hexachlorobutadiene	22.4	2.0	ug/L	20.00		112	61-134	0.5	20	
Isopropyl Ether	17.6	0.50	ug/L	20.00		88	60-154	1	20	
Isopropylbenzene (Cumene)	23.5	0.50	ug/L	20.00		117	70-130	2	20	
m,p-Xylenes	44.0	1.0	ug/L	40.00		110	77-133	4	20	
Methyl Butyl Ketone (2-Hexanone)	20.2	5.0	ug/L	20.00		101	64-137	4	20	
Methyl Ethyl Ketone (2-Butanone)	20.8	5.0	ug/L	20.00		104	71-134	2	20	
Methyl Isobutyl Ketone	19.0	5.0	ug/L	20.00		95	69-134	3	20	
Methylene Chloride	20.5	1.0	ug/L	20.00		103	73-131	0.6	20	
Methyl-tert-Butyl Ether	19.4	0.50	ug/L	20.00		97	68-135	1	20	
Naphthalene	21.1	1.0	ug/L	20.00		106	64-136	4	20	
n-Butylbenzene	23.0	1.0	ug/L	20.00		115	68-134	3	20	
n-Propylbenzene	22.6	0.50	ug/L	20.00		113	72-132	2	20	
o-Xylene	21.7	0.50	ug/L	20.00		108	78-128	3	20	
sec-Butylbenzene	21.4	0.50	ug/L	20.00		107	71-131	1	20	
Styrene	21.4	0.50	ug/L	20.00		107	78-129	0.5	20	
tert-Amyl Alcohol	24.3	10	ug/L	20.00		122	70-130	3	20	
tert-Amyl Methyl Ether	40.6	10	ug/L	40.00		101	70-130	1	20	
tert-Butyl Alcohol	28.8	10	ug/L	40.00		72	70-130	12	20	
tert-Butylbenzene	22.2	0.50	ug/L	20.00		111	70-132	0.09	20	
tert-Butyl Ethyl Ether	41.0	10	ug/L	40.00		102	70-130	2	20	
tert-Butyl Formate	41.9	10	ug/L	40.00		105	70-130	1	20	
Tetrachloroethylene	19.8	0.50	ug/L	20.00		99	80-129	1	20	
Toluene	20.6	0.50	ug/L	20.00		103	76-131	1	20	
trans-1,2-Dichloroethylene	21.8	0.50	ug/L	20.00		109	76-135	1	20	
trans-1,3-Dichloropropylene	20.2	0.50	ug/L	20.00		101	67-140	4	20	
Trichloroethylene	21.6	0.50	ug/L	20.00		108	77-133	0.5	20	
Trichlorofluoromethane	23.8	0.50	ug/L	20.00		119	62-148	1	20	
Vinyl acetate	21.1	2.0	ug/L	20.00		106	34-167	1	20	
Vinyl chloride	23.4	0.50	ug/L	20.00		117	57-141	5	20	
Surrogate: 4-Bromofluorobenzene	*26.1*		*ug/L*	*25.00*		*104*	*80-124*			
Surrogate: Dibromofluoromethane	*25.2*		*ug/L*	*25.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*25.1*		*ug/L*	*25.00*		*101*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
Blank (P5B0475-BLK1)				Prepared & Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethanol	BRL	0.25	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
Blank (P5B0475-BLK1)				Prepared & Analyzed: 02/25/15						
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Amyl Alcohol	BRL	0.40	mg/kg wet							
tert-Amyl Methyl Ether	BRL	0.10	mg/kg wet							
tert-Butyl Alcohol	BRL	0.20	mg/kg wet							
tert-Butyl Formate	BRL	0.40	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
tert-Butyl Ethyl Ether	BRL	0.10	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0462*		*mg/kg wet*	*0.05000*		*92*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0474*		*mg/kg wet*	*0.05000*		*95*	*84-123*			
Surrogate: Toluene-d8	*0.0466*		*mg/kg wet*	*0.05000*		*93*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
LCS (P5B0475-BS1)				Prepared & Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	0.0537	0.0050	mg/kg wet	0.05000		107	72-115			
1,1,1-Trichloroethane	0.0462	0.0050	mg/kg wet	0.05000		92	67-131			
1,1,2,2-Tetrachloroethane	0.0586	0.0050	mg/kg wet	0.05000		117	56-126			
1,1,2-Trichloroethane	0.0554	0.0050	mg/kg wet	0.05000		111	70-133			
1,1-Dichloroethane	0.0519	0.0050	mg/kg wet	0.05000		104	74-127			
1,1-Dichloroethylene	0.0491	0.0050	mg/kg wet	0.05000		98	67-149			
1,1-Dichloropropylene	0.0550	0.0050	mg/kg wet	0.05000		110	71-130			
1,2,3-Trichlorobenzene	0.0528	0.0050	mg/kg wet	0.05000		106	68-130			
1,2,3-Trichloropropane	0.0512	0.0050	mg/kg wet	0.05000		102	60-137			
1,2,4-Trichlorobenzene	0.0519	0.0050	mg/kg wet	0.05000		104	66-125			
1,2,4-Trimethylbenzene	0.0540	0.0050	mg/kg wet	0.05000		108	69-129			
1,2-Dibromoethane	0.0559	0.0050	mg/kg wet	0.05000		112	70-132			
1,2-Dichlorobenzene	0.0550	0.0050	mg/kg wet	0.05000		110	72-123			
1,2-Dichloroethane	0.0442	0.0050	mg/kg wet	0.05000		88	68-128			
1,2-Dichloropropane	0.0572	0.0050	mg/kg wet	0.05000		114	73-130			
1,3,5-Trimethylbenzene	0.0543	0.0050	mg/kg wet	0.05000		109	69-128			
1,3-Dichlorobenzene	0.0543	0.0050	mg/kg wet	0.05000		109	71-120			
1,3-Dichloropropane	0.0540	0.0050	mg/kg wet	0.05000		108	75-124			
1,4-Dichlorobenzene	0.0545	0.0050	mg/kg wet	0.05000		109	71-123			
2,2-Dichloropropane	0.0466	0.0050	mg/kg wet	0.05000		93	50-142			
2-Chlorotoluene	0.0526	0.0050	mg/kg wet	0.05000		105	67-124			
4-Chlorotoluene	0.0533	0.0050	mg/kg wet	0.05000		107	71-126			
4-Isopropyltoluene	0.0532	0.0050	mg/kg wet	0.05000		106	68-129			
Acetone	0.0970	0.050	mg/kg wet	0.1000		97	29-198			
Benzene	0.0585	0.0030	mg/kg wet	0.05000		117	74-127			
Bromobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	73-125			
Bromochloromethane	0.0554	0.0050	mg/kg wet	0.05000		111	72-134			
Bromodichloromethane	0.0468	0.0050	mg/kg wet	0.05000		94	75-122			
Bromoform	0.0487	0.0050	mg/kg wet	0.05000		97	66-135			
Bromomethane	0.0429	0.010	mg/kg wet	0.05000		86	20-180			
Carbon Tetrachloride	0.0480	0.0050	mg/kg wet	0.05000		96	64-143			
Chlorobenzene	0.0554	0.0050	mg/kg wet	0.05000		111	74-118			
Chloroethane	0.0572	0.010	mg/kg wet	0.05000		114	33-149			
Chloroform	0.0465	0.0050	mg/kg wet	0.05000		93	73-127			
Chloromethane	0.0634	0.0050	mg/kg wet	0.05000		127	45-143			
cis-1,2-Dichloroethylene	0.0546	0.0050	mg/kg wet	0.05000		109	76-134			
cis-1,3-Dichloropropylene	0.0552	0.0050	mg/kg wet	0.05000		110	71-125			
Dibromochloromethane	0.0491	0.0050	mg/kg wet	0.05000		98	73-122			
Dichlorodifluoromethane	0.0573	0.0050	mg/kg wet	0.05000		115	26-146			
Ethanol	1.19	0.25	mg/kg wet	1.250		95	70-130			
Ethylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	74-128			
Isopropyl Ether	0.0478	0.0050	mg/kg wet	0.05000		96	59-159			
Isopropylbenzene (Cumene)	0.0558	0.0050	mg/kg wet	0.05000		112	68-126			
m,p-Xylenes	0.106	0.010	mg/kg wet	0.1000		106	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0514	0.050	mg/kg wet	0.05000		103	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0510	0.10	mg/kg wet	0.05000		102	63-149			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
LCS (P5B0475-BS1)				Prepared & Analyzed: 02/25/15						
Methyl Isobutyl Ketone	0.0503	0.050	mg/kg wet	0.05000		101	57-162			
Methylene Chloride	0.0508	0.0050	mg/kg wet	0.05000		102	74-129			
Methyl-tert-Butyl Ether	0.0528	0.010	mg/kg wet	0.05000		106	70-130			
Naphthalene	0.0538	0.010	mg/kg wet	0.05000		108	57-157			
n-Butylbenzene	0.0530	0.0050	mg/kg wet	0.05000		106	65-135			
n-Propylbenzene	0.0543	0.0050	mg/kg wet	0.05000		109	67-130			
o-Xylene	0.0526	0.0050	mg/kg wet	0.05000		105	74-126			
sec-Butylbenzene	0.0545	0.0050	mg/kg wet	0.05000		109	66-131			
Styrene	0.0587	0.0050	mg/kg wet	0.05000		117	77-121			
tert-Amyl Alcohol	0.0530	0.40	mg/kg wet	0.05000		106	70-130			J
tert-Amyl Methyl Ether	0.112	0.10	mg/kg wet	0.1000		112	70-130			
tert-Butyl Alcohol	0.109	0.20	mg/kg wet	0.1000		109	70-130			J
tert-Butyl Formate	0.108	0.40	mg/kg wet	0.1000		108	70-130			J
tert-Butylbenzene	0.0538	0.0050	mg/kg wet	0.05000		108	67-132			
tert-Butyl Ethyl Ether	0.109	0.10	mg/kg wet	0.1000		109	70-130			
Tetrachloroethylene	0.0554	0.0050	mg/kg wet	0.05000		111	68-130			
Toluene	0.0572	0.0050	mg/kg wet	0.05000		114	71-129			
trans-1,2-Dichloroethylene	0.0524	0.0050	mg/kg wet	0.05000		105	73-132			
trans-1,3-Dichloropropylene	0.0534	0.0050	mg/kg wet	0.05000		107	68-123			
Trichloroethylene	0.0546	0.0050	mg/kg wet	0.05000		109	75-133			
Trichlorofluoromethane	0.0518	0.0050	mg/kg wet	0.05000		104	44-146			
Vinyl acetate	0.0624	0.025	mg/kg wet	0.05000		125	85-161			
Vinyl chloride	0.0602	0.0050	mg/kg wet	0.05000		120	48-147			
Xylenes, total	0.158	0.015	mg/kg wet	0.1500		105	74-126			
Surrogate: 4-Bromofluorobenzene	*0.0476*		*mg/kg wet*	*0.05000*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0494*		*mg/kg wet*	*0.05000*		*99*	*84-123*			
Surrogate: Toluene-d8	*0.0496*		*mg/kg wet*	*0.05000*		*99*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
LCS Dup (P5B0475-BSD1)				Prepared & Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	0.0497	0.0050	mg/kg wet	0.05000		99	72-115	8	20	
1,1,1-Trichloroethane	0.0424	0.0050	mg/kg wet	0.05000		85	67-131	9	20	
1,1,2,2-Tetrachloroethane	0.0568	0.0050	mg/kg wet	0.05000		114	56-126	3	20	
1,1,2-Trichloroethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-133	6	20	
1,1-Dichloroethane	0.0484	0.0050	mg/kg wet	0.05000		97	74-127	7	20	
1,1-Dichloroethylene	0.0440	0.0050	mg/kg wet	0.05000		88	67-149	11	20	
1,1-Dichloropropylene	0.0511	0.0050	mg/kg wet	0.05000		102	71-130	7	20	
1,2,3-Trichlorobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	68-130	4	20	
1,2,3-Trichloropropane	0.0497	0.0050	mg/kg wet	0.05000		99	60-137	3	20	
1,2,4-Trichlorobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	66-125	5	20	
1,2,4-Trimethylbenzene	0.0512	0.0050	mg/kg wet	0.05000		102	69-129	5	20	
1,2-Dibromoethane	0.0537	0.0050	mg/kg wet	0.05000		107	70-132	4	20	
1,2-Dichlorobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	72-123	4	20	
1,2-Dichloroethane	0.0419	0.0050	mg/kg wet	0.05000		84	68-128	5	20	
1,2-Dichloropropane	0.0538	0.0050	mg/kg wet	0.05000		108	73-130	6	20	
1,3,5-Trimethylbenzene	0.0509	0.0050	mg/kg wet	0.05000		102	69-128	6	20	
1,3-Dichlorobenzene	0.0513	0.0050	mg/kg wet	0.05000		103	71-120	6	20	
1,3-Dichloropropane	0.0515	0.0050	mg/kg wet	0.05000		103	75-124	5	20	
1,4-Dichlorobenzene	0.0520	0.0050	mg/kg wet	0.05000		104	71-123	5	20	
2,2-Dichloropropane	0.0419	0.0050	mg/kg wet	0.05000		84	50-142	11	20	
2-Chlorotoluene	0.0496	0.0050	mg/kg wet	0.05000		99	67-124	6	20	
4-Chlorotoluene	0.0507	0.0050	mg/kg wet	0.05000		101	71-126	5	20	
4-Isopropyltoluene	0.0500	0.0050	mg/kg wet	0.05000		100	68-129	6	20	
Acetone	0.0900	0.050	mg/kg wet	0.1000		90	29-198	7	20	
Benzene	0.0545	0.0030	mg/kg wet	0.05000		109	74-127	7	20	
Bromobenzene	0.0508	0.0050	mg/kg wet	0.05000		102	73-125	5	20	
Bromochloromethane	0.0513	0.0050	mg/kg wet	0.05000		103	72-134	8	20	
Bromodichloromethane	0.0434	0.0050	mg/kg wet	0.05000		87	75-122	8	20	
Bromoform	0.0468	0.0050	mg/kg wet	0.05000		94	66-135	4	20	
Bromomethane	0.0365	0.010	mg/kg wet	0.05000		73	20-180	16	20	
Carbon Tetrachloride	0.0435	0.0050	mg/kg wet	0.05000		87	64-143	10	20	
Chlorobenzene	0.0517	0.0050	mg/kg wet	0.05000		103	74-118	7	20	
Chloroethane	0.0476	0.010	mg/kg wet	0.05000		95	33-149	18	20	
Chloroform	0.0435	0.0050	mg/kg wet	0.05000		87	73-127	7	20	
Chloromethane	0.0584	0.0050	mg/kg wet	0.05000		117	45-143	8	20	
cis-1,2-Dichloroethylene	0.0509	0.0050	mg/kg wet	0.05000		102	76-134	7	20	
cis-1,3-Dichloropropylene	0.0514	0.0050	mg/kg wet	0.05000		103	71-125	7	20	
Dibromochloromethane	0.0467	0.0050	mg/kg wet	0.05000		93	73-122	5	20	
Dichlorodifluoromethane	0.0524	0.0050	mg/kg wet	0.05000		105	26-146	9	20	
Ethanol	1.19	0.25	mg/kg wet	1.250		95	70-130	0.002	20	
Ethylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	74-128	6	20	
Isopropyl Ether	0.0454	0.0050	mg/kg wet	0.05000		91	59-159	5	20	
Isopropylbenzene (Cumene)	0.0526	0.0050	mg/kg wet	0.05000		105	68-126	6	20	
m,p-Xylenes	0.0983	0.010	mg/kg wet	0.1000		98	75-124	7	20	
Methyl Butyl Ketone (2-Hexanone)	0.0506	0.050	mg/kg wet	0.05000		101	61-157	2	20	
Methyl Ethyl Ketone (2-Butanone)	0.0493	0.10	mg/kg wet	0.05000		99	63-149	3	20	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
LCS Dup (P5B0475-BSD1)			Prepared & Analyzed: 02/25/15							
Methyl Isobutyl Ketone	0.0490	0.050	mg/kg wet	0.05000		98	57-162	3	20	J
Methylene Chloride	0.0472	0.0050	mg/kg wet	0.05000		94	74-129	7	20	
Methyl-tert-Butyl Ether	0.0502	0.010	mg/kg wet	0.05000		100	70-130	5	20	
Naphthalene	0.0525	0.010	mg/kg wet	0.05000		105	57-157	3	20	
n-Butylbenzene	0.0499	0.0050	mg/kg wet	0.05000		100	65-135	6	20	
n-Propylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	67-130	6	20	
o-Xylene	0.0493	0.0050	mg/kg wet	0.05000		99	74-126	7	20	
sec-Butylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	66-131	5	20	
Styrene	0.0556	0.0050	mg/kg wet	0.05000		111	77-121	5	20	
tert-Amyl Alcohol	0.0494	0.40	mg/kg wet	0.05000		99	70-130	7	20	J
tert-Amyl Methyl Ether	0.106	0.10	mg/kg wet	0.1000		106	70-130	6	20	
tert-Butyl Alcohol	0.103	0.20	mg/kg wet	0.1000		103	70-130	5	20	J
tert-Butyl Formate	0.101	0.40	mg/kg wet	0.1000		101	70-130	6	20	J
tert-Butylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	67-132	6	20	
tert-Butyl Ethyl Ether	0.103	0.10	mg/kg wet	0.1000		103	70-130	5	20	
Tetrachloroethylene	0.0513	0.0050	mg/kg wet	0.05000		103	68-130	8	20	
Toluene	0.0529	0.0050	mg/kg wet	0.05000		106	71-129	8	20	
trans-1,2-Dichloroethylene	0.0481	0.0050	mg/kg wet	0.05000		96	73-132	9	20	
trans-1,3-Dichloropropylene	0.0504	0.0050	mg/kg wet	0.05000		101	68-123	6	20	
Trichloroethylene	0.0506	0.0050	mg/kg wet	0.05000		101	75-133	7	20	
Trichlorofluoromethane	0.0469	0.0050	mg/kg wet	0.05000		94	44-146	10	20	
Vinyl acetate	0.0583	0.025	mg/kg wet	0.05000		117	85-161	7	20	
Vinyl chloride	0.0534	0.0050	mg/kg wet	0.05000		107	48-147	12	20	
Xylenes, total	0.148	0.015	mg/kg wet	0.1500		98	74-126	7	20	
Surrogate: 4-Bromofluorobenzene	*0.0435*		*mg/kg wet*	*0.05000*		*87*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0448*		*mg/kg wet*	*0.05000*		*90*	*84-123*			
Surrogate: Toluene-d8	*0.0446*		*mg/kg wet*	*0.05000*		*89*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
Blank (P5B0420-BLK1)				Prepared: 02/23/15 Analyzed: 02/24/15						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
Blank (P5B0420-BLK1)				Prepared: 02/23/15 Analyzed: 02/24/15						
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*3.33*		*mg/kg wet*	*3.333*		*100*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.58*		*mg/kg wet*	*1.667*		*95*	*44-115*			
Surrogate: 2-Fluorophenol	*3.05*		*mg/kg wet*	*3.333*		*92*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.43*		*mg/kg wet*	*1.667*		*86*	*37-122*			
Surrogate: Phenol-d5	*2.90*		*mg/kg wet*	*3.333*		*87*	*34-121*			
Surrogate: Terphenyl-d14	*1.75*		*mg/kg wet*	*1.667*		*105*	*54-127*			
LCS (P5B0420-BS1)				Prepared: 02/23/15 Analyzed: 02/24/15						
1,2,4-Trichlorobenzene	1.52	0.33	mg/kg wet	1.667		91	34-118			
1,2-Dichlorobenzene	1.39	0.33	mg/kg wet	1.667		83	33-117			
1,3-Dichlorobenzene	1.32	0.33	mg/kg wet	1.667		79	30-115			
1,4-Dichlorobenzene	1.36	0.33	mg/kg wet	1.667		82	31-115			
1-Methylnaphthalene	1.46	0.33	mg/kg wet	1.667		88	40-119			
2,4,6-Trichlorophenol	1.72	0.33	mg/kg wet	1.667		103	39-126			
2,4-Dichlorophenol	1.61	0.33	mg/kg wet	1.667		97	40-122			
2,4-Dimethylphenol	1.53	0.33	mg/kg wet	1.667		92	30-127			
2,4-Dinitrophenol	1.78	0.33	mg/kg wet	1.667		107	27-129			
2,4-Dinitrotoluene	1.71	0.33	mg/kg wet	1.667		102	48-126			
2,6-Dinitrotoluene	1.73	0.33	mg/kg wet	1.667		104	46-124			
2-Chloronaphthalene	1.98	0.33	mg/kg wet	1.667		119	41-114			L1
2-Chlorophenol	1.44	0.33	mg/kg wet	1.667		87	34-121			
2-Methylnaphthalene	1.51	0.33	mg/kg wet	1.667		90	38-122			
2-Methylphenol	1.46	0.33	mg/kg wet	1.667		87	32-122			
2-Nitrophenol	1.44	0.33	mg/kg wet	1.667		86	36-123			
3,3'-Dichlorobenzidine	1.02	0.33	mg/kg wet	1.667		61	22-121			
3/4-Methylphenol	1.51	0.33	mg/kg wet	1.667		90	34-119			
4,6-Dinitro-2-methylphenol	1.68	0.33	mg/kg wet	1.667		101	29-132			
4-Bromophenyl phenyl ether	1.54	0.33	mg/kg wet	1.667		93	46-124			
4-Chloro-3-methylphenol	1.59	0.33	mg/kg wet	1.667		95	45-122			
4-Chloroaniline	1.17	0.33	mg/kg wet	1.667		70	17-106			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
LCS (P5B0420-BS1)				Prepared: 02/23/15 Analyzed: 02/24/15						
4-Chlorophenyl phenyl ether	1.60	0.33	mg/kg wet	1.667		96	45-121			
4-Nitrophenol	1.74	0.33	mg/kg wet	1.667		104	30-132			
Acenaphthene	1.57	0.33	mg/kg wet	1.667		94	40-123			
Acenaphthylene	1.59	0.33	mg/kg wet	1.667		95	32-132			
Anthracene	1.52	0.33	mg/kg wet	1.667		91	47-123			
Azobenzene	1.62	0.33	mg/kg wet	1.667		97	39-125			
Benzo(a)anthracene	1.54	0.33	mg/kg wet	1.667		92	49-126			
Benzo(a)pyrene	1.18	0.33	mg/kg wet	1.667		71	45-129			
Benzo(b)fluoranthene	1.15	0.33	mg/kg wet	1.667		69	45-132			
Benzo(g,h,i)perylene	1.21	0.33	mg/kg wet	1.667		72	43-134			
Benzo(k)fluoranthene	1.22	0.33	mg/kg wet	1.667		73	47-132			
Benzoic Acid	1.83	0.33	mg/kg wet	1.667		110	10-83			LH
Benzyl alcohol	1.34	0.33	mg/kg wet	1.667		81	29-122			
bis(2-Chloroethoxy)methane	1.45	0.33	mg/kg wet	1.667		87	36-121			
Bis(2-Chloroethyl)ether	1.25	0.33	mg/kg wet	1.667		75	31-120			
Bis(2-chloroisopropyl)ether	1.31	0.33	mg/kg wet	1.667		79	33-131			
Bis(2-Ethylhexyl)phthalate	1.46	0.33	mg/kg wet	1.667		88	51-133			
Butyl benzyl phthalate	1.41	0.33	mg/kg wet	1.667		85	48-132			
Chrysene	1.57	0.33	mg/kg wet	1.667		94	50-124			
Dibenzo(a,h)anthracene	1.16	0.33	mg/kg wet	1.667		70	45-134			
Dibenzofuran	1.44	0.33	mg/kg wet	1.667		86	44-120			
Diethyl phthalate	1.55	0.33	mg/kg wet	1.667		93	50-124			
Dimethyl phthalate	1.58	0.33	mg/kg wet	1.667		95	48-124			
Di-n-butyl phthalate	1.46	0.33	mg/kg wet	1.667		87	51-128			
Di-n-octyl phthalate	1.14	0.33	mg/kg wet	1.667		68	45-140			
Fluoranthene	1.55	0.33	mg/kg wet	1.667		93	50-127			
Fluorene	1.57	0.33	mg/kg wet	1.667		94	43-125			
Hexachlorobenzene	1.65	0.33	mg/kg wet	1.667		99	45-122			
Hexachlorobutadiene	1.48	0.33	mg/kg wet	1.667		89	32-123			
Hexachlorocyclopentadiene	1.62	0.33	mg/kg wet	1.667		97	32-117			
Hexachloroethane	1.34	0.33	mg/kg wet	1.667		80	28-117			
Indeno(1,2,3-cd)pyrene	1.24	0.33	mg/kg wet	1.667		75	45-133			
Isophorone	1.55	0.33	mg/kg wet	1.667		93	30-122			
Naphthalene	1.41	0.33	mg/kg wet	1.667		84	35-123			
Nitrobenzene	1.48	0.33	mg/kg wet	1.667		89	34-122			
N-Nitroso-di-n-propylamine	1.44	0.33	mg/kg wet	1.667		86	36-120			
N-Nitrosodiphenylamine	1.56	0.33	mg/kg wet	1.667		94	38-127			
Pentachlorophenol	1.72	0.33	mg/kg wet	1.667		103	25-133			
Phenanthrene	1.52	0.33	mg/kg wet	1.667		91	50-121			
Phenol	1.47	0.33	mg/kg wet	1.667		88	34-121			
Pyrene	1.53	0.33	mg/kg wet	1.667		92	47-127			
Surrogate: 2,4,6-Tribromophenol	*3.63*		*mg/kg wet*	*3.333*		*109*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.67*		*mg/kg wet*	*1.667*		*100*	*44-115*			
Surrogate: 2-Fluorophenol	*3.17*		*mg/kg wet*	*3.333*		*95*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.51*		*mg/kg wet*	*1.667*		*91*	*37-122*			
Surrogate: Phenol-d5	*3.01*		*mg/kg wet*	*3.333*		*90*	*34-121*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
LCS (P5B0420-BS1)				Prepared: 02/23/15 Analyzed: 02/24/15						
Surrogate: Terphenyl-d14	*1.75*		*mg/kg wet*	*1.667*		*105*	*54-127*			
LCS Dup (P5B0420-BSD1)				Prepared: 02/23/15 Analyzed: 02/24/15						
1,2,4-Trichlorobenzene	1.48	0.33	mg/kg wet	1.667		89	34-118	3	20	
1,2-Dichlorobenzene	1.37	0.33	mg/kg wet	1.667		82	33-117	1	20	
1,3-Dichlorobenzene	1.29	0.33	mg/kg wet	1.667		77	30-115	2	20	
1,4-Dichlorobenzene	1.33	0.33	mg/kg wet	1.667		80	31-115	3	20	
1-Methylnaphthalene	1.40	0.33	mg/kg wet	1.667		84	40-119	5	20	
2,4,6-Trichlorophenol	1.68	0.33	mg/kg wet	1.667		101	39-126	2	20	
2,4-Dichlorophenol	1.60	0.33	mg/kg wet	1.667		96	40-122	0.4	20	
2,4-Dimethylphenol	1.52	0.33	mg/kg wet	1.667		91	30-127	0.1	20	
2,4-Dinitrophenol	1.71	0.33	mg/kg wet	1.667		103	27-129	4	20	
2,4-Dinitrotoluene	1.63	0.33	mg/kg wet	1.667		98	48-126	5	20	
2,6-Dinitrotoluene	1.68	0.33	mg/kg wet	1.667		100	46-124	3	20	
2-Chloronaphthalene	1.87	0.33	mg/kg wet	1.667		112	41-114	6	20	
2-Chlorophenol	1.39	0.33	mg/kg wet	1.667		83	34-121	4	20	
2-Methylnaphthalene	1.47	0.33	mg/kg wet	1.667		88	38-122	2	20	
2-Methylphenol	1.47	0.33	mg/kg wet	1.667		88	32-122	0.7	20	
2-Nitrophenol	1.46	0.33	mg/kg wet	1.667		88	36-123	2	20	
3,3'-Dichlorobenzidine	1.02	0.33	mg/kg wet	1.667		61	22-121	0.7	20	
3/4-Methylphenol	1.50	0.33	mg/kg wet	1.667		90	34-119	0.6	20	
4,6-Dinitro-2-methylphenol	1.62	0.33	mg/kg wet	1.667		97	29-132	4	20	
4-Bromophenyl phenyl ether	1.50	0.33	mg/kg wet	1.667		90	46-124	3	20	
4-Chloro-3-methylphenol	1.59	0.33	mg/kg wet	1.667		95	45-122	0.1	20	
4-Chloroaniline	1.19	0.33	mg/kg wet	1.667		71	17-106	2	20	
4-Chlorophenyl phenyl ether	1.54	0.33	mg/kg wet	1.667		93	45-121	4	20	
4-Nitrophenol	1.65	0.33	mg/kg wet	1.667		99	30-132	6	20	
Acenaphthene	1.52	0.33	mg/kg wet	1.667		91	40-123	3	20	
Acenaphthylene	1.52	0.33	mg/kg wet	1.667		91	32-132	4	20	
Anthracene	1.51	0.33	mg/kg wet	1.667		91	47-123	0.6	20	
Azobenzene	1.62	0.33	mg/kg wet	1.667		97	39-125	0.5	20	
Benzo(a)anthracene	1.49	0.33	mg/kg wet	1.667		90	49-126	3	20	
Benzo(a)pyrene	1.14	0.33	mg/kg wet	1.667		68	45-129	3	20	
Benzo(b)fluoranthene	1.13	0.33	mg/kg wet	1.667		68	45-132	2	20	
Benzo(g,h,i)perylene	1.18	0.33	mg/kg wet	1.667		71	43-134	3	20	
Benzo(k)fluoranthene	1.16	0.33	mg/kg wet	1.667		70	47-132	5	20	
Benzoic Acid	1.83	0.33	mg/kg wet	1.667		110	10-83	0.09	20	LH
Benzyl alcohol	1.30	0.33	mg/kg wet	1.667		78	29-122	3	20	
bis(2-Chloroethoxy)methane	1.43	0.33	mg/kg wet	1.667		86	36-121	2	20	
Bis(2-Chloroethyl)ether	1.26	0.33	mg/kg wet	1.667		76	31-120	0.4	20	
Bis(2-chloroisopropyl)ether	1.30	0.33	mg/kg wet	1.667		78	33-131	0.5	20	
Bis(2-Ethylhexyl)phthalate	1.44	0.33	mg/kg wet	1.667		87	51-133	1	20	
Butyl benzyl phthalate	1.43	0.33	mg/kg wet	1.667		86	48-132	1	20	
Chrysene	1.57	0.33	mg/kg wet	1.667		94	50-124	0.5	20	
Dibenzo(a,h)anthracene	1.20	0.33	mg/kg wet	1.667		72	45-134	3	20	
Dibenzofuran	1.37	0.33	mg/kg wet	1.667		82	44-120	5	20	
Diethyl phthalate	1.51	0.33	mg/kg wet	1.667		91	50-124	3	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
LCS Dup (P5B0420-BSD1)				Prepared: 02/23/15 Analyzed: 02/24/15						
Dimethyl phthalate	1.52	0.33	mg/kg wet	1.667		91	48-124	4	20	
Di-n-butyl phthalate	1.44	0.33	mg/kg wet	1.667		86	51-128	0.9	20	
Di-n-octyl phthalate	1.11	0.33	mg/kg wet	1.667		67	45-140	2	20	
Fluoranthene	1.54	0.33	mg/kg wet	1.667		92	50-127	1	20	
Fluorene	1.53	0.33	mg/kg wet	1.667		92	43-125	3	20	
Hexachlorobenzene	1.62	0.33	mg/kg wet	1.667		97	45-122	2	20	
Hexachlorobutadiene	1.47	0.33	mg/kg wet	1.667		88	32-123	0.7	20	
Hexachlorocyclopentadiene	1.51	0.33	mg/kg wet	1.667		91	32-117	7	20	
Hexachloroethane	1.31	0.33	mg/kg wet	1.667		78	28-117	2	20	
Indeno(1,2,3-cd)pyrene	1.24	0.33	mg/kg wet	1.667		74	45-133	0.3	20	
Isophorone	1.53	0.33	mg/kg wet	1.667		92	30-122	2	20	
Naphthalene	1.39	0.33	mg/kg wet	1.667		83	35-123	1	20	
Nitrobenzene	1.42	0.33	mg/kg wet	1.667		85	34-122	5	20	
N-Nitroso-di-n-propylamine	1.37	0.33	mg/kg wet	1.667		82	36-120	5	20	
N-Nitrosodiphenylamine	1.51	0.33	mg/kg wet	1.667		91	38-127	3	20	
Pentachlorophenol	1.68	0.33	mg/kg wet	1.667		101	25-133	2	20	
Phenanthrene	1.50	0.33	mg/kg wet	1.667		90	50-121	2	20	
Phenol	1.42	0.33	mg/kg wet	1.667		85	34-121	3	20	
Pyrene	1.54	0.33	mg/kg wet	1.667		92	47-127	0.5	20	
Surrogate: 2,4,6-Tribromophenol	*3.57*		*mg/kg wet*	*3.333*		*107*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.59*		*mg/kg wet*	*1.667*		*95*	*44-115*			
Surrogate: 2-Fluorophenol	*3.12*		*mg/kg wet*	*3.333*		*94*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.49*		*mg/kg wet*	*1.667*		*90*	*37-122*			
Surrogate: Phenol-d5	*3.00*		*mg/kg wet*	*3.333*		*90*	*34-121*			
Surrogate: Terphenyl-d14	*1.72*		*mg/kg wet*	*1.667*		*103*	*54-127*			
Matrix Spike (P5B0420-MS1)	**Source: 5020410-11**			Prepared: 02/23/15 Analyzed: 02/24/15						
1,2,4-Trichlorobenzene	2.09	0.43	mg/kg dry	2.193	BRL	95	34-118			
1,2-Dichlorobenzene	1.86	0.43	mg/kg dry	2.193	BRL	85	33-117			
1,3-Dichlorobenzene	1.77	0.43	mg/kg dry	2.193	BRL	81	30-115			
1,4-Dichlorobenzene	1.83	0.43	mg/kg dry	2.193	BRL	84	31-115			
1-Methylnaphthalene	1.89	0.43	mg/kg dry	2.193	BRL	86	40-119			
2,4,6-Trichlorophenol	2.30	0.43	mg/kg dry	2.193	BRL	105	39-126			
2,4-Dichlorophenol	2.11	0.43	mg/kg dry	2.193	BRL	96	40-122			
2,4-Dimethylphenol	2.10	0.43	mg/kg dry	2.193	BRL	96	30-127			
2,4-Dinitrophenol	1.19	0.43	mg/kg dry	2.193	BRL	54	27-129			
2,4-Dinitrotoluene	2.16	0.43	mg/kg dry	2.193	BRL	99	48-126			
2,6-Dinitrotoluene	2.14	0.43	mg/kg dry	2.193	BRL	97	46-124			
2-Chloronaphthalene	3.18	0.43	mg/kg dry	2.193	BRL	145	41-114			M
2-Chlorophenol	1.92	0.43	mg/kg dry	2.193	BRL	88	34-121			
2-Methylnaphthalene	1.98	0.43	mg/kg dry	2.193	BRL	90	38-122			
2-Methylphenol	1.96	0.43	mg/kg dry	2.193	BRL	89	32-122			
2-Nitrophenol	1.78	0.43	mg/kg dry	2.193	BRL	81	36-123			
3,3'-Dichlorobenzidine	0.721	0.43	mg/kg dry	2.193	BRL	33	22-121			
3/4-Methylphenol	2.04	0.43	mg/kg dry	2.193	BRL	93	34-119			
4,6-Dinitro-2-methylphenol	1.61	0.43	mg/kg dry	2.193	BRL	74	29-132			
4-Bromophenyl phenyl ether	2.05	0.43	mg/kg dry	2.193	BRL	94	46-124			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
Matrix Spike (P5B0420-MS1)	**Source: 5020410-11**		Prepared: 02/23/15 Analyzed: 02/24/15							
4-Chloro-3-methylphenol	2.10	0.43	mg/kg dry	2.193	BRL	96	45-122			
4-Chloroaniline	1.38	0.43	mg/kg dry	2.193	BRL	63	17-106			
4-Chlorophenyl phenyl ether	2.15	0.43	mg/kg dry	2.193	BRL	98	45-121			
4-Nitrophenol	2.46	0.43	mg/kg dry	2.193	BRL	112	30-132			
Acenaphthene	2.05	0.43	mg/kg dry	2.193	BRL	94	40-123			
Acenaphthylene	2.06	0.43	mg/kg dry	2.193	BRL	94	32-132			
Anthracene	2.02	0.43	mg/kg dry	2.193	BRL	92	47-123			
Azobenzene	2.15	0.43	mg/kg dry	2.193	BRL	98	39-125			
Benzo(a)anthracene	2.05	0.43	mg/kg dry	2.193	BRL	93	49-126			
Benzo(a)pyrene	1.53	0.43	mg/kg dry	2.193	BRL	70	45-129			
Benzo(b)fluoranthene	1.56	0.43	mg/kg dry	2.193	BRL	71	45-132			
Benzo(g,h,i)perylene	1.59	0.43	mg/kg dry	2.193	BRL	72	43-134			
Benzo(k)fluoranthene	1.54	0.43	mg/kg dry	2.193	BRL	70	47-132			
Benzoic Acid	3.00	0.43	mg/kg dry	2.193	BRL	137	10-83			M
Benzyl alcohol	1.81	0.43	mg/kg dry	2.193	BRL	83	29-122			
bis(2-Chloroethoxy)methane	1.89	0.43	mg/kg dry	2.193	BRL	86	36-121			
Bis(2-Chloroethyl)ether	2.25	0.43	mg/kg dry	2.193	BRL	103	31-120			
Bis(2-chloroisopropyl)ether	1.77	0.43	mg/kg dry	2.193	BRL	81	33-131			
Bis(2-Ethylhexyl)phthalate	1.99	0.43	mg/kg dry	2.193	BRL	91	51-133			
Butyl benzyl phthalate	2.04	0.43	mg/kg dry	2.193	BRL	93	48-132			
Chrysene	2.18	0.43	mg/kg dry	2.193	BRL	99	50-124			
Dibenzo(a,h)anthracene	1.58	0.43	mg/kg dry	2.193	BRL	72	45-134			
Dibenzofuran	1.96	0.43	mg/kg dry	2.193	BRL	90	44-120			
Diethyl phthalate	2.06	0.43	mg/kg dry	2.193	BRL	94	50-124			
Dimethyl phthalate	2.03	0.43	mg/kg dry	2.193	BRL	92	48-124			
Di-n-butyl phthalate	1.95	0.43	mg/kg dry	2.193	BRL	89	51-128			
Di-n-octyl phthalate	1.49	0.43	mg/kg dry	2.193	BRL	68	45-140			
Fluoranthene	2.21	0.43	mg/kg dry	2.193	BRL	101	50-127			
Fluorene	2.09	0.43	mg/kg dry	2.193	BRL	95	43-125			
Hexachlorobenzene	2.20	0.43	mg/kg dry	2.193	BRL	100	45-122			
Hexachlorobutadiene	2.02	0.43	mg/kg dry	2.193	BRL	92	32-123			
Hexachlorocyclopentadiene	0.350	0.43	mg/kg dry	2.193	BRL	16	32-117			MI, J
Hexachloroethane	1.68	0.43	mg/kg dry	2.193	BRL	77	28-117			
Indeno(1,2,3-cd)pyrene	1.67	0.43	mg/kg dry	2.193	BRL	76	45-133			
Isophorone	2.02	0.43	mg/kg dry	2.193	BRL	92	30-122			
Naphthalene	1.89	0.43	mg/kg dry	2.193	BRL	86	35-123			
Nitrobenzene	1.90	0.43	mg/kg dry	2.193	BRL	86	34-122			
N-Nitroso-di-n-propylamine	1.90	0.43	mg/kg dry	2.193	BRL	87	36-120			
N-Nitrosodiphenylamine	1.95	0.43	mg/kg dry	2.193	BRL	89	38-127			
Pentachlorophenol	2.35	0.43	mg/kg dry	2.193	BRL	107	25-133			
Phenanthrene	2.03	0.43	mg/kg dry	2.193	BRL	93	50-121			
Phenol	1.98	0.43	mg/kg dry	2.193	BRL	90	34-121			
Pyrene	2.17	0.43	mg/kg dry	2.193	BRL	99	47-127			
Surrogate: 2,4,6-Tribromophenol	*4.98*		*mg/kg dry*	*4.386*		*114*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*2.26*		*mg/kg dry*	*2.193*		*103*	*44-115*			
Surrogate: 2-Fluorophenol	*4.27*		*mg/kg dry*	*4.386*		*97*	*35-115*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
Matrix Spike (P5B0420-MS1)		**Source: 5020410-11**		Prepared: 02/23/15 Analyzed: 02/24/15						
Surrogate: Nitrobenzene-d5	*2.00*		*mg/kg dry*	*2.193*		*91*	*37-122*			
Surrogate: Phenol-d5	*4.17*		*mg/kg dry*	*4.386*		*95*	*34-121*			
Surrogate: Terphenyl-d14	*2.52*		*mg/kg dry*	*2.193*		*115*	*54-127*			
Matrix Spike Dup (P5B0420-MSD1)		**Source: 5020410-11**		Prepared: 02/23/15 Analyzed: 02/24/15						
1,2,4-Trichlorobenzene	1.82	0.43	mg/kg dry	2.193	BRL	83	34-118	14	20	
1,2-Dichlorobenzene	1.63	0.43	mg/kg dry	2.193	BRL	74	33-117	13	20	
1,3-Dichlorobenzene	1.54	0.43	mg/kg dry	2.193	BRL	70	30-115	14	20	
1,4-Dichlorobenzene	1.59	0.43	mg/kg dry	2.193	BRL	72	31-115	14	20	
1-Methylnaphthalene	1.71	0.43	mg/kg dry	2.193	BRL	78	40-119	10	20	
2,4,6-Trichlorophenol	2.04	0.43	mg/kg dry	2.193	BRL	93	39-126	12	20	
2,4-Dichlorophenol	1.94	0.43	mg/kg dry	2.193	BRL	89	40-122	8	20	
2,4-Dimethylphenol	1.90	0.43	mg/kg dry	2.193	BRL	87	30-127	10	20	
2,4-Dinitrophenol	1.34	0.43	mg/kg dry	2.193	BRL	61	27-129	12	20	
2,4-Dinitrotoluene	1.96	0.43	mg/kg dry	2.193	BRL	89	48-126	10	20	
2,6-Dinitrotoluene	2.03	0.43	mg/kg dry	2.193	BRL	93	46-124	5	20	
2-Chloronaphthalene	2.35	0.43	mg/kg dry	2.193	BRL	107	41-114	30	20	D
2-Chlorophenol	1.70	0.43	mg/kg dry	2.193	BRL	78	34-121	12	20	
2-Methylnaphthalene	1.81	0.43	mg/kg dry	2.193	BRL	82	38-122	9	20	
2-Methylphenol	1.71	0.43	mg/kg dry	2.193	BRL	78	32-122	13	20	
2-Nitrophenol	1.67	0.43	mg/kg dry	2.193	BRL	76	36-123	7	20	
3,3'-Dichlorobenzidine	0.710	0.43	mg/kg dry	2.193	BRL	32	22-121	2	20	
3/4-Methylphenol	1.81	0.43	mg/kg dry	2.193	BRL	83	34-119	12	20	
4,6-Dinitro-2-methylphenol	1.53	0.43	mg/kg dry	2.193	BRL	70	29-132	5	20	
4-Bromophenyl phenyl ether	1.83	0.43	mg/kg dry	2.193	BRL	84	46-124	11	20	
4-Chloro-3-methylphenol	1.90	0.43	mg/kg dry	2.193	BRL	87	45-122	10	20	
4-Chloroaniline	1.24	0.43	mg/kg dry	2.193	BRL	56	17-106	11	20	
4-Chlorophenyl phenyl ether	1.92	0.43	mg/kg dry	2.193	BRL	88	45-121	11	20	
4-Nitrophenol	2.33	0.43	mg/kg dry	2.193	BRL	106	30-132	6	20	
Acenaphthene	1.79	0.43	mg/kg dry	2.193	BRL	82	40-123	13	20	
Acenaphthylene	1.86	0.43	mg/kg dry	2.193	BRL	85	32-132	10	20	
Anthracene	1.79	0.43	mg/kg dry	2.193	BRL	82	47-123	12	20	
Azobenzene	1.87	0.43	mg/kg dry	2.193	BRL	85	39-125	14	20	
Benzo(a)anthracene	1.81	0.43	mg/kg dry	2.193	BRL	83	49-126	12	20	
Benzo(a)pyrene	1.39	0.43	mg/kg dry	2.193	BRL	64	45-129	9	20	
Benzo(b)fluoranthene	1.41	0.43	mg/kg dry	2.193	BRL	64	45-132	10	20	
Benzo(g,h,i)perylene	1.40	0.43	mg/kg dry	2.193	BRL	64	43-134	12	20	
Benzo(k)fluoranthene	1.35	0.43	mg/kg dry	2.193	BRL	62	47-132	13	20	
Benzoic Acid	2.63	0.43	mg/kg dry	2.193	BRL	120	10-83	13	20	M
Benzyl alcohol	1.61	0.43	mg/kg dry	2.193	BRL	74	29-122	12	20	
bis(2-Chloroethoxy)methane	1.70	0.43	mg/kg dry	2.193	BRL	78	36-121	11	20	
Bis(2-Chloroethyl)ether	1.76	0.43	mg/kg dry	2.193	BRL	80	31-120	24	20	D
Bis(2-chloroisopropyl)ether	1.58	0.43	mg/kg dry	2.193	BRL	72	33-131	11	20	
Bis(2-Ethylhexyl)phthalate	1.80	0.43	mg/kg dry	2.193	BRL	82	51-133	10	20	
Butyl benzyl phthalate	1.84	0.43	mg/kg dry	2.193	BRL	84	48-132	10	20	
Chrysene	1.98	0.43	mg/kg dry	2.193	BRL	90	50-124	10	20	
Dibenzo(a,h)anthracene	1.43	0.43	mg/kg dry	2.193	BRL	65	45-134	10	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0420 - 3546										
Matrix Spike Dup (P5B0420-MSD1)	**Source: 5020410-11**			Prepared: 02/23/15 Analyzed: 02/24/15						
Dibenzofuran	1.77	0.43	mg/kg dry	2.193	BRL	81	44-120	10	20	
Diethyl phthalate	1.87	0.43	mg/kg dry	2.193	BRL	85	50-124	9	20	
Dimethyl phthalate	1.85	0.43	mg/kg dry	2.193	BRL	84	48-124	9	20	
Di-n-butyl phthalate	1.74	0.43	mg/kg dry	2.193	BRL	79	51-128	12	20	
Di-n-octyl phthalate	1.36	0.43	mg/kg dry	2.193	BRL	62	45-140	9	20	
Fluoranthene	1.92	0.43	mg/kg dry	2.193	BRL	87	50-127	14	20	
Fluorene	1.89	0.43	mg/kg dry	2.193	BRL	86	43-125	10	20	
Hexachlorobenzene	1.95	0.43	mg/kg dry	2.193	BRL	89	45-122	12	20	
Hexachlorobutadiene	1.92	0.43	mg/kg dry	2.193	BRL	88	32-123	5	20	
Hexachlorocyclopentadiene	0.768	0.43	mg/kg dry	2.193	BRL	35	32-117	75	20	D
Hexachloroethane	1.52	0.43	mg/kg dry	2.193	BRL	70	28-117	10	20	
Indeno(1,2,3-cd)pyrene	1.48	0.43	mg/kg dry	2.193	BRL	68	45-133	12	20	
Isophorone	1.78	0.43	mg/kg dry	2.193	BRL	81	30-122	13	20	
Naphthalene	1.71	0.43	mg/kg dry	2.193	BRL	78	35-123	10	20	
Nitrobenzene	1.73	0.43	mg/kg dry	2.193	BRL	79	34-122	9	20	
N-Nitroso-di-n-propylamine	1.69	0.43	mg/kg dry	2.193	BRL	77	36-120	12	20	
N-Nitrosodiphenylamine	1.78	0.43	mg/kg dry	2.193	BRL	81	38-127	9	20	
Pentachlorophenol	2.08	0.43	mg/kg dry	2.193	BRL	95	25-133	12	20	
Phenanthrene	1.78	0.43	mg/kg dry	2.193	BRL	81	50-121	13	20	
Phenol	1.73	0.43	mg/kg dry	2.193	BRL	79	34-121	13	20	
Pyrene	1.93	0.43	mg/kg dry	2.193	BRL	88	47-127	12	20	
Surrogate: 2,4,6-Tribromophenol	*4.53*		*mg/kg dry*	*4.386*		*103*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*2.07*		*mg/kg dry*	*2.193*		*94*	*44-115*			
Surrogate: 2-Fluorophenol	*3.76*		*mg/kg dry*	*4.386*		*86*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.82*		*mg/kg dry*	*2.193*		*83*	*37-122*			
Surrogate: Phenol-d5	*3.65*		*mg/kg dry*	*4.386*		*83*	*34-121*			
Surrogate: Terphenyl-d14	*2.22*		*mg/kg dry*	*2.193*		*101*	*54-127*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0436 - MADEP VPH (S)										
Blank (P5B0436-BLK1)				Prepared & Analyzed: 02/24/15						
C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	*10.1*		*mg/kg wet*	*10.67*		*95*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*10.1*		*mg/kg wet*	*10.67*		*95*	*70-130*			
LCS (P5B0436-BS1)				Prepared & Analyzed: 02/24/15						
C5-C8 Aliphatics	34.0	5.0	mg/kg wet	32.00		106	70-130			
C9-C10 Aromatics	10.9	5.0	mg/kg wet	10.67		102	70-130			
C9-C12 Aliphatic	35.9	5.0	mg/kg wet	32.00		112	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*11.0*		*mg/kg wet*	*10.67*		*103*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*10.8*		*mg/kg wet*	*10.67*		*101*	*70-130*			
LCS Dup (P5B0436-BSD1)				Prepared & Analyzed: 02/24/15						
C5-C8 Aliphatics	33.5	5.0	mg/kg wet	32.00		105	70-130	2	50	
C9-C10 Aromatics	10.6	5.0	mg/kg wet	10.67		100	70-130	2	50	
C9-C12 Aliphatic	36.1	5.0	mg/kg wet	32.00		113	70-130	0.6	50	
Surrogate: 2,5-Dibromotoluene (PID)	*10.8*		*mg/kg wet*	*10.67*		*101*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*10.6*		*mg/kg wet*	*10.67*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0442 - 5035										
Blank (P5B0442-BLK1)				Prepared & Analyzed: 02/25/15						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*4.80*		*mg/kg wet*	*5.000*		*96*	*50-137*			
LCS (P5B0442-BS1)				Prepared & Analyzed: 02/25/15						
Gasoline Range Organics	55.8	5.0	mg/kg wet	50.00		112	41-138			
Surrogate: a,a,a-Trifluorotoluene	*4.90*		*mg/kg wet*	*5.000*		*98*	*50-137*			
LCS Dup (P5B0442-BSD1)				Prepared & Analyzed: 02/25/15						
Gasoline Range Organics	58.1	5.0	mg/kg wet	50.00		116	41-138	4	20	
Surrogate: a,a,a-Trifluorotoluene	*4.65*		*mg/kg wet*	*5.000*		*93*	*50-137*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0437 - 3546										
Blank (P5B0437-BLK1)				Prepared: 02/24/15 Analyzed: 02/25/15						
C9-C18 Aliphatics	BRL	10	mg/kg wet							
C19-C36 Aliphatics	BRL	10	mg/kg wet							
C11-C22 Aromatics	BRL	10	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.37*		*mg/kg wet*	*1.994*		*69*	*40-140*			
Surrogate: o-Terphenyl	*1.59*		*mg/kg wet*	*1.994*		*80*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.42*		*mg/kg wet*	*3.988*		*86*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.01*		*mg/kg wet*	*3.988*		*76*	*40-140*			
LCS (P5B0437-BS1)				Prepared: 02/24/15 Analyzed: 02/25/15						
C9-C18 Aliphatics	37.4	10	mg/kg wet	60.00		62	40-140			
C19-C36 Aliphatics	67.4	10	mg/kg wet	80.00		84	40-140			
C11-C22 Aromatics	136	10	mg/kg wet	170.0		80	40-140			
Surrogate: 1-Chlorooctadecane	*1.59*		*mg/kg wet*	*2.000*		*79*	*40-140*			
Surrogate: o-Terphenyl	*1.73*		*mg/kg wet*	*2.000*		*87*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.91*		*mg/kg wet*	*4.000*		*98*	*40-140*			
Surrogate: 2-Bromonaphthalene	*4.01*		*mg/kg wet*	*4.000*		*100*	*40-140*			
LCS Dup (P5B0437-BSD1)				Prepared: 02/24/15 Analyzed: 02/25/15						
C9-C18 Aliphatics	39.7	10	mg/kg wet	59.94		66	40-140	6	50	
C19-C36 Aliphatics	76.4	10	mg/kg wet	79.92		96	40-140	13	50	
C11-C22 Aromatics	142	10	mg/kg wet	169.8		84	40-140	4	50	
Surrogate: 1-Chlorooctadecane	*1.74*		*mg/kg wet*	*1.998*		*87*	*40-140*			
Surrogate: o-Terphenyl	*1.80*		*mg/kg wet*	*1.998*		*90*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.65*		*mg/kg wet*	*3.996*		*91*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.77*		*mg/kg wet*	*3.996*		*94*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0517 - 3546										
Blank (P5B0517-BLK1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*0.774*		*mg/kg wet*	*1.333*		*58*	*49-124*			
LCS (P5B0517-BS1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	58.1	7.0	mg/kg wet	66.64		87	55-109			
Surrogate: o-Terphenyl	*1.24*		*mg/kg wet*	*1.333*		*93*	*49-124*			
LCS Dup (P5B0517-BSD1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	66.5	7.0	mg/kg wet	66.64		100	55-109	14	20	
Surrogate: o-Terphenyl	*1.36*		*mg/kg wet*	*1.333*		*102*	*49-124*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0463 - 3050B										
Blank (P5B0463-BLK1)				Prepared & Analyzed: 02/25/15						
Chromium	BRL	0.25	mg/kg wet							
Lead	BRL	0.25	mg/kg wet							
LCS (P5B0463-BS1)				Prepared & Analyzed: 02/25/15						
Chromium	26.4	0.25	mg/kg wet	25.00		106	80-120			
Lead	25.5	0.25	mg/kg wet	25.00		102	80-120			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020410
Time Submitted: 2/20/2015 4:45:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0511 - Solids, Dry Weight										
Blank (P5B0511-BLK1)				Prepared & Analyzed: 02/26/15						
% Solids	100	0.100	% by Weight							
Duplicate (P5B0511-DUP3)		**Source: 5020410-02**		Prepared & Analyzed: 02/26/15						
% Solids	81.9	0.100	% by Weight		81.4			0.6	20	
Duplicate (P5B0511-DUP4)		**Source: 5020410-09**		Prepared & Analyzed: 02/26/15						
% Solids	74.7	0.100	% by Weight		75.7			1	20	

Sample Extraction Data

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020410-01	P5B0517	30.02 g	1 mL	02/27/15 11:30

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020410-04	P5B0437	10.04 g	2 mL	02/24/15 10:10
5020410-05	P5B0437	10.07 g	2 mL	02/24/15 10:10
5020410-06	P5B0437	10.07 g	2 mL	02/24/15 10:10
5020410-11	P5B0437	10.02 g	2 mL	02/24/15 10:10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020410-01	P5B0442	5.52 g	5 mL	02/25/15 14:30
5020410-02	P5B0442	5.8 g	5 mL	02/25/15 14:30
5020410-03	P5B0442	5.61 g	5 mL	02/25/15 14:30
5020410-07	P5B0442	6.24 g	5 mL	02/25/15 14:30
5020410-08	P5B0442	5.01 g	5 mL	02/25/15 14:30
5020410-09	P5B0442	5.71 g	5 mL	02/25/15 14:30
5020410-10	P5B0442	5.2 g	5 mL	02/25/15 14:30

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
5020410-01	P5B0511	30 g	30 g	02/26/15 16:05
5020410-02	P5B0511	30 g	30 g	02/26/15 16:05
5020410-03	P5B0511	30 g	30 g	02/26/15 16:05
5020410-04	P5B0511	30 g	30 g	02/26/15 16:05
5020410-05	P5B0511	30 g	30 g	02/26/15 16:05
5020410-06	P5B0511	30 g	30 g	02/26/15 16:05
5020410-07	P5B0511	30 g	30 g	02/26/15 16:05
5020410-08	P5B0511	30 g	30 g	02/26/15 16:05
5020410-09	P5B0511	30 g	30 g	02/26/15 16:05
5020410-10	P5B0511	30 g	30 g	02/26/15 16:05
5020410-11	P5B0511	30 g	30 g	02/26/15 16:05

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020410-04	P5B0420	30 g	1 mL	02/23/15 14:15
5020410-05	P5B0420	30 g	1 mL	02/23/15 14:15
5020410-06	P5B0420	30.02 g	1 mL	02/23/15 14:15
5020410-11	P5B0420	30 g	1 mL	02/23/15 14:15

Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
5020410-04	P5B0463	1.98 g	50 mL	02/25/15 9:10
5020410-05	P5B0463	2.04 g	50 mL	02/25/15 9:10
5020410-06	P5B0463	1.97 g	50 mL	02/25/15 9:10
5020410-11	P5B0463	1.99 g	50 mL	02/25/15 9:10

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5020410-12	P5B0450	10 mL	10 mL	02/23/15 10:02

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Extraction Data

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020410-02	P5B0475	6 g	5 mL	02/25/15 12:51
5020410-03	P5B0475	5.5 g	5 mL	02/25/15 12:51
5020410-04	P5B0475	6.16 g	5 mL	02/25/15 12:51
5020410-05	P5B0475	5.28 g	5 mL	02/25/15 12:51
5020410-06	P5B0475	6.13 g	5 mL	02/25/15 12:51
5020410-07	P5B0475	5.38 g	5 mL	02/25/15 12:51
5020410-08	P5B0475	5.32 g	5 mL	02/25/15 12:51
5020410-09	P5B0475	4.65 g	5 mL	02/25/15 12:51
5020410-10	P5B0475	5.02 g	5 mL	02/25/15 12:51
5020410-11	P5B0475	5.82 g	5 mL	02/25/15 12:51

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date/Time
5020410-04	P5B0436	19.58 g	16 mL	02/24/15 9:56
5020410-05	P5B0436	18.16 g	16 mL	02/24/15 9:56
5020410-06	P5B0436	19.13 g	16 mL	02/24/15 9:56
5020410-11	P5B0436	19.27 g	16 mL	02/24/15 9:56

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING: ____

Client Company Name: URS Corp
Report To/Contact Name: James McDorman
Reporting Address: 6000 Fairview Rd, Suite 200 Charlotte, NC
Phone: 704-716-0734 Fax (Yes) (No):
Email Address: James.McDorman@Aecom.com
EDD Type: PDF___ Excel___ Other___
Site Location Name: Airport Rental Car Fac.
Site Location Physical Address: ~~Airport~~ Rd, Charlote Rental Car

Project Name: Airport Rental Car Facility
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Michelle Friedman
Address: 9115 Carnegie Blvd, Suite 370 Charlotte, NC 28211

Purchase Order No./Billing Reference 60340238
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IRT-10 Observed: 4.4 °C / Corr: 3.0 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC___ DoD___ FL___ NC X
SC___ OTHER___ N/A___
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	*TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260B	GRO	DRO	VPH/EPH	8270	CR+PB	REMARKS	PRISM LAB ID NO.
Hertz #B1(8-10)	2/14/15	1145	Soil	VOA+G	4	40mL	Methanol None		X	X					01
Hertz #B2(8-10)	↓	1150	↓	VOA+G	~~4~~ 6	40mL	methanol unp.	X	X						02
Hertz #B3(2-4)	↓	1155	↓	↓	↓	↓	↓	X	X						03
Hertz #B4(6-8)	↓	1200	↓	VOA G	8	40mL	methanol unp.	X			X	X	X		04
Budget TMW-1	↓	1300	↓	VOA+G	8	40mL	Methanol unp.	X		~~X~~	X	X	X	No DRO	05
Budget TMW-2(6-8)	2/19/15	1330	↓	VOA G	8	40mL-4oz	unpreserved methanol	X		~~X~~	X	X	X	No DRO	06
Budget TMW-3	↓	1615	↓	↓	6	↓	↓	X	X						07
Budget TMW-4	↓	1530	↓	VOA+G	6	40mL	methanol unp.	X	X						08
Budget TMW-5	2/19/15	1620	↓	VOA G	6	40mL	methanol unp.	X	X						09
~~Budget TMW-6~~	↓		↓												

Sampler's Signature [signature] Sampled By (Print Name) Brandt Morrow Affiliation ____

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	2-20-15	1020
[signature] 2-20-15 / 1645	Received By: (Signature)		
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	2/20/15	1645

Method of Shipment: **NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.**

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other ____

COC Group No. S020410

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: ☐ NC ☐ SC ☐ | UST: ☐ NC ☐ SC ☐ | GROUNDWATER: ☐ NC ☐ SC ☐ | DRINKING WATER: ☐ NC ☐ SC ☐ | SOLID WASTE: ☐ NC ☐ SC ☐ | RCRA: ☐ NC ☐ SC ☐ | CERCLA ☐ NC ☐ SC ☐ | LANDFILL ☐ NC ☐ SC ☐ | OTHER: ☐ NC ☐ SC ☐

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING: ____

Project Name: Airport Rental Car Facility

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: Michele Creed

Address: 5925 Carnegie Blvd suite 370 Charlotte, NC 28209

Purchase Order No./Billing Reference 60340238

Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days

"Working Days" ❑ 6-9 Days ❑ Standard 10 days ❑ Rush Work Must Be Pre-Approved

Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

Client Company Name: URS Corp

Report To/Contact Name: James McDorman

Reporting Address: 1000 Sarvien Rd Charlotte, NC

Phone: 704-716-0734 Fax (Yes) (No): ____

Email Address: James.McDorman@urs.com

EDD Type: PDF____ Excel____ Other____

Site Location Name: Airport Rental Car Fac

Site Location Physical Address: Rental Car RD

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IRT-10 Observed: 4.4 °C / Corr: 3.0 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC____ DoD____ FL____ NC X
SC____ OTHER____ N/A____

Water Chlorinated: YES___ NO___

Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260B	GRO	DRO	VPH+EPH	8270	Cr+Pb	REMARKS	PRISM LAB ID NO.
Hertz B3 (8-10)	2/14/15	1205	Soil	4 VOA +G	6	40mL	Methanol Un-pres	X	X						10
Budget TMW-3(10?)	↓	1500	"		8	40mL	Methanol Un-pres.	X		~~X~~	X	X	X	No DRO	11
TB	2/19/15		Water					X							

Sampler's Signature [signature] Sampled By (Print Name) Brandt Morrow Affiliation ____

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	2-20-15	1020
Relinquished By: (Signature) [signature] 2-20-15 1645	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 2/20/15	1645

Method of Shipment: **NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.**

❑ Fed Ex ❑ UPS ❑ Hand-delivered ☒ Prism Field Service ❑ Other ____

COC Group No. 5020410

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: ❑ NC ❑ SC ❑ ____ | UST: ❑ NC ❑ SC ❑ ____ | GROUNDWATER: ❑ NC ❑ SC ❑ ____ | DRINKING WATER: ❑ NC ❑ SC ❑ ____ | SOLID WASTE: ❑ NC ❑ SC ❑ ____ | RCRA: ❑ NC ❑ SC ❑ ____ | CERCLA ❑ NC ❑ SC ❑ ____ | LANDFILL ❑ NC ❑ SC ❑ ____ | OTHER: ❑ NC ❑ SC ❑ ____

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/06/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/24/2015
Prism Work Order: 5020423

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones

President/Project Manager

Reviewed By Robbi A. Jones

President/Project Manager

Data Qualifiers Key Reference:

CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
M	Matrix spike outside of the control limits.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

03/06/2015

Prism Work Order: 5020423

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Advantage TMW-1	5020423-01	Solid	02/23/15	02/24/15
Advantage TMW-2	5020423-02	Solid	02/23/15	02/24/15
Advantage TMW-3 (4-6)	5020423-03	Solid	02/23/15	02/24/15
Advantage TMW-3 (8-10)	5020423-04	Solid	02/23/15	02/24/15
Dup 1	5020423-05	Solid	02/23/15	02/24/15
Advantage TMW-4 (0-2)	5020423-06	Solid	02/23/15	02/24/15
Advantage TMW-4 (8-10)	5020423-07	Solid	02/23/15	02/24/15
Advantage TMW-5	5020423-08	Solid	02/23/15	02/24/15
Payless B2	5020423-09	Solid	02/23/15	02/24/15
Dollar TMW-1	5020423-10	Solid	02/23/15	02/24/15
Trip Blank	5020423-11	Water	02/23/15	02/24/15

Samples were received in good condition at 2.0 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/06/2015

Prism Work Order: 5020423

Prism ID	Client ID	Parameter	Method	Result		Units
5020423-02	Advantage TMW-2	Methyl-tert-Butyl Ether	8260B	0.0023	J	mg/kg dry
5020423-02	Advantage TMW-2	tert-Amyl Alcohol	8260B	0.0069	J	mg/kg dry
5020423-06	Advantage TMW-4 (0-2)	Naphthalene	8260B	0.064		mg/kg dry
5020423-07	Advantage TMW-4 (8-10)	Methyl-tert-Butyl Ether	8260B	0.029		mg/kg dry
5020423-07	Advantage TMW-4 (8-10)	tert-Amyl Alcohol	8260B	0.027	J	mg/kg dry
5020423-09	Payless B2	C19-C36 Aliphatics	MADEP EPH	8.4	J	mg/kg dry
5020423-09	Payless B2	Chromium	*6010C	21		mg/kg dry
5020423-09	Payless B2	Lead	*6010C	6.7		mg/kg dry

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-1
Prism Sample ID: 5020423-01
Prism Work Order: 5020423
Time Collected: 02/23/15 10:20
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.5	1.2	50	*8015C	2/27/15 19:02	ANG	P5B0520
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*85 %*		*50-137*	
General Chemistry Parameters									
% Solids	**79.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/3/15 14:20**	**MJO**	**P5C0063**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00045	1	8260B	2/25/15 17:45	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/25/15 17:45	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B	2/25/15 17:45	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0055	0.00048	1	8260B	2/25/15 17:45	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0055	0.00015	1	8260B	2/25/15 17:45	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00024	1	8260B	2/25/15 17:45	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00030	1	8260B	2/25/15 17:45	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00031	1	8260B	2/25/15 17:45	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0055	0.00070	1	8260B	2/25/15 17:45	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00041	1	8260B	2/25/15 17:45	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00042	1	8260B	2/25/15 17:45	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0055	0.00022	1	8260B	2/25/15 17:45	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/25/15 17:45	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/25/15 17:45	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00034	1	8260B	2/25/15 17:45	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00041	1	8260B	2/25/15 17:45	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00036	1	8260B	2/25/15 17:45	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0055	0.00027	1	8260B	2/25/15 17:45	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00022	1	8260B	2/25/15 17:45	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/25/15 17:45	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00028	1	8260B	2/25/15 17:45	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/25/15 17:45	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/25/15 17:45	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.055	0.0013	1	8260B	2/25/15 17:45	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0033	0.00032	1	8260B	2/25/15 17:45	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0055	0.00046	1	8260B	2/25/15 17:45	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0055	0.00030	1	8260B	2/25/15 17:45	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0055	0.00031	1	8260B	2/25/15 17:45	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0055	0.00062	1	8260B	2/25/15 17:45	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.011	0.00068	1	8260B	2/25/15 17:45	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0055	0.00027	1	8260B	2/25/15 17:45	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	2/25/15 17:45	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.011	0.00046	1	8260B	2/25/15 17:45	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0055	0.00040	1	8260B	2/25/15 17:45	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B	2/25/15 17:45	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-1
Prism Sample ID: 5020423-01
Prism Work Order: 5020423
Time Collected: 02/23/15 10:20
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00023	1	8260B	2/25/15 17:45	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00018	1	8260B	2/25/15 17:45	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0055	0.00023	1	8260B	2/25/15 17:45	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0055	0.00025	1	8260B	2/25/15 17:45	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.27	0.11	1	8260B	2/25/15 17:45	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0055	0.00021	1	8260B	2/25/15 17:45	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0055	0.00022	1	8260B	2/25/15 17:45	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0055	0.00032	1	8260B	2/25/15 17:45	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00050	1	8260B	2/25/15 17:45	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.055	0.00049	1	8260B	2/25/15 17:45	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00049	1	8260B	2/25/15 17:45	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.055	0.00047	1	8260B	2/25/15 17:45	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0055	0.00031	1	8260B	2/25/15 17:45	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00018	1	8260B	2/25/15 17:45	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.011	0.00017	1	8260B	2/25/15 17:45	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0055	0.00028	1	8260B	2/25/15 17:45	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/25/15 17:45	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0055	0.00022	1	8260B	2/25/15 17:45	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/25/15 17:45	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/25/15 17:45	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.44	0.0045	1	8260B	2/25/15 17:45	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00047	1	8260B	2/25/15 17:45	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.22	0.00038	1	8260B	2/25/15 17:45	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.44	0.00055	1	8260B	2/25/15 17:45	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0055	0.00018	1	8260B	2/25/15 17:45	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00038	1	8260B	2/25/15 17:45	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/25/15 17:45	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0055	0.00031	1	8260B	2/25/15 17:45	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/25/15 17:45	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	2/25/15 17:45	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0055	0.00035	1	8260B	2/25/15 17:45	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0055	0.00035	1	8260B	2/25/15 17:45	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.027	0.00075	1	8260B	2/25/15 17:45	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/25/15 17:45	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.016	0.0010	1	8260B	2/25/15 17:45	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*122 %*	*70-130*
Dibromofluoromethane	*121 %*	*84-123*
Toluene-d8	*124 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-2
Prism Sample ID: 5020423-02
Prism Work Order: 5020423
Time Collected: 02/23/15 11:35
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.7	0.99	50	*8015C	2/27/15 19:30	ANG	P5B0520
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*101 %*		*50-137*	
General Chemistry Parameters									
% Solids	**81.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/3/15 14:20**	**MJO**	**P5C0063**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0054	0.00044	1	8260B	2/25/15 18:09	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 18:09	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0054	0.00037	1	8260B	2/25/15 18:09	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0054	0.00048	1	8260B	2/25/15 18:09	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0054	0.00015	1	8260B	2/25/15 18:09	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00024	1	8260B	2/25/15 18:09	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00030	1	8260B	2/25/15 18:09	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0054	0.00031	1	8260B	2/25/15 18:09	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0054	0.00069	1	8260B	2/25/15 18:09	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0054	0.00040	1	8260B	2/25/15 18:09	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0054	0.00041	1	8260B	2/25/15 18:09	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0054	0.00022	1	8260B	2/25/15 18:09	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.00025	1	8260B	2/25/15 18:09	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0054	0.00032	1	8260B	2/25/15 18:09	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0054	0.00033	1	8260B	2/25/15 18:09	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0054	0.00041	1	8260B	2/25/15 18:09	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.00036	1	8260B	2/25/15 18:09	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0054	0.00027	1	8260B	2/25/15 18:09	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.00021	1	8260B	2/25/15 18:09	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 18:09	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0054	0.00028	1	8260B	2/25/15 18:09	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0054	0.00032	1	8260B	2/25/15 18:09	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 18:09	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.054	0.0013	1	8260B	2/25/15 18:09	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0032	0.00031	1	8260B	2/25/15 18:09	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0054	0.00045	1	8260B	2/25/15 18:09	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0054	0.00030	1	8260B	2/25/15 18:09	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0054	0.00030	1	8260B	2/25/15 18:09	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0054	0.00061	1	8260B	2/25/15 18:09	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.011	0.00067	1	8260B	2/25/15 18:09	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0054	0.00027	1	8260B	2/25/15 18:09	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0054	0.00029	1	8260B	2/25/15 18:09	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.011	0.00045	1	8260B	2/25/15 18:09	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0054	0.00039	1	8260B	2/25/15 18:09	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0054	0.00036	1	8260B	2/25/15 18:09	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-2
Prism Sample ID: 5020423-02
Prism Work Order: 5020423
Time Collected: 02/23/15 11:35
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00023	1	8260B	2/25/15 18:09	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00018	1	8260B	2/25/15 18:09	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0054	0.00022	1	8260B	2/25/15 18:09	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0054	0.00025	1	8260B	2/25/15 18:09	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.27	0.11	1	8260B	2/25/15 18:09	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0054	0.00021	1	8260B	2/25/15 18:09	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0054	0.00022	1	8260B	2/25/15 18:09	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0054	0.00032	1	8260B	2/25/15 18:09	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00050	1	8260B	2/25/15 18:09	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.054	0.00049	1	8260B	2/25/15 18:09	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00049	1	8260B	2/25/15 18:09	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.054	0.00046	1	8260B	2/25/15 18:09	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0054	0.00030	1	8260B	2/25/15 18:09	MSC	P5B0475
Methyl-tert-Butyl Ether	**0.0023 J**	**mg/kg dry**	**0.011**	**0.00017**	**1**	**8260B**	**2/25/15 18:09**	**MSC**	**P5B0475**
Naphthalene	BRL	mg/kg dry	0.011	0.00017	1	8260B	2/25/15 18:09	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0054	0.00028	1	8260B	2/25/15 18:09	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0054	0.00032	1	8260B	2/25/15 18:09	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0054	0.00022	1	8260B	2/25/15 18:09	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 18:09	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0054	0.00033	1	8260B	2/25/15 18:09	MSC	P5B0475
tert-Amyl Alcohol	**0.0069 J**	**mg/kg dry**	**0.43**	**0.0045**	**1**	**8260B**	**2/25/15 18:09**	**MSC**	**P5B0475**
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00046	1	8260B	2/25/15 18:09	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.22	0.00038	1	8260B	2/25/15 18:09	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.43	0.00054	1	8260B	2/25/15 18:09	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0054	0.00018	1	8260B	2/25/15 18:09	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00038	1	8260B	2/25/15 18:09	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 18:09	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0054	0.00031	1	8260B	2/25/15 18:09	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00032	1	8260B	2/25/15 18:09	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00028	1	8260B	2/25/15 18:09	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0054	0.00035	1	8260B	2/25/15 18:09	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0054	0.00035	1	8260B	2/25/15 18:09	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.027	0.00074	1	8260B	2/25/15 18:09	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0054	0.00026	1	8260B	2/25/15 18:09	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.016	0.0010	1	8260B	2/25/15 18:09	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*117 %*	*70-130*
Dibromofluoromethane	*120 %*	*84-123*
Toluene-d8	*121 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-3 (4-6)
Prism Sample ID: 5020423-03
Prism Work Order: 5020423
Time Collected: 02/23/15 10:50
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.6	0.97	50	*8015C	2/27/15 19:59	ANG	P5B0520
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*52 %*		*50-137*	
General Chemistry Parameters									
% Solids	**81.0**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/3/15 14:20**	**MJO**	**P5C0063**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0056	0.00046	1	8260B	2/25/15 18:33	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0056	0.00027	1	8260B	2/25/15 18:33	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0056	0.00038	1	8260B	2/25/15 18:33	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0056	0.00050	1	8260B	2/25/15 18:33	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0056	0.00016	1	8260B	2/25/15 18:33	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0056	0.00025	1	8260B	2/25/15 18:33	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0056	0.00031	1	8260B	2/25/15 18:33	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0056	0.00032	1	8260B	2/25/15 18:33	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0056	0.00072	1	8260B	2/25/15 18:33	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0056	0.00042	1	8260B	2/25/15 18:33	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0056	0.00043	1	8260B	2/25/15 18:33	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0056	0.00023	1	8260B	2/25/15 18:33	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0056	0.00026	1	8260B	2/25/15 18:33	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0056	0.00034	1	8260B	2/25/15 18:33	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0056	0.00035	1	8260B	2/25/15 18:33	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0056	0.00043	1	8260B	2/25/15 18:33	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0056	0.00037	1	8260B	2/25/15 18:33	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0056	0.00028	1	8260B	2/25/15 18:33	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0056	0.00022	1	8260B	2/25/15 18:33	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0056	0.00027	1	8260B	2/25/15 18:33	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0056	0.00029	1	8260B	2/25/15 18:33	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0056	0.00034	1	8260B	2/25/15 18:33	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0056	0.00027	1	8260B	2/25/15 18:33	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.056	0.0014	1	8260B	2/25/15 18:33	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0034	0.00033	1	8260B	2/25/15 18:33	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0056	0.00047	1	8260B	2/25/15 18:33	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0056	0.00031	1	8260B	2/25/15 18:33	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0056	0.00031	1	8260B	2/25/15 18:33	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0056	0.00064	1	8260B	2/25/15 18:33	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.011	0.00070	1	8260B	2/25/15 18:33	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0056	0.00028	1	8260B	2/25/15 18:33	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0056	0.00030	1	8260B	2/25/15 18:33	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.011	0.00047	1	8260B	2/25/15 18:33	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0056	0.00041	1	8260B	2/25/15 18:33	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0056	0.00038	1	8260B	2/25/15 18:33	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-3 (4-6)
Prism Sample ID: 5020423-03
Prism Work Order: 5020423
Time Collected: 02/23/15 10:50
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0056	0.00024	1	8260B	2/25/15 18:33	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0056	0.00019	1	8260B	2/25/15 18:33	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0056	0.00023	1	8260B	2/25/15 18:33	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0056	0.00026	1	8260B	2/25/15 18:33	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.28	0.11	1	8260B	2/25/15 18:33	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0056	0.00022	1	8260B	2/25/15 18:33	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0056	0.00023	1	8260B	2/25/15 18:33	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0056	0.00033	1	8260B	2/25/15 18:33	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00052	1	8260B	2/25/15 18:33	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.056	0.00051	1	8260B	2/25/15 18:33	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00051	1	8260B	2/25/15 18:33	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.056	0.00048	1	8260B	2/25/15 18:33	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0056	0.00032	1	8260B	2/25/15 18:33	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00018	1	8260B	2/25/15 18:33	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.011	0.00018	1	8260B	2/25/15 18:33	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0056	0.00029	1	8260B	2/25/15 18:33	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0056	0.00033	1	8260B	2/25/15 18:33	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0056	0.00023	1	8260B	2/25/15 18:33	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0056	0.00027	1	8260B	2/25/15 18:33	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0056	0.00034	1	8260B	2/25/15 18:33	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.45	0.0047	1	8260B	2/25/15 18:33	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00048	1	8260B	2/25/15 18:33	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.23	0.00040	1	8260B	2/25/15 18:33	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.45	0.00056	1	8260B	2/25/15 18:33	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0056	0.00019	1	8260B	2/25/15 18:33	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00040	1	8260B	2/25/15 18:33	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0056	0.00027	1	8260B	2/25/15 18:33	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0056	0.00032	1	8260B	2/25/15 18:33	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0056	0.00034	1	8260B	2/25/15 18:33	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0056	0.00030	1	8260B	2/25/15 18:33	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0056	0.00036	1	8260B	2/25/15 18:33	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0056	0.00036	1	8260B	2/25/15 18:33	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.028	0.00077	1	8260B	2/25/15 18:33	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0056	0.00027	1	8260B	2/25/15 18:33	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.017	0.0011	1	8260B	2/25/15 18:33	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*94 %*	*70-130*
Dibromofluoromethane	*98 %*	*84-123*
Toluene-d8	*98 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-3 (8-10)
Prism Sample ID: 5020423-04
Prism Work Order: 5020423
Time Collected: 02/23/15 10:55
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.3	1.1	50	*8015C	2/27/15 20:27	ANG	P5B0520
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*107 %*		*50-137*	
General Chemistry Parameters									
% Solids	**80.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/3/15 14:20**	**MJO**	**P5C0063**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0051	0.00042	1	8260B	2/25/15 18:57	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 18:57	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0051	0.00034	1	8260B	2/25/15 18:57	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0051	0.00045	1	8260B	2/25/15 18:57	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0051	0.00014	1	8260B	2/25/15 18:57	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00023	1	8260B	2/25/15 18:57	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/25/15 18:57	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/25/15 18:57	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0051	0.00065	1	8260B	2/25/15 18:57	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.00038	1	8260B	2/25/15 18:57	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.00039	1	8260B	2/25/15 18:57	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 18:57	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/25/15 18:57	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/25/15 18:57	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.00032	1	8260B	2/25/15 18:57	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.00039	1	8260B	2/25/15 18:57	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00034	1	8260B	2/25/15 18:57	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/25/15 18:57	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00020	1	8260B	2/25/15 18:57	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/25/15 18:57	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/25/15 18:57	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/25/15 18:57	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 18:57	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.051	0.0012	1	8260B	2/25/15 18:57	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0031	0.00030	1	8260B	2/25/15 18:57	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0051	0.00043	1	8260B	2/25/15 18:57	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/25/15 18:57	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/25/15 18:57	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0051	0.00058	1	8260B	2/25/15 18:57	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.010	0.00063	1	8260B	2/25/15 18:57	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 18:57	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0051	0.00027	1	8260B	2/25/15 18:57	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.010	0.00043	1	8260B	2/25/15 18:57	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0051	0.00037	1	8260B	2/25/15 18:57	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0051	0.00034	1	8260B	2/25/15 18:57	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-3 (8-10)
Prism Sample ID: 5020423-04
Prism Work Order: 5020423
Time Collected: 02/23/15 10:55
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00022	1	8260B	2/25/15 18:57	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00017	1	8260B	2/25/15 18:57	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 18:57	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0051	0.00023	1	8260B	2/25/15 18:57	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.25	0.10	1	8260B	2/25/15 18:57	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0051	0.00020	1	8260B	2/25/15 18:57	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 18:57	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/25/15 18:57	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00047	1	8260B	2/25/15 18:57	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.051	0.00046	1	8260B	2/25/15 18:57	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00046	1	8260B	2/25/15 18:57	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.051	0.00043	1	8260B	2/25/15 18:57	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/25/15 18:57	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/25/15 18:57	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/25/15 18:57	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/25/15 18:57	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/25/15 18:57	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 18:57	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 18:57	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/25/15 18:57	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.41	0.0042	1	8260B	2/25/15 18:57	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.10	0.00044	1	8260B	2/25/15 18:57	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.20	0.00036	1	8260B	2/25/15 18:57	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.41	0.00051	1	8260B	2/25/15 18:57	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0051	0.00017	1	8260B	2/25/15 18:57	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.10	0.00036	1	8260B	2/25/15 18:57	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/25/15 18:57	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/25/15 18:57	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/25/15 18:57	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00027	1	8260B	2/25/15 18:57	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0051	0.00033	1	8260B	2/25/15 18:57	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0051	0.00033	1	8260B	2/25/15 18:57	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.025	0.00070	1	8260B	2/25/15 18:57	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 18:57	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.015	0.00096	1	8260B	2/25/15 18:57	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*90 %*	*70-130*
Dibromofluoromethane	*92 %*	*84-123*
Toluene-d8	*93 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dup 1
Prism Sample ID: 5020423-05
Prism Work Order: 5020423
Time Collected: 02/23/15 11:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.1	1.1	50	*8015C	2/27/15 20:55	ANG	P5B0520
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*103 %*		*50-137*	
General Chemistry Parameters									
% Solids	**78.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/3/15 14:20**	**MJO**	**P5C0063**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0051	0.00042	1	8260B	2/25/15 19:21	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 19:21	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0051	0.00035	1	8260B	2/25/15 19:21	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0051	0.00045	1	8260B	2/25/15 19:21	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0051	0.00014	1	8260B	2/25/15 19:21	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00023	1	8260B	2/25/15 19:21	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/25/15 19:21	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/25/15 19:21	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0051	0.00065	1	8260B	2/25/15 19:21	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0051	0.00038	1	8260B	2/25/15 19:21	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.00039	1	8260B	2/25/15 19:21	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 19:21	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/25/15 19:21	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/25/15 19:21	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.00032	1	8260B	2/25/15 19:21	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0051	0.00039	1	8260B	2/25/15 19:21	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00034	1	8260B	2/25/15 19:21	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/25/15 19:21	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0051	0.00020	1	8260B	2/25/15 19:21	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/25/15 19:21	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/25/15 19:21	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/25/15 19:21	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 19:21	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.051	0.0013	1	8260B	2/25/15 19:21	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0031	0.00030	1	8260B	2/25/15 19:21	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0051	0.00043	1	8260B	2/25/15 19:21	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0051	0.00028	1	8260B	2/25/15 19:21	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/25/15 19:21	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0051	0.00058	1	8260B	2/25/15 19:21	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.010	0.00063	1	8260B	2/25/15 19:21	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/25/15 19:21	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0051	0.00027	1	8260B	2/25/15 19:21	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.010	0.00043	1	8260B	2/25/15 19:21	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0051	0.00037	1	8260B	2/25/15 19:21	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0051	0.00034	1	8260B	2/25/15 19:21	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dup 1
Prism Sample ID: 5020423-05
Prism Work Order: 5020423
Time Collected: 02/23/15 11:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00022	1	8260B	2/25/15 19:21	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00017	1	8260B	2/25/15 19:21	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 19:21	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0051	0.00023	1	8260B	2/25/15 19:21	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.26	0.10	1	8260B	2/25/15 19:21	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0051	0.00020	1	8260B	2/25/15 19:21	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 19:21	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/25/15 19:21	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00047	1	8260B	2/25/15 19:21	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.051	0.00046	1	8260B	2/25/15 19:21	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00046	1	8260B	2/25/15 19:21	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.051	0.00044	1	8260B	2/25/15 19:21	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/25/15 19:21	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/25/15 19:21	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	8260B	2/25/15 19:21	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0051	0.00026	1	8260B	2/25/15 19:21	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0051	0.00030	1	8260B	2/25/15 19:21	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0051	0.00021	1	8260B	2/25/15 19:21	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 19:21	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/25/15 19:21	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.41	0.0043	1	8260B	2/25/15 19:21	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.10	0.00044	1	8260B	2/25/15 19:21	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.20	0.00036	1	8260B	2/25/15 19:21	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.41	0.00051	1	8260B	2/25/15 19:21	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0051	0.00017	1	8260B	2/25/15 19:21	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.10	0.00036	1	8260B	2/25/15 19:21	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0051	0.00024	1	8260B	2/25/15 19:21	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0051	0.00029	1	8260B	2/25/15 19:21	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0051	0.00031	1	8260B	2/25/15 19:21	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0051	0.00027	1	8260B	2/25/15 19:21	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0051	0.00033	1	8260B	2/25/15 19:21	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0051	0.00033	1	8260B	2/25/15 19:21	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.026	0.00070	1	8260B	2/25/15 19:21	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0051	0.00025	1	8260B	2/25/15 19:21	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.015	0.00096	1	8260B	2/25/15 19:21	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*97 %*	*70-130*
Dibromofluoromethane	*98 %*	*84-123*
Toluene-d8	*98 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-4 (0-2)
Prism Sample ID: 5020423-06
Prism Work Order: 5020423
Time Collected: 02/23/15 12:05
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.4	1.1	50	*8015C	2/27/15 21:23	ANG	P5B0520
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*93 %*		*50-137*	
General Chemistry Parameters									
% Solids	**81.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/3/15 14:20**	**MJO**	**P5C0063**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0065	0.00054	1	8260B	2/25/15 19:45	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0065	0.00032	1	8260B	2/25/15 19:45	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0065	0.00044	1	8260B	2/25/15 19:45	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0065	0.00058	1	8260B	2/25/15 19:45	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0065	0.00018	1	8260B	2/25/15 19:45	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0065	0.00029	1	8260B	2/25/15 19:45	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0065	0.00036	1	8260B	2/25/15 19:45	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0065	0.00037	1	8260B	2/25/15 19:45	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0065	0.00083	1	8260B	2/25/15 19:45	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0065	0.00049	1	8260B	2/25/15 19:45	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0065	0.00050	1	8260B	2/25/15 19:45	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0065	0.00026	1	8260B	2/25/15 19:45	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0065	0.00031	1	8260B	2/25/15 19:45	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0065	0.00039	1	8260B	2/25/15 19:45	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0065	0.00040	1	8260B	2/25/15 19:45	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0065	0.00049	1	8260B	2/25/15 19:45	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0065	0.00043	1	8260B	2/25/15 19:45	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0065	0.00033	1	8260B	2/25/15 19:45	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0065	0.00026	1	8260B	2/25/15 19:45	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0065	0.00031	1	8260B	2/25/15 19:45	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0065	0.00034	1	8260B	2/25/15 19:45	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0065	0.00039	1	8260B	2/25/15 19:45	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0065	0.00031	1	8260B	2/25/15 19:45	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.065	0.0016	1	8260B	2/25/15 19:45	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0039	0.00038	1	8260B	2/25/15 19:45	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0065	0.00054	1	8260B	2/25/15 19:45	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0065	0.00036	1	8260B	2/25/15 19:45	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0065	0.00036	1	8260B	2/25/15 19:45	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0065	0.00074	1	8260B	2/25/15 19:45	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.013	0.00081	1	8260B	2/25/15 19:45	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0065	0.00032	1	8260B	2/25/15 19:45	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0065	0.00035	1	8260B	2/25/15 19:45	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.013	0.00054	1	8260B	2/25/15 19:45	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0065	0.00047	1	8260B	2/25/15 19:45	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0065	0.00044	1	8260B	2/25/15 19:45	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-4 (0-2)
Prism Sample ID: 5020423-06
Prism Work Order: 5020423
Time Collected: 02/23/15 12:05
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0065	0.00028	1	8260B	2/25/15 19:45	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0065	0.00022	1	8260B	2/25/15 19:45	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0065	0.00027	1	8260B	2/25/15 19:45	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0065	0.00030	1	8260B	2/25/15 19:45	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.33	0.13	1	8260B	2/25/15 19:45	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0065	0.00025	1	8260B	2/25/15 19:45	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0065	0.00027	1	8260B	2/25/15 19:45	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0065	0.00039	1	8260B	2/25/15 19:45	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.013	0.00060	1	8260B	2/25/15 19:45	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.065	0.00059	1	8260B	2/25/15 19:45	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.13	0.00059	1	8260B	2/25/15 19:45	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.065	0.00056	1	8260B	2/25/15 19:45	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0065	0.00037	1	8260B	2/25/15 19:45	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.013	0.00021	1	8260B	2/25/15 19:45	MSC	P5B0475
Naphthalene	**0.064**	**mg/kg dry**	**0.013**	**0.00021**	**1**	**8260B**	**2/25/15 19:45**	**MSC**	**P5B0475**
n-Butylbenzene	BRL	mg/kg dry	0.0065	0.00033	1	8260B	2/25/15 19:45	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0065	0.00039	1	8260B	2/25/15 19:45	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0065	0.00027	1	8260B	2/25/15 19:45	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0065	0.00032	1	8260B	2/25/15 19:45	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0065	0.00039	1	8260B	2/25/15 19:45	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.52	0.0054	1	8260B	2/25/15 19:45	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.13	0.00056	1	8260B	2/25/15 19:45	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.26	0.00046	1	8260B	2/25/15 19:45	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.52	0.00065	1	8260B	2/25/15 19:45	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0065	0.00022	1	8260B	2/25/15 19:45	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.13	0.00046	1	8260B	2/25/15 19:45	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0065	0.00031	1	8260B	2/25/15 19:45	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0065	0.00037	1	8260B	2/25/15 19:45	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0065	0.00039	1	8260B	2/25/15 19:45	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0065	0.00034	1	8260B	2/25/15 19:45	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0065	0.00042	1	8260B	2/25/15 19:45	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0065	0.00042	1	8260B	2/25/15 19:45	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.033	0.00089	1	8260B	2/25/15 19:45	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0065	0.00032	1	8260B	2/25/15 19:45	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.020	0.0012	1	8260B	2/25/15 19:45	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*94 %*	*70-130*
Dibromofluoromethane	*90 %*	*84-123*
Toluene-d8	*93 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-4 (8-10)
Prism Sample ID: 5020423-07
Prism Work Order: 5020423
Time Collected: 02/23/15 12:10
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.9	1.2	50	*8015C	2/27/15 21:51	ANG	P5B0520
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*107 %*		*50-137*	
General Chemistry Parameters									
% Solids	**77.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/3/15 14:20**	**MJO**	**P5C0063**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0062	0.00051	1	8260B	2/25/15 20:09	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0062	0.00030	1	8260B	2/25/15 20:09	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0062	0.00042	1	8260B	2/25/15 20:09	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0062	0.00055	1	8260B	2/25/15 20:09	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0062	0.00017	1	8260B	2/25/15 20:09	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00027	1	8260B	2/25/15 20:09	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00034	1	8260B	2/25/15 20:09	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0062	0.00035	1	8260B	2/25/15 20:09	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0062	0.00079	1	8260B	2/25/15 20:09	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0062	0.00046	1	8260B	2/25/15 20:09	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0062	0.00047	1	8260B	2/25/15 20:09	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0062	0.00025	1	8260B	2/25/15 20:09	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00029	1	8260B	2/25/15 20:09	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0062	0.00037	1	8260B	2/25/15 20:09	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0062	0.00038	1	8260B	2/25/15 20:09	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0062	0.00047	1	8260B	2/25/15 20:09	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00041	1	8260B	2/25/15 20:09	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0062	0.00031	1	8260B	2/25/15 20:09	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00024	1	8260B	2/25/15 20:09	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0062	0.00029	1	8260B	2/25/15 20:09	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0062	0.00032	1	8260B	2/25/15 20:09	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0062	0.00037	1	8260B	2/25/15 20:09	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0062	0.00030	1	8260B	2/25/15 20:09	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.062	0.0015	1	8260B	2/25/15 20:09	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0037	0.00036	1	8260B	2/25/15 20:09	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0062	0.00052	1	8260B	2/25/15 20:09	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0062	0.00034	1	8260B	2/25/15 20:09	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0062	0.00035	1	8260B	2/25/15 20:09	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0062	0.00070	1	8260B	2/25/15 20:09	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.012	0.00076	1	8260B	2/25/15 20:09	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0062	0.00031	1	8260B	2/25/15 20:09	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0062	0.00033	1	8260B	2/25/15 20:09	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.012	0.00052	1	8260B	2/25/15 20:09	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0062	0.00045	1	8260B	2/25/15 20:09	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0062	0.00042	1	8260B	2/25/15 20:09	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-4 (8-10)
Prism Sample ID: 5020423-07
Prism Work Order: 5020423
Time Collected: 02/23/15 12:10
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00026	1	8260B	2/25/15 20:09	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00021	1	8260B	2/25/15 20:09	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0062	0.00025	1	8260B	2/25/15 20:09	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0062	0.00028	1	8260B	2/25/15 20:09	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.31	0.12	1	8260B	2/25/15 20:09	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0062	0.00024	1	8260B	2/25/15 20:09	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0062	0.00025	1	8260B	2/25/15 20:09	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0062	0.00037	1	8260B	2/25/15 20:09	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00057	1	8260B	2/25/15 20:09	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.062	0.00056	1	8260B	2/25/15 20:09	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00056	1	8260B	2/25/15 20:09	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.062	0.00053	1	8260B	2/25/15 20:09	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0062	0.00035	1	8260B	2/25/15 20:09	MSC	P5B0475
Methyl-tert-Butyl Ether	**0.029**	**mg/kg dry**	**0.012**	**0.00020**	**1**	**8260B**	**2/25/15 20:09**	**MSC**	**P5B0475**
Naphthalene	BRL	mg/kg dry	0.012	0.00020	1	8260B	2/25/15 20:09	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0062	0.00032	1	8260B	2/25/15 20:09	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0062	0.00037	1	8260B	2/25/15 20:09	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0062	0.00025	1	8260B	2/25/15 20:09	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0062	0.00030	1	8260B	2/25/15 20:09	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0062	0.00037	1	8260B	2/25/15 20:09	MSC	P5B0475
tert-Amyl Alcohol	**0.027 J**	**mg/kg dry**	**0.49**	**0.0051**	**1**	**8260B**	**2/25/15 20:09**	**MSC**	**P5B0475**
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.12	0.00053	1	8260B	2/25/15 20:09	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.25	0.00043	1	8260B	2/25/15 20:09	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.49	0.00062	1	8260B	2/25/15 20:09	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0062	0.00021	1	8260B	2/25/15 20:09	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.12	0.00043	1	8260B	2/25/15 20:09	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0062	0.00029	1	8260B	2/25/15 20:09	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0062	0.00035	1	8260B	2/25/15 20:09	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00037	1	8260B	2/25/15 20:09	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00033	1	8260B	2/25/15 20:09	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0062	0.00040	1	8260B	2/25/15 20:09	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0062	0.00040	1	8260B	2/25/15 20:09	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.031	0.00085	1	8260B	2/25/15 20:09	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0062	0.00030	1	8260B	2/25/15 20:09	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.019	0.0012	1	8260B	2/25/15 20:09	MSC	P5B0475

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*68 %*	*70-130*	*SR*
Dibromofluoromethane	*70 %*	*84-123*	*SR*
Toluene-d8	*70 %*	*76-129*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Advantage TMW-5
Prism Sample ID: 5020423-08
Prism Work Order: 5020423
Time Collected: 02/23/15 13:45
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.5	1.4	1	*8015C	2/27/15 22:01	JMV	P5B0517
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*61 %*		*49-124*	
General Chemistry Parameters									
% Solids	**73.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/3/15 14:20**	**MJO**	**P5C0063**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless B2
Prism Sample ID: 5020423-09
Prism Work Order: 5020423
Time Collected: 02/23/15 15:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	0.71	1	MADEP EPH	3/5/15 17:32	KC	P5C0037
C19-C36 Aliphatics	**8.4 J**	**mg/kg dry**	**12**	**2.9**	**1**	**MADEP EPH**	**3/5/15 17:32**	**KC**	**P5C0037**
C11-C22 Aromatics	BRL	mg/kg dry	12	2.2	1	MADEP EPH	3/5/15 17:32	KC	P5C0037

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*80 %*	*40-140*
o-Terphenyl	*92 %*	*40-140*
2-Fluorobiphenyl	*99 %*	*40-140*
2-Bromonaphthalene	*90 %*	*40-140*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**80.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/3/15 14:20**	**MJO**	**P5C0063**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.41	0.064	1	8270D	3/4/15 11:33	KC	P5C0033
1,2-Dichlorobenzene	BRL	mg/kg dry	0.41	0.062	1	8270D	3/4/15 11:33	KC	P5C0033
1,3-Dichlorobenzene	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 11:33	KC	P5C0033
1,4-Dichlorobenzene	BRL	mg/kg dry	0.41	0.060	1	8270D	3/4/15 11:33	KC	P5C0033
1-Methylnaphthalene	BRL	mg/kg dry	0.41	0.079	1	8270D	3/4/15 11:33	KC	P5C0033
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.41	0.077	1	8270D	3/4/15 11:33	KC	P5C0033
2,4-Dichlorophenol	BRL	mg/kg dry	0.41	0.079	1	8270D	3/4/15 11:33	KC	P5C0033
2,4-Dimethylphenol	BRL	mg/kg dry	0.41	0.063	1	8270D	3/4/15 11:33	KC	P5C0033
2,4-Dinitrophenol	BRL	mg/kg dry	0.41	0.057	1	8270D	3/4/15 11:33	KC	P5C0033
2,4-Dinitrotoluene	BRL	mg/kg dry	0.41	0.050	1	8270D	3/4/15 11:33	KC	P5C0033
2,6-Dinitrotoluene	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 11:33	KC	P5C0033
2-Chloronaphthalene	BRL	mg/kg dry	0.41	0.059	1	8270D	3/4/15 11:33	KC	P5C0033
2-Chlorophenol	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 11:33	KC	P5C0033
2-Methylnaphthalene	BRL	mg/kg dry	0.41	0.066	1	8270D	3/4/15 11:33	KC	P5C0033
2-Methylphenol	BRL	mg/kg dry	0.41	0.052	1	8270D	3/4/15 11:33	KC	P5C0033
2-Nitrophenol	BRL	mg/kg dry	0.41	0.075	1	8270D	3/4/15 11:33	KC	P5C0033
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.41	0.081	1	8270D	3/4/15 11:33	KC	P5C0033
3/4-Methylphenol	BRL	mg/kg dry	0.41	0.050	1	8270D	3/4/15 11:33	KC	P5C0033
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.41	0.062	1	8270D	3/4/15 11:33	KC	P5C0033
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.41	0.070	1	8270D	3/4/15 11:33	KC	P5C0033
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.41	0.057	1	8270D	3/4/15 11:33	KC	P5C0033
4-Chloroaniline	BRL	mg/kg dry	0.41	0.049	1	8270D	3/4/15 11:33	KC	P5C0033
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.41	0.053	1	8270D	3/4/15 11:33	KC	P5C0033
4-Nitrophenol	BRL	mg/kg dry	0.41	0.063	1	8270D	3/4/15 11:33	KC	P5C0033
Acenaphthene	BRL	mg/kg dry	0.41	0.056	1	8270D	3/4/15 11:33	KC	P5C0033
Acenaphthylene	BRL	mg/kg dry	0.41	0.059	1	8270D	3/4/15 11:33	KC	P5C0033
Anthracene	BRL	mg/kg dry	0.41	0.066	1	8270D	3/4/15 11:33	KC	P5C0033
Azobenzene	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 11:33	KC	P5C0033
Benzo(a)anthracene	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 11:33	KC	P5C0033
Benzo(a)pyrene	BRL	mg/kg dry	0.41	0.044	1	8270D	3/4/15 11:33	KC	P5C0033

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless B2
Prism Sample ID: 5020423-09
Prism Work Order: 5020423
Time Collected: 02/23/15 15:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.41	0.048	1	8270D	3/4/15 11:33	KC	P5C0033
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.41	0.045	1	8270D	3/4/15 11:33	KC	P5C0033
Benzo(k)fluoranthene	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 11:33	KC	P5C0033
Benzoic Acid	BRL CCV	mg/kg dry	0.41	0.034	1	8270D	3/4/15 11:33	KC	P5C0033
Benzyl alcohol	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 11:33	KC	P5C0033
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.41	0.071	1	8270D	3/4/15 11:33	KC	P5C0033
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 11:33	KC	P5C0033
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.41	0.070	1	8270D	3/4/15 11:33	KC	P5C0033
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.41	0.061	1	8270D	3/4/15 11:33	KC	P5C0033
Butyl benzyl phthalate	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 11:33	KC	P5C0033
Chrysene	BRL	mg/kg dry	0.41	0.052	1	8270D	3/4/15 11:33	KC	P5C0033
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.41	0.050	1	8270D	3/4/15 11:33	KC	P5C0033
Dibenzofuran	BRL	mg/kg dry	0.41	0.062	1	8270D	3/4/15 11:33	KC	P5C0033
Diethyl phthalate	BRL	mg/kg dry	0.41	0.056	1	8270D	3/4/15 11:33	KC	P5C0033
Dimethyl phthalate	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 11:33	KC	P5C0033
Di-n-butyl phthalate	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 11:33	KC	P5C0033
Di-n-octyl phthalate	BRL	mg/kg dry	0.41	0.050	1	8270D	3/4/15 11:33	KC	P5C0033
Fluoranthene	BRL	mg/kg dry	0.41	0.052	1	8270D	3/4/15 11:33	KC	P5C0033
Fluorene	BRL	mg/kg dry	0.41	0.059	1	8270D	3/4/15 11:33	KC	P5C0033
Hexachlorobenzene	BRL	mg/kg dry	0.41	0.065	1	8270D	3/4/15 11:33	KC	P5C0033
Hexachlorobutadiene	BRL	mg/kg dry	0.41	0.074	1	8270D	3/4/15 11:33	KC	P5C0033
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.41	0.073	1	8270D	3/4/15 11:33	KC	P5C0033
Hexachloroethane	BRL	mg/kg dry	0.41	0.069	1	8270D	3/4/15 11:33	KC	P5C0033
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.41	0.047	1	8270D	3/4/15 11:33	KC	P5C0033
Isophorone	BRL	mg/kg dry	0.41	0.055	1	8270D	3/4/15 11:33	KC	P5C0033
Naphthalene	BRL	mg/kg dry	0.41	0.066	1	8270D	3/4/15 11:33	KC	P5C0033
Nitrobenzene	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 11:33	KC	P5C0033
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.41	0.065	1	8270D	3/4/15 11:33	KC	P5C0033
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.41	0.062	1	8270D	3/4/15 11:33	KC	P5C0033
Pentachlorophenol	BRL	mg/kg dry	0.41	0.048	1	8270D	3/4/15 11:33	KC	P5C0033
Phenanthrene	BRL	mg/kg dry	0.41	0.053	1	8270D	3/4/15 11:33	KC	P5C0033
Phenol	BRL	mg/kg dry	0.41	0.060	1	8270D	3/4/15 11:33	KC	P5C0033
Pyrene	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 11:33	KC	P5C0033

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*106 %*	*39-132*
2-Fluorobiphenyl	*105 %*	*44-115*
2-Fluorophenol	*105 %*	*35-115*
Nitrobenzene-d5	*96 %*	*37-122*
Phenol-d5	*96 %*	*34-121*
Terphenyl-d14	*122 %*	*54-127*

Total Metals

Chromium	**21**	**mg/kg dry**	**0.30**	**0.050**	**1**	***6010C**	**2/25/15 20:09**	**BGM**	**P5B0463**
Lead	**6.7**	**mg/kg dry**	**0.30**	**0.046**	**1**	***6010C**	**2/25/15 20:09**	**BGM**	**P5B0463**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless B2
Prism Sample ID: 5020423-09
Prism Work Order: 5020423
Time Collected: 02/23/15 15:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00039	1	8260B	2/25/15 20:33	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/25/15 20:33	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00032	1	8260B	2/25/15 20:33	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0048	0.00042	1	8260B	2/25/15 20:33	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0048	0.00013	1	8260B	2/25/15 20:33	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00021	1	8260B	2/25/15 20:33	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00026	1	8260B	2/25/15 20:33	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00027	1	8260B	2/25/15 20:33	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0048	0.00061	1	8260B	2/25/15 20:33	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00036	1	8260B	2/25/15 20:33	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00037	1	8260B	2/25/15 20:33	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0048	0.00019	1	8260B	2/25/15 20:33	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00022	1	8260B	2/25/15 20:33	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0048	0.00028	1	8260B	2/25/15 20:33	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00030	1	8260B	2/25/15 20:33	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00036	1	8260B	2/25/15 20:33	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00032	1	8260B	2/25/15 20:33	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0048	0.00024	1	8260B	2/25/15 20:33	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00019	1	8260B	2/25/15 20:33	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/25/15 20:33	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	2/25/15 20:33	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00028	1	8260B	2/25/15 20:33	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/25/15 20:33	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.048	0.0012	1	8260B	2/25/15 20:33	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0029	0.00028	1	8260B	2/25/15 20:33	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0048	0.00040	1	8260B	2/25/15 20:33	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0048	0.00026	1	8260B	2/25/15 20:33	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0048	0.00027	1	8260B	2/25/15 20:33	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0048	0.00054	1	8260B	2/25/15 20:33	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.0096	0.00059	1	8260B	2/25/15 20:33	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0048	0.00024	1	8260B	2/25/15 20:33	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	2/25/15 20:33	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.0096	0.00040	1	8260B	2/25/15 20:33	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0048	0.00035	1	8260B	2/25/15 20:33	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0048	0.00032	1	8260B	2/25/15 20:33	MSC	P5B0475
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00020	1	8260B	2/25/15 20:33	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	2/25/15 20:33	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0048	0.00020	1	8260B	2/25/15 20:33	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0048	0.00022	1	8260B	2/25/15 20:33	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.24	0.096	1	8260B	2/25/15 20:33	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0048	0.00018	1	8260B	2/25/15 20:33	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0048	0.00019	1	8260B	2/25/15 20:33	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Payless B2
Prism Sample ID: 5020423-09
Prism Work Order: 5020423
Time Collected: 02/23/15 15:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0048	0.00028	1	8260B	2/25/15 20:33	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.0096	0.00044	1	8260B	2/25/15 20:33	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.048	0.00043	1	8260B	2/25/15 20:33	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.096	0.00043	1	8260B	2/25/15 20:33	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.048	0.00041	1	8260B	2/25/15 20:33	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0048	0.00027	1	8260B	2/25/15 20:33	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0096	0.00015	1	8260B	2/25/15 20:33	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.0096	0.00015	1	8260B	2/25/15 20:33	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0048	0.00024	1	8260B	2/25/15 20:33	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0048	0.00028	1	8260B	2/25/15 20:33	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0048	0.00020	1	8260B	2/25/15 20:33	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/25/15 20:33	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	2/25/15 20:33	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.38	0.0040	1	8260B	2/25/15 20:33	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.096	0.00041	1	8260B	2/25/15 20:33	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.19	0.00034	1	8260B	2/25/15 20:33	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.38	0.00048	1	8260B	2/25/15 20:33	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	2/25/15 20:33	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.096	0.00034	1	8260B	2/25/15 20:33	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/25/15 20:33	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0048	0.00027	1	8260B	2/25/15 20:33	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	2/25/15 20:33	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	2/25/15 20:33	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0048	0.00031	1	8260B	2/25/15 20:33	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0048	0.00031	1	8260B	2/25/15 20:33	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.024	0.00065	1	8260B	2/25/15 20:33	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0048	0.00023	1	8260B	2/25/15 20:33	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.014	0.00090	1	8260B	2/25/15 20:33	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*70-130*
Dibromofluoromethane	*106 %*	*84-123*
Toluene-d8	*110 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.5	0.17	100	MADEP VPH	3/2/15 19:43	ANG	P5C0018
C9-C12 Aliphatics	BRL	mg/kg dry	4.5	0.41	100	MADEP VPH	3/2/15 19:43	ANG	P5C0018
C9-C10 Aromatics	BRL	mg/kg dry	4.5	0.039	100	MADEP VPH	3/2/15 19:43	ANG	P5C0018

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*116 %*	*70-130*
2,5-Dibromotoluene (FID)	*120 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-1
Prism Sample ID: 5020423-10
Prism Work Order: 5020423
Time Collected: 02/23/15 15:35
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	7.6	1.6	50	*8015C	2/27/15 23:45	ANG	P5B0520
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*95 %*		*50-137*	
General Chemistry Parameters									
% Solids	**62.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/3/15 14:20**	**MJO**	**P5C0063**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0076	0.00063	1	8260B	2/25/15 20:57	MSC	P5B0475
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0076	0.00037	1	8260B	2/25/15 20:57	MSC	P5B0475
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0076	0.00051	1	8260B	2/25/15 20:57	MSC	P5B0475
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0076	0.00067	1	8260B	2/25/15 20:57	MSC	P5B0475
1,1-Dichloroethane	BRL	mg/kg dry	0.0076	0.00021	1	8260B	2/25/15 20:57	MSC	P5B0475
1,1-Dichloroethylene	BRL	mg/kg dry	0.0076	0.00034	1	8260B	2/25/15 20:57	MSC	P5B0475
1,1-Dichloropropylene	BRL	mg/kg dry	0.0076	0.00042	1	8260B	2/25/15 20:57	MSC	P5B0475
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0076	0.00043	1	8260B	2/25/15 20:57	MSC	P5B0475
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0076	0.00097	1	8260B	2/25/15 20:57	MSC	P5B0475
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0076	0.00057	1	8260B	2/25/15 20:57	MSC	P5B0475
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0076	0.00058	1	8260B	2/25/15 20:57	MSC	P5B0475
1,2-Dibromoethane	BRL	mg/kg dry	0.0076	0.00031	1	8260B	2/25/15 20:57	MSC	P5B0475
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0076	0.00036	1	8260B	2/25/15 20:57	MSC	P5B0475
1,2-Dichloroethane	BRL	mg/kg dry	0.0076	0.00045	1	8260B	2/25/15 20:57	MSC	P5B0475
1,2-Dichloropropane	BRL	mg/kg dry	0.0076	0.00047	1	8260B	2/25/15 20:57	MSC	P5B0475
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0076	0.00058	1	8260B	2/25/15 20:57	MSC	P5B0475
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0076	0.00050	1	8260B	2/25/15 20:57	MSC	P5B0475
1,3-Dichloropropane	BRL	mg/kg dry	0.0076	0.00038	1	8260B	2/25/15 20:57	MSC	P5B0475
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0076	0.00030	1	8260B	2/25/15 20:57	MSC	P5B0475
2,2-Dichloropropane	BRL	mg/kg dry	0.0076	0.00036	1	8260B	2/25/15 20:57	MSC	P5B0475
2-Chlorotoluene	BRL	mg/kg dry	0.0076	0.00039	1	8260B	2/25/15 20:57	MSC	P5B0475
4-Chlorotoluene	BRL	mg/kg dry	0.0076	0.00045	1	8260B	2/25/15 20:57	MSC	P5B0475
4-Isopropyltoluene	BRL	mg/kg dry	0.0076	0.00037	1	8260B	2/25/15 20:57	MSC	P5B0475
Acetone	BRL	mg/kg dry	0.076	0.0019	1	8260B	2/25/15 20:57	MSC	P5B0475
Benzene	BRL	mg/kg dry	0.0046	0.00044	1	8260B	2/25/15 20:57	MSC	P5B0475
Bromobenzene	BRL	mg/kg dry	0.0076	0.00064	1	8260B	2/25/15 20:57	MSC	P5B0475
Bromochloromethane	BRL	mg/kg dry	0.0076	0.00042	1	8260B	2/25/15 20:57	MSC	P5B0475
Bromodichloromethane	BRL	mg/kg dry	0.0076	0.00042	1	8260B	2/25/15 20:57	MSC	P5B0475
Bromoform	BRL	mg/kg dry	0.0076	0.00086	1	8260B	2/25/15 20:57	MSC	P5B0475
Bromomethane	BRL	mg/kg dry	0.015	0.00094	1	8260B	2/25/15 20:57	MSC	P5B0475
Carbon Tetrachloride	BRL	mg/kg dry	0.0076	0.00038	1	8260B	2/25/15 20:57	MSC	P5B0475
Chlorobenzene	BRL	mg/kg dry	0.0076	0.00040	1	8260B	2/25/15 20:57	MSC	P5B0475
Chloroethane	BRL	mg/kg dry	0.015	0.00064	1	8260B	2/25/15 20:57	MSC	P5B0475
Chloroform	BRL	mg/kg dry	0.0076	0.00055	1	8260B	2/25/15 20:57	MSC	P5B0475
Chloromethane	BRL	mg/kg dry	0.0076	0.00051	1	8260B	2/25/15 20:57	MSC	P5B0475

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-1
Prism Sample ID: 5020423-10
Prism Work Order: 5020423
Time Collected: 02/23/15 15:35
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0076	0.00032	1	8260B	2/25/15 20:57	MSC	P5B0475
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0076	0.00026	1	8260B	2/25/15 20:57	MSC	P5B0475
Dibromochloromethane	BRL	mg/kg dry	0.0076	0.00031	1	8260B	2/25/15 20:57	MSC	P5B0475
Dichlorodifluoromethane	BRL	mg/kg dry	0.0076	0.00035	1	8260B	2/25/15 20:57	MSC	P5B0475
Ethanol	BRL	mg/kg dry	0.38	0.15	1	8260B	2/25/15 20:57	MSC	P5B0475
Ethylbenzene	BRL	mg/kg dry	0.0076	0.00029	1	8260B	2/25/15 20:57	MSC	P5B0475
Isopropyl Ether	BRL	mg/kg dry	0.0076	0.00031	1	8260B	2/25/15 20:57	MSC	P5B0475
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0076	0.00045	1	8260B	2/25/15 20:57	MSC	P5B0475
m,p-Xylenes	BRL	mg/kg dry	0.015	0.00070	1	8260B	2/25/15 20:57	MSC	P5B0475
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.076	0.00069	1	8260B	2/25/15 20:57	MSC	P5B0475
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.15	0.00069	1	8260B	2/25/15 20:57	MSC	P5B0475
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.076	0.00065	1	8260B	2/25/15 20:57	MSC	P5B0475
Methylene Chloride	BRL	mg/kg dry	0.0076	0.00043	1	8260B	2/25/15 20:57	MSC	P5B0475
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.015	0.00024	1	8260B	2/25/15 20:57	MSC	P5B0475
Naphthalene	BRL	mg/kg dry	0.015	0.00024	1	8260B	2/25/15 20:57	MSC	P5B0475
n-Butylbenzene	BRL	mg/kg dry	0.0076	0.00039	1	8260B	2/25/15 20:57	MSC	P5B0475
n-Propylbenzene	BRL	mg/kg dry	0.0076	0.00045	1	8260B	2/25/15 20:57	MSC	P5B0475
o-Xylene	BRL	mg/kg dry	0.0076	0.00031	1	8260B	2/25/15 20:57	MSC	P5B0475
sec-Butylbenzene	BRL	mg/kg dry	0.0076	0.00037	1	8260B	2/25/15 20:57	MSC	P5B0475
Styrene	BRL	mg/kg dry	0.0076	0.00046	1	8260B	2/25/15 20:57	MSC	P5B0475
tert-Amyl Alcohol	BRL	mg/kg dry	0.61	0.0063	1	8260B	2/25/15 20:57	MSC	P5B0475
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.15	0.00065	1	8260B	2/25/15 20:57	MSC	P5B0475
tert-Butyl Alcohol	BRL	mg/kg dry	0.30	0.00053	1	8260B	2/25/15 20:57	MSC	P5B0475
tert-Butyl Formate	BRL	mg/kg dry	0.61	0.00076	1	8260B	2/25/15 20:57	MSC	P5B0475
tert-Butylbenzene	BRL	mg/kg dry	0.0076	0.00026	1	8260B	2/25/15 20:57	MSC	P5B0475
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.15	0.00053	1	8260B	2/25/15 20:57	MSC	P5B0475
Tetrachloroethylene	BRL	mg/kg dry	0.0076	0.00036	1	8260B	2/25/15 20:57	MSC	P5B0475
Toluene	BRL	mg/kg dry	0.0076	0.00044	1	8260B	2/25/15 20:57	MSC	P5B0475
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0076	0.00046	1	8260B	2/25/15 20:57	MSC	P5B0475
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0076	0.00040	1	8260B	2/25/15 20:57	MSC	P5B0475
Trichloroethylene	BRL	mg/kg dry	0.0076	0.00049	1	8260B	2/25/15 20:57	MSC	P5B0475
Trichlorofluoromethane	BRL	mg/kg dry	0.0076	0.00049	1	8260B	2/25/15 20:57	MSC	P5B0475
Vinyl acetate	BRL	mg/kg dry	0.038	0.0010	1	8260B	2/25/15 20:57	MSC	P5B0475
Vinyl chloride	BRL	mg/kg dry	0.0076	0.00037	1	8260B	2/25/15 20:57	MSC	P5B0475
Xylenes, total	BRL	mg/kg dry	0.023	0.0014	1	8260B	2/25/15 20:57	MSC	P5B0475

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*89 %*	*70-130*
Dibromofluoromethane	*90 %*	*84-123*
Toluene-d8	*92 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020423-11
Prism Work Order: 5020423
Time Collected: 02/23/15 00:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	2/26/15 0:23	VHL	P5B0496
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	2/26/15 0:23	VHL	P5B0496
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	2/26/15 0:23	VHL	P5B0496
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/26/15 0:23	VHL	P5B0496
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	2/26/15 0:23	VHL	P5B0496
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	2/26/15 0:23	VHL	P5B0496
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	2/26/15 0:23	VHL	P5B0496
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	2/26/15 0:23	VHL	P5B0496
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	2/26/15 0:23	VHL	P5B0496
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	2/26/15 0:23	VHL	P5B0496
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	2/26/15 0:23	VHL	P5B0496
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	2/26/15 0:23	VHL	P5B0496
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	2/26/15 0:23	VHL	P5B0496
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	2/26/15 0:23	VHL	P5B0496
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	2/26/15 0:23	VHL	P5B0496
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	2/26/15 0:23	VHL	P5B0496
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	2/26/15 0:23	VHL	P5B0496
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	2/26/15 0:23	VHL	P5B0496
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	2/26/15 0:23	VHL	P5B0496
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	2/26/15 0:23	VHL	P5B0496
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	2/26/15 0:23	VHL	P5B0496
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.37	1	8260B	2/26/15 0:23	VHL	P5B0496
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	2/26/15 0:23	VHL	P5B0496
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	2/26/15 0:23	VHL	P5B0496
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	2/26/15 0:23	VHL	P5B0496
Acetone	BRL	ug/L	5.0	0.31	1	8260B	2/26/15 0:23	VHL	P5B0496
Acrolein	BRL	ug/L	20	0.20	1	8260B	2/26/15 0:23	VHL	P5B0496
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	2/26/15 0:23	VHL	P5B0496
Benzene	BRL	ug/L	0.50	0.048	1	8260B	2/26/15 0:23	VHL	P5B0496
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	2/26/15 0:23	VHL	P5B0496
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	2/26/15 0:23	VHL	P5B0496
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	2/26/15 0:23	VHL	P5B0496
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	2/26/15 0:23	VHL	P5B0496
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	2/26/15 0:23	VHL	P5B0496
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	2/26/15 0:23	VHL	P5B0496
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	2/26/15 0:23	VHL	P5B0496
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	2/26/15 0:23	VHL	P5B0496
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	2/26/15 0:23	VHL	P5B0496
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	2/26/15 0:23	VHL	P5B0496
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	2/26/15 0:23	VHL	P5B0496
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	2/26/15 0:23	VHL	P5B0496
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	2/26/15 0:23	VHL	P5B0496

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020423-11
Prism Work Order: 5020423
Time Collected: 02/23/15 00:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	2/26/15 0:23	VHL	P5B0496
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	2/26/15 0:23	VHL	P5B0496
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	2/26/15 0:23	VHL	P5B0496
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	2/26/15 0:23	VHL	P5B0496
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	2/26/15 0:23	VHL	P5B0496
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	2/26/15 0:23	VHL	P5B0496
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	2/26/15 0:23	VHL	P5B0496
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	2/26/15 0:23	VHL	P5B0496
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	2/26/15 0:23	VHL	P5B0496
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	2/26/15 0:23	VHL	P5B0496
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	2/26/15 0:23	VHL	P5B0496
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	2/26/15 0:23	VHL	P5B0496
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	2/26/15 0:23	VHL	P5B0496
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	2/26/15 0:23	VHL	P5B0496
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	2/26/15 0:23	VHL	P5B0496
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	2/26/15 0:23	VHL	P5B0496
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	2/26/15 0:23	VHL	P5B0496
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	2/26/15 0:23	VHL	P5B0496
Styrene	BRL	ug/L	0.50	0.047	1	8260B	2/26/15 0:23	VHL	P5B0496
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	2/26/15 0:23	VHL	P5B0496
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	2/26/15 0:23	VHL	P5B0496
Toluene	BRL	ug/L	0.50	0.044	1	8260B	2/26/15 0:23	VHL	P5B0496
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	2/26/15 0:23	VHL	P5B0496
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	2/26/15 0:23	VHL	P5B0496
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	2/26/15 0:23	VHL	P5B0496
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	2/26/15 0:23	VHL	P5B0496
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	2/26/15 0:23	VHL	P5B0496
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	2/26/15 0:23	VHL	P5B0496

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*110 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
Blank (P5B0475-BLK1)				Prepared & Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethanol	BRL	0.25	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
Blank (P5B0475-BLK1)			Prepared & Analyzed: 02/25/15							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Amyl Alcohol	BRL	0.40	mg/kg wet							
tert-Amyl Methyl Ether	BRL	0.10	mg/kg wet							
tert-Butyl Alcohol	BRL	0.20	mg/kg wet							
tert-Butyl Formate	BRL	0.40	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
tert-Butyl Ethyl Ether	BRL	0.10	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0462*		*mg/kg wet*	*0.05000*		*92*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0474*		*mg/kg wet*	*0.05000*		*95*	*84-123*			
Surrogate: Toluene-d8	*0.0466*		*mg/kg wet*	*0.05000*		*93*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
LCS (P5B0475-BS1)				Prepared & Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	0.0537	0.0050	mg/kg wet	0.05000		107	72-115			
1,1,1-Trichloroethane	0.0462	0.0050	mg/kg wet	0.05000		92	67-131			
1,1,2,2-Tetrachloroethane	0.0586	0.0050	mg/kg wet	0.05000		117	56-126			
1,1,2-Trichloroethane	0.0554	0.0050	mg/kg wet	0.05000		111	70-133			
1,1-Dichloroethane	0.0519	0.0050	mg/kg wet	0.05000		104	74-127			
1,1-Dichloroethylene	0.0491	0.0050	mg/kg wet	0.05000		98	67-149			
1,1-Dichloropropylene	0.0550	0.0050	mg/kg wet	0.05000		110	71-130			
1,2,3-Trichlorobenzene	0.0528	0.0050	mg/kg wet	0.05000		106	68-130			
1,2,3-Trichloropropane	0.0512	0.0050	mg/kg wet	0.05000		102	60-137			
1,2,4-Trichlorobenzene	0.0519	0.0050	mg/kg wet	0.05000		104	66-125			
1,2,4-Trimethylbenzene	0.0540	0.0050	mg/kg wet	0.05000		108	69-129			
1,2-Dibromoethane	0.0559	0.0050	mg/kg wet	0.05000		112	70-132			
1,2-Dichlorobenzene	0.0550	0.0050	mg/kg wet	0.05000		110	72-123			
1,2-Dichloroethane	0.0442	0.0050	mg/kg wet	0.05000		88	68-128			
1,2-Dichloropropane	0.0572	0.0050	mg/kg wet	0.05000		114	73-130			
1,3,5-Trimethylbenzene	0.0543	0.0050	mg/kg wet	0.05000		109	69-128			
1,3-Dichlorobenzene	0.0543	0.0050	mg/kg wet	0.05000		109	71-120			
1,3-Dichloropropane	0.0540	0.0050	mg/kg wet	0.05000		108	75-124			
1,4-Dichlorobenzene	0.0545	0.0050	mg/kg wet	0.05000		109	71-123			
2,2-Dichloropropane	0.0466	0.0050	mg/kg wet	0.05000		93	50-142			
2-Chlorotoluene	0.0526	0.0050	mg/kg wet	0.05000		105	67-124			
4-Chlorotoluene	0.0533	0.0050	mg/kg wet	0.05000		107	71-126			
4-Isopropyltoluene	0.0532	0.0050	mg/kg wet	0.05000		106	68-129			
Acetone	0.0970	0.050	mg/kg wet	0.1000		97	29-198			
Benzene	0.0585	0.0030	mg/kg wet	0.05000		117	74-127			
Bromobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	73-125			
Bromochloromethane	0.0554	0.0050	mg/kg wet	0.05000		111	72-134			
Bromodichloromethane	0.0468	0.0050	mg/kg wet	0.05000		94	75-122			
Bromoform	0.0487	0.0050	mg/kg wet	0.05000		97	66-135			
Bromomethane	0.0429	0.010	mg/kg wet	0.05000		86	20-180			
Carbon Tetrachloride	0.0480	0.0050	mg/kg wet	0.05000		96	64-143			
Chlorobenzene	0.0554	0.0050	mg/kg wet	0.05000		111	74-118			
Chloroethane	0.0572	0.010	mg/kg wet	0.05000		114	33-149			
Chloroform	0.0465	0.0050	mg/kg wet	0.05000		93	73-127			
Chloromethane	0.0634	0.0050	mg/kg wet	0.05000		127	45-143			
cis-1,2-Dichloroethylene	0.0546	0.0050	mg/kg wet	0.05000		109	76-134			
cis-1,3-Dichloropropylene	0.0552	0.0050	mg/kg wet	0.05000		110	71-125			
Dibromochloromethane	0.0491	0.0050	mg/kg wet	0.05000		98	73-122			
Dichlorodifluoromethane	0.0573	0.0050	mg/kg wet	0.05000		115	26-146			
Ethanol	1.19	0.25	mg/kg wet	1.250		95	70-130			
Ethylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	74-128			
Isopropyl Ether	0.0478	0.0050	mg/kg wet	0.05000		96	59-159			
Isopropylbenzene (Cumene)	0.0558	0.0050	mg/kg wet	0.05000		112	68-126			
m,p-Xylenes	0.106	0.010	mg/kg wet	0.1000		106	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0514	0.050	mg/kg wet	0.05000		103	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0510	0.10	mg/kg wet	0.05000		102	63-149			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
LCS (P5B0475-BS1)				Prepared & Analyzed: 02/25/15						
Methyl Isobutyl Ketone	0.0503	0.050	mg/kg wet	0.05000		101	57-162			
Methylene Chloride	0.0508	0.0050	mg/kg wet	0.05000		102	74-129			
Methyl-tert-Butyl Ether	0.0528	0.010	mg/kg wet	0.05000		106	70-130			
Naphthalene	0.0538	0.010	mg/kg wet	0.05000		108	57-157			
n-Butylbenzene	0.0530	0.0050	mg/kg wet	0.05000		106	65-135			
n-Propylbenzene	0.0543	0.0050	mg/kg wet	0.05000		109	67-130			
o-Xylene	0.0526	0.0050	mg/kg wet	0.05000		105	74-126			
sec-Butylbenzene	0.0545	0.0050	mg/kg wet	0.05000		109	66-131			
Styrene	0.0587	0.0050	mg/kg wet	0.05000		117	77-121			
tert-Amyl Alcohol	0.0530	0.40	mg/kg wet	0.05000		106	70-130			J
tert-Amyl Methyl Ether	0.112	0.10	mg/kg wet	0.1000		112	70-130			
tert-Butyl Alcohol	0.109	0.20	mg/kg wet	0.1000		109	70-130			J
tert-Butyl Formate	0.108	0.40	mg/kg wet	0.1000		108	70-130			J
tert-Butylbenzene	0.0538	0.0050	mg/kg wet	0.05000		108	67-132			
tert-Butyl Ethyl Ether	0.109	0.10	mg/kg wet	0.1000		109	70-130			
Tetrachloroethylene	0.0554	0.0050	mg/kg wet	0.05000		111	68-130			
Toluene	0.0572	0.0050	mg/kg wet	0.05000		114	71-129			
trans-1,2-Dichloroethylene	0.0524	0.0050	mg/kg wet	0.05000		105	73-132			
trans-1,3-Dichloropropylene	0.0534	0.0050	mg/kg wet	0.05000		107	68-123			
Trichloroethylene	0.0546	0.0050	mg/kg wet	0.05000		109	75-133			
Trichlorofluoromethane	0.0518	0.0050	mg/kg wet	0.05000		104	44-146			
Vinyl acetate	0.0624	0.025	mg/kg wet	0.05000		125	85-161			
Vinyl chloride	0.0602	0.0050	mg/kg wet	0.05000		120	48-147			
Xylenes, total	0.158	0.015	mg/kg wet	0.1500		105	74-126			
Surrogate: 4-Bromofluorobenzene	*0.0476*		*mg/kg wet*	*0.05000*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0494*		*mg/kg wet*	*0.05000*		*99*	*84-123*			
Surrogate: Toluene-d8	*0.0496*		*mg/kg wet*	*0.05000*		*99*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
LCS Dup (P5B0475-BSD1)				Prepared & Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	0.0497	0.0050	mg/kg wet	0.05000		99	72-115	8	20	
1,1,1-Trichloroethane	0.0424	0.0050	mg/kg wet	0.05000		85	67-131	9	20	
1,1,2,2-Tetrachloroethane	0.0568	0.0050	mg/kg wet	0.05000		114	56-126	3	20	
1,1,2-Trichloroethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-133	6	20	
1,1-Dichloroethane	0.0484	0.0050	mg/kg wet	0.05000		97	74-127	7	20	
1,1-Dichloroethylene	0.0440	0.0050	mg/kg wet	0.05000		88	67-149	11	20	
1,1-Dichloropropylene	0.0511	0.0050	mg/kg wet	0.05000		102	71-130	7	20	
1,2,3-Trichlorobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	68-130	4	20	
1,2,3-Trichloropropane	0.0497	0.0050	mg/kg wet	0.05000		99	60-137	3	20	
1,2,4-Trichlorobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	66-125	5	20	
1,2,4-Trimethylbenzene	0.0512	0.0050	mg/kg wet	0.05000		102	69-129	5	20	
1,2-Dibromoethane	0.0537	0.0050	mg/kg wet	0.05000		107	70-132	4	20	
1,2-Dichlorobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	72-123	4	20	
1,2-Dichloroethane	0.0419	0.0050	mg/kg wet	0.05000		84	68-128	5	20	
1,2-Dichloropropane	0.0538	0.0050	mg/kg wet	0.05000		108	73-130	6	20	
1,3,5-Trimethylbenzene	0.0509	0.0050	mg/kg wet	0.05000		102	69-128	6	20	
1,3-Dichlorobenzene	0.0513	0.0050	mg/kg wet	0.05000		103	71-120	6	20	
1,3-Dichloropropane	0.0515	0.0050	mg/kg wet	0.05000		103	75-124	5	20	
1,4-Dichlorobenzene	0.0520	0.0050	mg/kg wet	0.05000		104	71-123	5	20	
2,2-Dichloropropane	0.0419	0.0050	mg/kg wet	0.05000		84	50-142	11	20	
2-Chlorotoluene	0.0496	0.0050	mg/kg wet	0.05000		99	67-124	6	20	
4-Chlorotoluene	0.0507	0.0050	mg/kg wet	0.05000		101	71-126	5	20	
4-Isopropyltoluene	0.0500	0.0050	mg/kg wet	0.05000		100	68-129	6	20	
Acetone	0.0900	0.050	mg/kg wet	0.1000		90	29-198	7	20	
Benzene	0.0545	0.0030	mg/kg wet	0.05000		109	74-127	7	20	
Bromobenzene	0.0508	0.0050	mg/kg wet	0.05000		102	73-125	5	20	
Bromochloromethane	0.0513	0.0050	mg/kg wet	0.05000		103	72-134	8	20	
Bromodichloromethane	0.0434	0.0050	mg/kg wet	0.05000		87	75-122	8	20	
Bromoform	0.0468	0.0050	mg/kg wet	0.05000		94	66-135	4	20	
Bromomethane	0.0365	0.010	mg/kg wet	0.05000		73	20-180	16	20	
Carbon Tetrachloride	0.0435	0.0050	mg/kg wet	0.05000		87	64-143	10	20	
Chlorobenzene	0.0517	0.0050	mg/kg wet	0.05000		103	74-118	7	20	
Chloroethane	0.0476	0.010	mg/kg wet	0.05000		95	33-149	18	20	
Chloroform	0.0435	0.0050	mg/kg wet	0.05000		87	73-127	7	20	
Chloromethane	0.0584	0.0050	mg/kg wet	0.05000		117	45-143	8	20	
cis-1,2-Dichloroethylene	0.0509	0.0050	mg/kg wet	0.05000		102	76-134	7	20	
cis-1,3-Dichloropropylene	0.0514	0.0050	mg/kg wet	0.05000		103	71-125	7	20	
Dibromochloromethane	0.0467	0.0050	mg/kg wet	0.05000		93	73-122	5	20	
Dichlorodifluoromethane	0.0524	0.0050	mg/kg wet	0.05000		105	26-146	9	20	
Ethanol	1.19	0.25	mg/kg wet	1.250		95	70-130	0.002	20	
Ethylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	74-128	6	20	
Isopropyl Ether	0.0454	0.0050	mg/kg wet	0.05000		91	59-159	5	20	
Isopropylbenzene (Cumene)	0.0526	0.0050	mg/kg wet	0.05000		105	68-126	6	20	
m,p-Xylenes	0.0983	0.010	mg/kg wet	0.1000		98	75-124	7	20	
Methyl Butyl Ketone (2-Hexanone)	0.0506	0.050	mg/kg wet	0.05000		101	61-157	2	20	
Methyl Ethyl Ketone (2-Butanone)	0.0493	0.10	mg/kg wet	0.05000		99	63-149	3	20	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
LCS Dup (P5B0475-BSD1)			Prepared & Analyzed: 02/25/15							
Methyl Isobutyl Ketone	0.0490	0.050	mg/kg wet	0.05000		98	57-162	3	20	J
Methylene Chloride	0.0472	0.0050	mg/kg wet	0.05000		94	74-129	7	20	
Methyl-tert-Butyl Ether	0.0502	0.010	mg/kg wet	0.05000		100	70-130	5	20	
Naphthalene	0.0525	0.010	mg/kg wet	0.05000		105	57-157	3	20	
n-Butylbenzene	0.0499	0.0050	mg/kg wet	0.05000		100	65-135	6	20	
n-Propylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	67-130	6	20	
o-Xylene	0.0493	0.0050	mg/kg wet	0.05000		99	74-126	7	20	
sec-Butylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	66-131	5	20	
Styrene	0.0556	0.0050	mg/kg wet	0.05000		111	77-121	5	20	
tert-Amyl Alcohol	0.0494	0.40	mg/kg wet	0.05000		99	70-130	7	20	J
tert-Amyl Methyl Ether	0.106	0.10	mg/kg wet	0.1000		106	70-130	6	20	
tert-Butyl Alcohol	0.103	0.20	mg/kg wet	0.1000		103	70-130	5	20	J
tert-Butyl Formate	0.101	0.40	mg/kg wet	0.1000		101	70-130	6	20	J
tert-Butylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	67-132	6	20	
tert-Butyl Ethyl Ether	0.103	0.10	mg/kg wet	0.1000		103	70-130	5	20	
Tetrachloroethylene	0.0513	0.0050	mg/kg wet	0.05000		103	68-130	8	20	
Toluene	0.0529	0.0050	mg/kg wet	0.05000		106	71-129	8	20	
trans-1,2-Dichloroethylene	0.0481	0.0050	mg/kg wet	0.05000		96	73-132	9	20	
trans-1,3-Dichloropropylene	0.0504	0.0050	mg/kg wet	0.05000		101	68-123	6	20	
Trichloroethylene	0.0506	0.0050	mg/kg wet	0.05000		101	75-133	7	20	
Trichlorofluoromethane	0.0469	0.0050	mg/kg wet	0.05000		94	44-146	10	20	
Vinyl acetate	0.0583	0.025	mg/kg wet	0.05000		117	85-161	7	20	
Vinyl chloride	0.0534	0.0050	mg/kg wet	0.05000		107	48-147	12	20	
Xylenes, total	0.148	0.015	mg/kg wet	0.1500		98	74-126	7	20	
Surrogate: 4-Bromofluorobenzene	*0.0435*		*mg/kg wet*	*0.05000*		*87*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0448*		*mg/kg wet*	*0.05000*		*90*	*84-123*			
Surrogate: Toluene-d8	*0.0446*		*mg/kg wet*	*0.05000*		*89*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
Matrix Spike (P5B0475-MS1)		**Source: 5020423-03**		Prepared & Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	0.0569	0.0058	mg/kg dry	0.05791	BRL	98	60-120			
1,1,1-Trichloroethane	0.0535	0.0058	mg/kg dry	0.05791	BRL	92	52-139			
1,1,2,2-Tetrachloroethane	0.0599	0.0058	mg/kg dry	0.05791	BRL	103	39-135			
1,1,2-Trichloroethane	0.0592	0.0058	mg/kg dry	0.05791	BRL	102	44-140			
1,1-Dichloroethane	0.0603	0.0058	mg/kg dry	0.05791	BRL	104	59-137			
1,1-Dichloroethylene	0.0584	0.0058	mg/kg dry	0.05791	BRL	101	54-162			
1,1-Dichloropropylene	0.0647	0.0058	mg/kg dry	0.05791	BRL	112	55-137			
1,2,3-Trichlorobenzene	0.0436	0.0058	mg/kg dry	0.05791	BRL	75	34-120			
1,2,3-Trichloropropane	0.0535	0.0058	mg/kg dry	0.05791	BRL	92	45-139			
1,2,4-Trichlorobenzene	0.0442	0.0058	mg/kg dry	0.05791	BRL	76	35-116			
1,2,4-Trimethylbenzene	0.0584	0.0058	mg/kg dry	0.05791	BRL	101	38-142			
1,2-Dibromoethane	0.0596	0.0058	mg/kg dry	0.05791	BRL	103	49-132			
1,2-Dichlorobenzene	0.0566	0.0058	mg/kg dry	0.05791	BRL	98	42-130			
1,2-Dichloroethane	0.0480	0.0058	mg/kg dry	0.05791	BRL	83	51-131			
1,2-Dichloropropane	0.0642	0.0058	mg/kg dry	0.05791	BRL	111	55-138			
1,3,5-Trimethylbenzene	0.0582	0.0058	mg/kg dry	0.05791	BRL	101	44-140			
1,3-Dichlorobenzene	0.0567	0.0058	mg/kg dry	0.05791	BRL	98	41-129			
1,3-Dichloropropane	0.0579	0.0058	mg/kg dry	0.05791	BRL	100	53-129			
1,4-Dichlorobenzene	0.0568	0.0058	mg/kg dry	0.05791	BRL	98	44-134			
2,2-Dichloropropane	0.0517	0.0058	mg/kg dry	0.05791	BRL	89	30-147			
2-Chlorotoluene	0.0575	0.0058	mg/kg dry	0.05791	BRL	99	46-132			
4-Chlorotoluene	0.0574	0.0058	mg/kg dry	0.05791	BRL	99	44-135			
4-Isopropyltoluene	0.0551	0.0058	mg/kg dry	0.05791	BRL	95	32-144			
Acetone	0.170	0.058	mg/kg dry	0.1158	BRL	147	34-143			
Benzene	0.0688	0.0035	mg/kg dry	0.05791	BRL	119	60-135			
Bromobenzene	0.0582	0.0058	mg/kg dry	0.05791	BRL	101	45-135			
Bromochloromethane	0.0618	0.0058	mg/kg dry	0.05791	BRL	107	55-136			
Bromodichloromethane	0.0490	0.0058	mg/kg dry	0.05791	BRL	85	55-127			
Bromoform	0.0457	0.0058	mg/kg dry	0.05791	BRL	79	40-136			
Bromomethane	0.0388	0.012	mg/kg dry	0.05791	BRL	67	30-137			
Carbon Tetrachloride	0.0539	0.0058	mg/kg dry	0.05791	BRL	93	48-153			
Chlorobenzene	0.0617	0.0058	mg/kg dry	0.05791	BRL	107	57-125			
Chloroethane	0.0678	0.012	mg/kg dry	0.05791	BRL	117	16-177			
Chloroform	0.0528	0.0058	mg/kg dry	0.05791	BRL	91	56-137			
Chloromethane	0.0726	0.0058	mg/kg dry	0.05791	BRL	125	40-145			
cis-1,2-Dichloroethylene	0.0632	0.0058	mg/kg dry	0.05791	BRL	109	58-140			
cis-1,3-Dichloropropylene	0.0573	0.0058	mg/kg dry	0.05791	BRL	99	42-135			
Dibromochloromethane	0.0490	0.0058	mg/kg dry	0.05791	BRL	85	49-127			
Dichlorodifluoromethane	0.0659	0.0058	mg/kg dry	0.05791	BRL	114	25-151			
Ethanol	1.26	0.29	mg/kg dry	1.448	BRL	87	70-130			
Ethylbenzene	0.0596	0.0058	mg/kg dry	0.05791	BRL	103	44-144			
Isopropyl Ether	0.0534	0.0058	mg/kg dry	0.05791	BRL	92	51-155			
Isopropylbenzene (Cumene)	0.0630	0.0058	mg/kg dry	0.05791	BRL	109	41-140			
m,p-Xylenes	0.118	0.012	mg/kg dry	0.1158	BRL	102	36-148			
Methyl Butyl Ketone (2-Hexanone)	0.0498	0.058	mg/kg dry	0.05791	BRL	86	30-147			J
Methyl Ethyl Ketone (2-Butanone)	0.0552	0.12	mg/kg dry	0.05791	BRL	95	24-160			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
Matrix Spike (P5B0475-MS1)		**Source: 5020423-03**		Prepared & Analyzed: 02/25/15						
Methyl Isobutyl Ketone	0.0500	0.058	mg/kg dry	0.05791	BRL	86	25-163			J
Methylene Chloride	0.0664	0.0058	mg/kg dry	0.05791	BRL	115	53-144			
Methyl-tert-Butyl Ether	0.0559	0.012	mg/kg dry	0.05791	BRL	97	49-135			
Naphthalene	0.0491	0.012	mg/kg dry	0.05791	BRL	85	32-127			
n-Butylbenzene	0.0524	0.0058	mg/kg dry	0.05791	BRL	90	23-148			
n-Propylbenzene	0.0600	0.0058	mg/kg dry	0.05791	BRL	104	35-144			
o-Xylene	0.0583	0.0058	mg/kg dry	0.05791	BRL	101	43-143			
sec-Butylbenzene	0.0572	0.0058	mg/kg dry	0.05791	BRL	99	34-144			
Styrene	0.0613	0.0058	mg/kg dry	0.05791	BRL	106	42-132			
tert-Amyl Alcohol	0.0466	0.46	mg/kg dry	0.05791	BRL	81	70-130			J
tert-Amyl Methyl Ether	0.120	0.12	mg/kg dry	0.1158	BRL	103	70-130			
tert-Butyl Alcohol	0.119	0.23	mg/kg dry	0.1158	BRL	103	70-130			J
tert-Butyl Formate	0.0747	0.46	mg/kg dry	0.1158	BRL	65	70-130			MI, J
tert-Butylbenzene	0.0578	0.0058	mg/kg dry	0.05791	BRL	100	36-150			
tert-Butyl Ethyl Ether	0.119	0.12	mg/kg dry	0.1158	BRL	103	70-130			J
Tetrachloroethylene	0.0630	0.0058	mg/kg dry	0.05791	BRL	109	47-142			
Toluene	0.0654	0.0058	mg/kg dry	0.05791	BRL	113	57-135			
trans-1,2-Dichloroethylene	0.0624	0.0058	mg/kg dry	0.05791	BRL	108	58-141			
trans-1,3-Dichloropropylene	0.0535	0.0058	mg/kg dry	0.05791	BRL	92	41-124			
Trichloroethylene	0.0644	0.0058	mg/kg dry	0.05791	BRL	111	38-164			
Trichlorofluoromethane	0.0606	0.0058	mg/kg dry	0.05791	BRL	105	30-157			
Vinyl acetate	0.0444	0.029	mg/kg dry	0.05791	BRL	77	61-154			
Vinyl chloride	0.0717	0.0058	mg/kg dry	0.05791	BRL	124	40-156			
Xylenes, total	0.176	0.017	mg/kg dry	0.1737	BRL	101	36-148			
Surrogate: 4-Bromofluorobenzene	*0.0737*		*mg/kg dry*	*0.05791*		*127*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0728*		*mg/kg dry*	*0.05791*		*126*	*84-123*			*M*
Surrogate: Toluene-d8	*0.0740*		*mg/kg dry*	*0.05791*		*128*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
Matrix Spike Dup (P5B0475-MSD1)		**Source: 5020423-03**		Prepared & Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	0.0455	0.0052	mg/kg dry	0.05240	BRL	87	60-120	22	15	D
1,1,1-Trichloroethane	0.0438	0.0052	mg/kg dry	0.05240	BRL	84	52-139	20	21	
1,1,2,2-Tetrachloroethane	0.0476	0.0052	mg/kg dry	0.05240	BRL	91	39-135	23	22	D
1,1,2-Trichloroethane	0.0484	0.0052	mg/kg dry	0.05240	BRL	92	44-140	20	21	
1,1-Dichloroethane	0.0492	0.0052	mg/kg dry	0.05240	BRL	94	59-137	20	21	
1,1-Dichloroethylene	0.0481	0.0052	mg/kg dry	0.05240	BRL	92	54-162	19	22	
1,1-Dichloropropylene	0.0527	0.0052	mg/kg dry	0.05240	BRL	100	55-137	21	19	D
1,2,3-Trichlorobenzene	0.0301	0.0052	mg/kg dry	0.05240	BRL	57	34-120	37	41	
1,2,3-Trichloropropane	0.0427	0.0052	mg/kg dry	0.05240	BRL	81	45-139	23	25	
1,2,4-Trichlorobenzene	0.0305	0.0052	mg/kg dry	0.05240	BRL	58	35-116	37	62	
1,2,4-Trimethylbenzene	0.0436	0.0052	mg/kg dry	0.05240	BRL	83	38-142	29	24	D
1,2-Dibromoethane	0.0481	0.0052	mg/kg dry	0.05240	BRL	92	49-132	21	15	D
1,2-Dichlorobenzene	0.0423	0.0052	mg/kg dry	0.05240	BRL	81	42-130	29	21	D
1,2-Dichloroethane	0.0387	0.0052	mg/kg dry	0.05240	BRL	74	51-131	21	13	D
1,2-Dichloropropane	0.0525	0.0052	mg/kg dry	0.05240	BRL	100	55-138	20	16	D
1,3,5-Trimethylbenzene	0.0436	0.0052	mg/kg dry	0.05240	BRL	83	44-140	29	29	
1,3-Dichlorobenzene	0.0416	0.0052	mg/kg dry	0.05240	BRL	79	41-129	31	24	D
1,3-Dichloropropane	0.0472	0.0052	mg/kg dry	0.05240	BRL	90	53-129	20	15	D
1,4-Dichlorobenzene	0.0422	0.0052	mg/kg dry	0.05240	BRL	81	44-134	29	21	D
2,2-Dichloropropane	0.0414	0.0052	mg/kg dry	0.05240	BRL	79	30-147	22	20	D
2-Chlorotoluene	0.0432	0.0052	mg/kg dry	0.05240	BRL	82	46-132	28	29	
4-Chlorotoluene	0.0429	0.0052	mg/kg dry	0.05240	BRL	82	44-135	29	23	D
4-Isopropyltoluene	0.0404	0.0052	mg/kg dry	0.05240	BRL	77	32-144	31	22	D
Acetone	0.139	0.052	mg/kg dry	0.1048	BRL	133	34-143	20	49	
Benzene	0.0555	0.0031	mg/kg dry	0.05240	BRL	106	60-135	21	20	D
Bromobenzene	0.0448	0.0052	mg/kg dry	0.05240	BRL	86	45-135	26	25	D
Bromochloromethane	0.0528	0.0052	mg/kg dry	0.05240	BRL	101	55-136	16	18	
Bromodichloromethane	0.0392	0.0052	mg/kg dry	0.05240	BRL	75	55-127	22	17	D
Bromoform	0.0346	0.0052	mg/kg dry	0.05240	BRL	66	40-136	28	35	
Bromomethane	0.0392	0.010	mg/kg dry	0.05240	BRL	75	30-137	0.9	30	
Carbon Tetrachloride	0.0428	0.0052	mg/kg dry	0.05240	BRL	82	48-153	23	23	
Chlorobenzene	0.0484	0.0052	mg/kg dry	0.05240	BRL	92	57-125	24	14	D
Chloroethane	0.0564	0.010	mg/kg dry	0.05240	BRL	108	16-177	18	47	
Chloroform	0.0435	0.0052	mg/kg dry	0.05240	BRL	83	56-137	19	18	D
Chloromethane	0.0612	0.0052	mg/kg dry	0.05240	BRL	117	40-145	17	26	
cis-1,2-Dichloroethylene	0.0513	0.0052	mg/kg dry	0.05240	BRL	98	58-140	21	28	
cis-1,3-Dichloropropylene	0.0442	0.0052	mg/kg dry	0.05240	BRL	84	42-135	26	32	
Dibromochloromethane	0.0380	0.0052	mg/kg dry	0.05240	BRL	73	49-127	25	24	D
Dichlorodifluoromethane	0.0543	0.0052	mg/kg dry	0.05240	BRL	104	25-151	19	37	
Ethanol	1.10	0.26	mg/kg dry	1.310	BRL	84	70-130	14	20	
Ethylbenzene	0.0466	0.0052	mg/kg dry	0.05240	BRL	89	44-144	24	19	D
Isopropyl Ether	0.0437	0.0052	mg/kg dry	0.05240	BRL	83	51-155	20	13	D
Isopropylbenzene (Cumene)	0.0477	0.0052	mg/kg dry	0.05240	BRL	91	41-140	28	27	D
m,p-Xylenes	0.0923	0.010	mg/kg dry	0.1048	BRL	88	36-148	24	20	D
Methyl Butyl Ketone (2-Hexanone)	0.0410	0.052	mg/kg dry	0.05240	BRL	78	30-147	20	42	J
Methyl Ethyl Ketone (2-Butanone)	0.0454	0.10	mg/kg dry	0.05240	BRL	87	24-160	20	42	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0475 - 5035										
Matrix Spike Dup (P5B0475-MSD1)		**Source: 5020423-03**		Prepared & Analyzed: 02/25/15						
Methyl Isobutyl Ketone	0.0415	0.052	mg/kg dry	0.05240	BRL	79	25-163	18	44	J
Methylene Chloride	0.0538	0.0052	mg/kg dry	0.05240	BRL	103	53-144	21	14	D
Methyl-tert-Butyl Ether	0.0464	0.010	mg/kg dry	0.05240	BRL	88	49-135	19	22	
Naphthalene	0.0355	0.010	mg/kg dry	0.05240	BRL	68	32-127	32	44	
n-Butylbenzene	0.0374	0.0052	mg/kg dry	0.05240	BRL	71	23-148	33	39	
n-Propylbenzene	0.0449	0.0052	mg/kg dry	0.05240	BRL	86	35-144	29	27	D
o-Xylene	0.0456	0.0052	mg/kg dry	0.05240	BRL	87	43-143	24	17	D
sec-Butylbenzene	0.0422	0.0052	mg/kg dry	0.05240	BRL	81	34-144	30	28	D
Styrene	0.0468	0.0052	mg/kg dry	0.05240	BRL	89	42-132	27	28	
tert-Amyl Alcohol	0.0381	0.42	mg/kg dry	0.05240	BRL	73	70-130	20	20	J
tert-Amyl Methyl Ether	0.0987	0.10	mg/kg dry	0.1048	BRL	94	70-130	19	20	J
tert-Butyl Alcohol	0.0981	0.21	mg/kg dry	0.1048	BRL	94	70-130	19	20	J
tert-Butyl Formate	0.0560	0.42	mg/kg dry	0.1048	BRL	53	70-130	29	20	D, MI, J
tert-Butylbenzene	0.0429	0.0052	mg/kg dry	0.05240	BRL	82	36-150	30	29	D
tert-Butyl Ethyl Ether	0.0981	0.10	mg/kg dry	0.1048	BRL	94	70-130	19	20	J
Tetrachloroethylene	0.0493	0.0052	mg/kg dry	0.05240	BRL	94	47-142	25	26	
Toluene	0.0526	0.0052	mg/kg dry	0.05240	BRL	100	57-135	22	22	
trans-1,2-Dichloroethylene	0.0501	0.0052	mg/kg dry	0.05240	BRL	96	58-141	22	18	D
trans-1,3-Dichloropropylene	0.0422	0.0052	mg/kg dry	0.05240	BRL	80	41-124	24	20	D
Trichloroethylene	0.0525	0.0052	mg/kg dry	0.05240	BRL	100	38-164	20	18	D
Trichlorofluoromethane	0.0497	0.0052	mg/kg dry	0.05240	BRL	95	30-157	20	27	
Vinyl acetate	0.0312	0.026	mg/kg dry	0.05240	BRL	59	61-154	35	35	MI
Vinyl chloride	0.0593	0.0052	mg/kg dry	0.05240	BRL	113	40-156	19	35	
Xylenes, total	0.138	0.016	mg/kg dry	0.1572	BRL	88	36-148	24	20	D
Surrogate: 4-Bromofluorobenzene	*0.0634*		*mg/kg dry*	*0.05240*		*121*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0639*		*mg/kg dry*	*0.05240*		*122*	*84-123*			
Surrogate: Toluene-d8	*0.0646*		*mg/kg dry*	*0.05240*		*123*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0496 - 5030B										
Blank (P5B0496-BLK1)				Prepared & Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	5.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0496 - 5030B										
Blank (P5B0496-BLK1)				Prepared & Analyzed: 02/25/15						
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*53.7*		*ug/L*	*50.00*		*107*	*80-124*			
Surrogate: Dibromofluoromethane	*52.8*		*ug/L*	*50.00*		*106*	*75-129*			
Surrogate: Toluene-d8	*52.9*		*ug/L*	*50.00*		*106*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0496 - 5030B										
LCS (P5B0496-BS1)				Prepared & Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	19.4	0.50	ug/L	20.00		97	79-134			
1,1,1-Trichloroethane	19.1	0.50	ug/L	20.00		96	75-136			
1,1,2,2-Tetrachloroethane	22.0	0.50	ug/L	20.00		110	62-127			
1,1,2-Trichloroethane	21.7	0.50	ug/L	20.00		109	70-140			
1,1-Dichloroethane	21.4	0.50	ug/L	20.00		107	78-130			
1,1-Dichloroethylene	19.6	0.50	ug/L	20.00		98	70-154			
1,1-Dichloropropylene	20.3	0.50	ug/L	20.00		102	71-136			
1,2,3-Trichlorobenzene	22.2	2.0	ug/L	20.00		111	58-144			
1,2,3-Trichloropropane	21.2	1.0	ug/L	20.00		106	71-127			
1,2,4-Trichlorobenzene	19.9	1.0	ug/L	20.00		100	66-139			
1,2,4-Trimethylbenzene	23.5	0.50	ug/L	20.00		117	75-133			
1,2-Dibromo-3-chloropropane	20.0	2.0	ug/L	20.00		100	63-134			
1,2-Dibromoethane	21.4	0.50	ug/L	20.00		107	77-135			
1,2-Dichlorobenzene	22.5	0.50	ug/L	20.00		112	78-128			
1,2-Dichloroethane	21.1	0.50	ug/L	20.00		105	68-131			
1,2-Dichloropropane	21.7	0.50	ug/L	20.00		108	77-130			
1,3,5-Trimethylbenzene	23.7	0.50	ug/L	20.00		119	75-131			
1,3-Dichlorobenzene	22.2	0.50	ug/L	20.00		111	77-125			
1,3-Dichloropropane	21.2	0.50	ug/L	20.00		106	76-132			
1,4-Dichlorobenzene	22.2	0.50	ug/L	20.00		111	75-126			
2,2-Dichloropropane	19.9	2.0	ug/L	20.00		100	29-149			
2-Chloroethyl Vinyl Ether	20.5	5.0	ug/L	20.00		102	34-144			
2-Chlorotoluene	22.4	0.50	ug/L	20.00		112	74-126			
4-Chlorotoluene	22.4	0.50	ug/L	20.00		112	78-129			
4-Isopropyltoluene	23.4	0.50	ug/L	20.00		117	69-132			
Acetone	39.6	5.0	ug/L	40.00		99	40-166			
Acrolein	39.4	20	ug/L	40.00		98	70-130			
Acrylonitrile	41.9	20	ug/L	40.00		105	81-127			
Benzene	22.6	0.50	ug/L	20.00		113	77-128			
Bromobenzene	22.6	0.50	ug/L	20.00		113	78-129			
Bromochloromethane	21.0	0.50	ug/L	20.00		105	78-135			
Bromodichloromethane	18.4	0.50	ug/L	20.00		92	76-138			
Bromoform	20.0	1.0	ug/L	20.00		100	71-135			
Bromomethane	20.5	1.0	ug/L	20.00		103	41-168			
Carbon disulfide	21.3	5.0	ug/L	20.00		107	59-135			
Carbon Tetrachloride	19.6	0.50	ug/L	20.00		98	72-142			
Chlorobenzene	22.5	0.50	ug/L	20.00		113	78-119			
Chloroethane	23.6	0.50	ug/L	20.00		118	57-142			
Chloroform	19.7	0.50	ug/L	20.00		98	77-130			
Chloromethane	21.5	0.50	ug/L	20.00		107	47-145			
cis-1,2-Dichloroethylene	22.0	0.50	ug/L	20.00		110	76-141			
cis-1,3-Dichloropropylene	21.8	0.50	ug/L	20.00		109	65-140			
Dibromochloromethane	17.8	0.50	ug/L	20.00		89	75-134			
Dibromomethane	20.9	0.50	ug/L	20.00		105	76-138			
Dichlorodifluoromethane	18.4	1.0	ug/L	20.00		92	28-163			
Ethylbenzene	23.0	0.50	ug/L	20.00		115	80-127			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0496 - 5030B										
LCS (P5B0496-BS1)				Prepared & Analyzed: 02/25/15						
Hexachlorobutadiene	19.9	2.0	ug/L	20.00		99	61-134			
Isopropyl Ether	19.3	0.50	ug/L	20.00		97	60-154			
Isopropylbenzene (Cumene)	23.9	0.50	ug/L	20.00		120	70-130			
m,p-Xylenes	45.4	1.0	ug/L	40.00		113	77-133			
Methyl Butyl Ketone (2-Hexanone)	22.1	5.0	ug/L	20.00		111	64-137			
Methyl Ethyl Ketone (2-Butanone)	22.4	5.0	ug/L	20.00		112	71-134			
Methyl Isobutyl Ketone	22.3	5.0	ug/L	20.00		111	69-134			
Methylene Chloride	19.2	1.0	ug/L	20.00		96	73-131			
Methyl-tert-Butyl Ether	22.2	0.50	ug/L	20.00		111	68-135			
Naphthalene	23.0	1.0	ug/L	20.00		115	64-136			
n-Butylbenzene	23.8	1.0	ug/L	20.00		119	68-134			
n-Propylbenzene	23.9	0.50	ug/L	20.00		119	72-132			
o-Xylene	23.1	0.50	ug/L	20.00		116	78-128			
sec-Butylbenzene	23.7	0.50	ug/L	20.00		118	71-131			
Styrene	23.2	0.50	ug/L	20.00		116	78-129			
tert-Butylbenzene	23.1	0.50	ug/L	20.00		116	70-132			
Tetrachloroethylene	20.8	0.50	ug/L	20.00		104	80-129			
Toluene	22.6	0.50	ug/L	20.00		113	76-131			
trans-1,2-Dichloroethylene	20.1	0.50	ug/L	20.00		100	76-135			
trans-1,3-Dichloropropylene	21.4	0.50	ug/L	20.00		107	67-140			
Trichloroethylene	19.6	0.50	ug/L	20.00		98	77-133			
Trichlorofluoromethane	22.0	0.50	ug/L	20.00		110	62-148			
Vinyl acetate	24.2	2.0	ug/L	20.00		121	34-167			
Vinyl chloride	20.7	0.50	ug/L	20.00		103	57-141			
Surrogate: 4-Bromofluorobenzene	*51.5*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*50.6*		*ug/L*	*50.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*52.4*		*ug/L*	*50.00*		*105*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0496 - 5030B										
LCS Dup (P5B0496-BSD1)				Prepared & Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	19.6	0.50	ug/L	20.00		98	79-134	0.7	20	
1,1,1-Trichloroethane	19.2	0.50	ug/L	20.00		96	75-136	0.3	20	
1,1,2,2-Tetrachloroethane	21.6	0.50	ug/L	20.00		108	62-127	1	20	
1,1,2-Trichloroethane	21.8	0.50	ug/L	20.00		109	70-140	0.3	20	
1,1-Dichloroethane	20.8	0.50	ug/L	20.00		104	78-130	3	20	
1,1-Dichloroethylene	20.0	0.50	ug/L	20.00		100	70-154	2	20	
1,1-Dichloropropylene	20.6	0.50	ug/L	20.00		103	71-136	2	20	
1,2,3-Trichlorobenzene	22.2	2.0	ug/L	20.00		111	58-144	0.09	20	
1,2,3-Trichloropropane	20.2	1.0	ug/L	20.00		101	71-127	5	20	
1,2,4-Trichlorobenzene	20.2	1.0	ug/L	20.00		101	66-139	1	20	
1,2,4-Trimethylbenzene	23.2	0.50	ug/L	20.00		116	75-133	0.9	20	
1,2-Dibromo-3-chloropropane	19.4	2.0	ug/L	20.00		97	63-134	3	20	
1,2-Dibromoethane	20.9	0.50	ug/L	20.00		104	77-135	2	20	
1,2-Dichlorobenzene	22.6	0.50	ug/L	20.00		113	78-128	0.7	20	
1,2-Dichloroethane	19.9	0.50	ug/L	20.00		100	68-131	6	20	
1,2-Dichloropropane	21.8	0.50	ug/L	20.00		109	77-130	0.9	20	
1,3,5-Trimethylbenzene	24.0	0.50	ug/L	20.00		120	75-131	1	20	
1,3-Dichlorobenzene	22.0	0.50	ug/L	20.00		110	77-125	1	20	
1,3-Dichloropropane	21.5	0.50	ug/L	20.00		108	76-132	2	20	
1,4-Dichlorobenzene	22.6	0.50	ug/L	20.00		113	75-126	2	20	
2,2-Dichloropropane	20.2	2.0	ug/L	20.00		101	29-149	1	20	
2-Chloroethyl Vinyl Ether	21.0	5.0	ug/L	20.00		105	34-144	2	20	
2-Chlorotoluene	22.4	0.50	ug/L	20.00		112	74-126	0.2	20	
4-Chlorotoluene	22.2	0.50	ug/L	20.00		111	78-129	0.6	20	
4-Isopropyltoluene	23.2	0.50	ug/L	20.00		116	69-132	0.9	20	
Acetone	39.9	5.0	ug/L	40.00		100	40-166	0.9	20	
Acrolein	39.2	20	ug/L	40.00		98	70-130	0.4	20	
Acrylonitrile	42.6	20	ug/L	40.00		106	81-127	2	20	
Benzene	23.4	0.50	ug/L	20.00		117	77-128	3	20	
Bromobenzene	22.8	0.50	ug/L	20.00		114	78-129	1	20	
Bromochloromethane	21.0	0.50	ug/L	20.00		105	78-135	0.5	20	
Bromodichloromethane	18.4	0.50	ug/L	20.00		92	76-138	0.2	20	
Bromoform	19.4	1.0	ug/L	20.00		97	71-135	3	20	
Bromomethane	22.1	1.0	ug/L	20.00		110	41-168	7	20	
Carbon disulfide	21.4	5.0	ug/L	20.00		107	59-135	0.4	20	
Carbon Tetrachloride	19.7	0.50	ug/L	20.00		98	72-142	0.4	20	
Chlorobenzene	22.6	0.50	ug/L	20.00		113	78-119	0.3	20	
Chloroethane	25.5	0.50	ug/L	20.00		127	57-142	8	20	
Chloroform	19.6	0.50	ug/L	20.00		98	77-130	0.2	20	
Chloromethane	22.4	0.50	ug/L	20.00		112	47-145	4	20	
cis-1,2-Dichloroethylene	22.5	0.50	ug/L	20.00		112	76-141	2	20	
cis-1,3-Dichloropropylene	22.4	0.50	ug/L	20.00		112	65-140	3	20	
Dibromochloromethane	17.9	0.50	ug/L	20.00		89	75-134	0.3	20	
Dibromomethane	21.0	0.50	ug/L	20.00		105	76-138	0.3	20	
Dichlorodifluoromethane	19.1	1.0	ug/L	20.00		95	28-163	4	20	
Ethylbenzene	22.9	0.50	ug/L	20.00		114	80-127	0.4	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0496 - 5030B										
LCS Dup (P5B0496-BSD1)				Prepared & Analyzed: 02/25/15						
Hexachlorobutadiene	19.9	2.0	ug/L	20.00		99	61-134	0.05	20	
Isopropyl Ether	19.7	0.50	ug/L	20.00		98	60-154	2	20	
Isopropylbenzene (Cumene)	23.5	0.50	ug/L	20.00		118	70-130	2	20	
m,p-Xylenes	45.0	1.0	ug/L	40.00		113	77-133	0.7	20	
Methyl Butyl Ketone (2-Hexanone)	22.1	5.0	ug/L	20.00		110	64-137	0.2	20	
Methyl Ethyl Ketone (2-Butanone)	22.1	5.0	ug/L	20.00		111	71-134	1	20	
Methyl Isobutyl Ketone	22.6	5.0	ug/L	20.00		113	69-134	1	20	
Methylene Chloride	19.6	1.0	ug/L	20.00		98	73-131	2	20	
Methyl-tert-Butyl Ether	22.4	0.50	ug/L	20.00		112	68-135	1	20	
Naphthalene	22.4	1.0	ug/L	20.00		112	64-136	3	20	
n-Butylbenzene	24.0	1.0	ug/L	20.00		120	68-134	1	20	
n-Propylbenzene	23.9	0.50	ug/L	20.00		120	72-132	0.08	20	
o-Xylene	23.1	0.50	ug/L	20.00		116	78-128	0.1	20	
sec-Butylbenzene	23.8	0.50	ug/L	20.00		119	71-131	0.5	20	
Styrene	23.2	0.50	ug/L	20.00		116	78-129	0.3	20	
tert-Butylbenzene	23.3	0.50	ug/L	20.00		116	70-132	0.7	20	
Tetrachloroethylene	20.3	0.50	ug/L	20.00		101	80-129	3	20	
Toluene	22.6	0.50	ug/L	20.00		113	76-131	0.1	20	
trans-1,2-Dichloroethylene	20.8	0.50	ug/L	20.00		104	76-135	3	20	
trans-1,3-Dichloropropylene	21.4	0.50	ug/L	20.00		107	67-140	0	20	
Trichloroethylene	20.1	0.50	ug/L	20.00		100	77-133	3	20	
Trichlorofluoromethane	22.1	0.50	ug/L	20.00		110	62-148	0.3	20	
Vinyl acetate	23.6	2.0	ug/L	20.00		118	34-167	2	20	
Vinyl chloride	20.6	0.50	ug/L	20.00		103	57-141	0.4	20	
Surrogate: 4-Bromofluorobenzene	*51.7*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*51.3*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*52.1*		*ug/L*	*50.00*		*104*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
Blank (P5C0033-BLK1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
Blank (P5C0033-BLK1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.80*		*mg/kg wet*	*3.332*		*84*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.51*		*mg/kg wet*	*1.666*		*91*	*44-115*			
Surrogate: 2-Fluorophenol	*3.02*		*mg/kg wet*	*3.332*		*91*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.33*		*mg/kg wet*	*1.666*		*80*	*37-122*			
Surrogate: Phenol-d5	*2.78*		*mg/kg wet*	*3.332*		*83*	*34-121*			
Surrogate: Terphenyl-d14	*1.69*		*mg/kg wet*	*1.666*		*101*	*54-127*			
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	1.45	0.33	mg/kg wet	1.664		87	34-118			
1,2-Dichlorobenzene	1.34	0.33	mg/kg wet	1.664		81	33-117			
1,3-Dichlorobenzene	1.32	0.33	mg/kg wet	1.664		79	30-115			
1,4-Dichlorobenzene	1.25	0.33	mg/kg wet	1.664		75	31-115			
1-Methylnaphthalene	1.45	0.33	mg/kg wet	1.664		87	40-119			
2,4,6-Trichlorophenol	1.83	0.33	mg/kg wet	1.664		110	39-126			
2,4-Dichlorophenol	1.70	0.33	mg/kg wet	1.664		102	40-122			
2,4-Dimethylphenol	1.70	0.33	mg/kg wet	1.664		102	30-127			
2,4-Dinitrophenol	1.09	0.33	mg/kg wet	1.664		66	27-129			
2,4-Dinitrotoluene	1.78	0.33	mg/kg wet	1.664		107	48-126			
2,6-Dinitrotoluene	1.79	0.33	mg/kg wet	1.664		108	46-124			
2-Chloronaphthalene	2.15	0.33	mg/kg wet	1.664		129	41-114			LH
2-Chlorophenol	1.53	0.33	mg/kg wet	1.664		92	34-121			
2-Methylnaphthalene	1.52	0.33	mg/kg wet	1.664		92	38-122			
2-Methylphenol	1.58	0.33	mg/kg wet	1.664		95	32-122			
2-Nitrophenol	1.68	0.33	mg/kg wet	1.664		101	36-123			
3,3'-Dichlorobenzidine	1.41	0.33	mg/kg wet	1.664		84	22-121			
3/4-Methylphenol	1.59	0.33	mg/kg wet	1.664		96	34-119			
4,6-Dinitro-2-methylphenol	1.44	0.33	mg/kg wet	1.664		87	29-132			
4-Bromophenyl phenyl ether	1.53	0.33	mg/kg wet	1.664		92	46-124			
4-Chloro-3-methylphenol	1.74	0.33	mg/kg wet	1.664		105	45-122			
4-Chloroaniline	1.56	0.33	mg/kg wet	1.664		94	17-106			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
4-Chlorophenyl phenyl ether	1.53	0.33	mg/kg wet	1.664		92	45-121			
4-Nitrophenol	1.74	0.33	mg/kg wet	1.664		104	30-132			
Acenaphthene	1.57	0.33	mg/kg wet	1.664		94	40-123			
Acenaphthylene	1.60	0.33	mg/kg wet	1.664		96	32-132			
Anthracene	1.58	0.33	mg/kg wet	1.664		95	47-123			
Azobenzene	1.88	0.33	mg/kg wet	1.664		113	39-125			
Benzo(a)anthracene	1.53	0.33	mg/kg wet	1.664		92	49-126			
Benzo(a)pyrene	1.24	0.33	mg/kg wet	1.664		75	45-129			
Benzo(b)fluoranthene	1.26	0.33	mg/kg wet	1.664		76	45-132			
Benzo(g,h,i)perylene	1.27	0.33	mg/kg wet	1.664		76	43-134			
Benzo(k)fluoranthene	1.24	0.33	mg/kg wet	1.664		74	47-132			
Benzoic Acid	1.56	0.33	mg/kg wet	1.664		93	10-83			LH
Benzyl alcohol	1.39	0.33	mg/kg wet	1.664		83	29-122			
bis(2-Chloroethoxy)methane	1.52	0.33	mg/kg wet	1.664		91	36-121			
Bis(2-Chloroethyl)ether	1.34	0.33	mg/kg wet	1.664		81	31-120			
Bis(2-chloroisopropyl)ether	1.30	0.33	mg/kg wet	1.664		78	33-131			
Bis(2-Ethylhexyl)phthalate	1.57	0.33	mg/kg wet	1.664		94	51-133			
Butyl benzyl phthalate	1.55	0.33	mg/kg wet	1.664		93	48-132			
Chrysene	1.62	0.33	mg/kg wet	1.664		98	50-124			
Dibenzo(a,h)anthracene	1.26	0.33	mg/kg wet	1.664		76	45-134			
Dibenzofuran	1.53	0.33	mg/kg wet	1.664		92	44-120			
Diethyl phthalate	1.59	0.33	mg/kg wet	1.664		95	50-124			
Dimethyl phthalate	1.60	0.33	mg/kg wet	1.664		96	48-124			
Di-n-butyl phthalate	1.58	0.33	mg/kg wet	1.664		95	51-128			
Di-n-octyl phthalate	1.30	0.33	mg/kg wet	1.664		78	45-140			
Fluoranthene	1.54	0.33	mg/kg wet	1.664		92	50-127			
Fluorene	1.60	0.33	mg/kg wet	1.664		96	43-125			
Hexachlorobenzene	1.57	0.33	mg/kg wet	1.664		94	45-122			
Hexachlorobutadiene	1.45	0.33	mg/kg wet	1.664		87	32-123			
Hexachlorocyclopentadiene	1.50	0.33	mg/kg wet	1.664		90	32-117			
Hexachloroethane	1.31	0.33	mg/kg wet	1.664		79	28-117			
Indeno(1,2,3-cd)pyrene	1.31	0.33	mg/kg wet	1.664		79	45-133			
Isophorone	1.69	0.33	mg/kg wet	1.664		102	30-122			
Naphthalene	1.47	0.33	mg/kg wet	1.664		88	35-123			
Nitrobenzene	1.63	0.33	mg/kg wet	1.664		98	34-122			
N-Nitroso-di-n-propylamine	1.40	0.33	mg/kg wet	1.664		84	36-120			
N-Nitrosodiphenylamine	1.62	0.33	mg/kg wet	1.664		97	38-127			
Pentachlorophenol	1.55	0.33	mg/kg wet	1.664		93	25-133			
Phenanthrene	1.56	0.33	mg/kg wet	1.664		94	50-121			
Phenol	1.61	0.33	mg/kg wet	1.664		96	34-121			
Pyrene	1.59	0.33	mg/kg wet	1.664		95	47-127			
Surrogate: 2,4,6-Tribromophenol	*3.17*		*mg/kg wet*	*3.329*		*95*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.69*		*mg/kg wet*	*1.664*		*102*	*44-115*			
Surrogate: 2-Fluorophenol	*3.25*		*mg/kg wet*	*3.329*		*98*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.56*		*mg/kg wet*	*1.664*		*94*	*37-122*			
Surrogate: Phenol-d5	*3.10*		*mg/kg wet*	*3.329*		*93*	*34-121*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Surrogate: Terphenyl-d14	*1.77*		*mg/kg wet*	*1.664*		*106*	*54-127*			
LCS Dup (P5C0033-BSD1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	1.40	0.33	mg/kg wet	1.665		84	34-118	3	20	
1,2-Dichlorobenzene	1.37	0.33	mg/kg wet	1.665		82	33-117	2	20	
1,3-Dichlorobenzene	1.35	0.33	mg/kg wet	1.665		81	30-115	3	20	
1,4-Dichlorobenzene	1.32	0.33	mg/kg wet	1.665		79	31-115	5	20	
1-Methylnaphthalene	1.40	0.33	mg/kg wet	1.665		84	40-119	4	20	
2,4,6-Trichlorophenol	1.73	0.33	mg/kg wet	1.665		104	39-126	5	20	
2,4-Dichlorophenol	1.67	0.33	mg/kg wet	1.665		100	40-122	2	20	
2,4-Dimethylphenol	1.62	0.33	mg/kg wet	1.665		98	30-127	4	20	
2,4-Dinitrophenol	1.31	0.33	mg/kg wet	1.665		79	27-129	18	20	
2,4-Dinitrotoluene	1.76	0.33	mg/kg wet	1.665		105	48-126	2	20	
2,6-Dinitrotoluene	1.81	0.33	mg/kg wet	1.665		109	46-124	1	20	
2-Chloronaphthalene	2.17	0.33	mg/kg wet	1.665		130	41-114	1	20	LH
2-Chlorophenol	1.56	0.33	mg/kg wet	1.665		94	34-121	2	20	
2-Methylnaphthalene	1.46	0.33	mg/kg wet	1.665		88	38-122	4	20	
2-Methylphenol	1.58	0.33	mg/kg wet	1.665		95	32-122	0.07	20	
2-Nitrophenol	1.57	0.33	mg/kg wet	1.665		94	36-123	7	20	
3,3'-Dichlorobenzidine	1.37	0.33	mg/kg wet	1.665		82	22-121	3	20	
3/4-Methylphenol	1.66	0.33	mg/kg wet	1.665		100	34-119	4	20	
4,6-Dinitro-2-methylphenol	1.64	0.33	mg/kg wet	1.665		98	29-132	13	20	
4-Bromophenyl phenyl ether	1.49	0.33	mg/kg wet	1.665		89	46-124	2	20	
4-Chloro-3-methylphenol	1.67	0.33	mg/kg wet	1.665		100	45-122	4	20	
4-Chloroaniline	1.50	0.33	mg/kg wet	1.665		90	17-106	4	20	
4-Chlorophenyl phenyl ether	1.49	0.33	mg/kg wet	1.665		89	45-121	3	20	
4-Nitrophenol	1.48	0.33	mg/kg wet	1.665		89	30-132	16	20	
Acenaphthene	1.54	0.33	mg/kg wet	1.665		92	40-123	2	20	
Acenaphthylene	1.52	0.33	mg/kg wet	1.665		91	32-132	5	20	
Anthracene	1.56	0.33	mg/kg wet	1.665		94	47-123	1	20	
Azobenzene	1.81	0.33	mg/kg wet	1.665		109	39-125	3	20	
Benzo(a)anthracene	1.51	0.33	mg/kg wet	1.665		90	49-126	2	20	
Benzo(a)pyrene	1.23	0.33	mg/kg wet	1.665		74	45-129	1	20	
Benzo(b)fluoranthene	1.26	0.33	mg/kg wet	1.665		76	45-132	0.2	20	
Benzo(g,h,i)perylene	1.27	0.33	mg/kg wet	1.665		76	43-134	0.3	20	
Benzo(k)fluoranthene	1.24	0.33	mg/kg wet	1.665		74	47-132	0.07	20	
Benzoic Acid	1.51	0.33	mg/kg wet	1.665		91	10-83	3	20	LH
Benzyl alcohol	1.39	0.33	mg/kg wet	1.665		84	29-122	0.5	20	
bis(2-Chloroethoxy)methane	1.44	0.33	mg/kg wet	1.665		86	36-121	5	20	
Bis(2-Chloroethyl)ether	1.41	0.33	mg/kg wet	1.665		85	31-120	5	20	
Bis(2-chloroisopropyl)ether	1.32	0.33	mg/kg wet	1.665		79	33-131	1	20	
Bis(2-Ethylhexyl)phthalate	1.56	0.33	mg/kg wet	1.665		94	51-133	0.6	20	
Butyl benzyl phthalate	1.56	0.33	mg/kg wet	1.665		94	48-132	0.6	20	
Chrysene	1.57	0.33	mg/kg wet	1.665		95	50-124	3	20	
Dibenzo(a,h)anthracene	1.23	0.33	mg/kg wet	1.665		74	45-134	3	20	
Dibenzofuran	1.47	0.33	mg/kg wet	1.665		88	44-120	4	20	
Diethyl phthalate	1.55	0.33	mg/kg wet	1.665		93	50-124	3	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS Dup (P5C0033-BSD1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Dimethyl phthalate	1.54	0.33	mg/kg wet	1.665		92	48-124	4	20	
Di-n-butyl phthalate	1.54	0.33	mg/kg wet	1.665		93	51-128	2	20	
Di-n-octyl phthalate	1.26	0.33	mg/kg wet	1.665		76	45-140	3	20	
Fluoranthene	1.51	0.33	mg/kg wet	1.665		90	50-127	2	20	
Fluorene	1.54	0.33	mg/kg wet	1.665		93	43-125	4	20	
Hexachlorobenzene	1.61	0.33	mg/kg wet	1.665		97	45-122	2	20	
Hexachlorobutadiene	1.35	0.33	mg/kg wet	1.665		81	32-123	7	20	
Hexachlorocyclopentadiene	1.39	0.33	mg/kg wet	1.665		84	32-117	8	20	
Hexachloroethane	1.34	0.33	mg/kg wet	1.665		80	28-117	2	20	
Indeno(1,2,3-cd)pyrene	1.29	0.33	mg/kg wet	1.665		77	45-133	2	20	
Isophorone	1.60	0.33	mg/kg wet	1.665		96	30-122	6	20	
Naphthalene	1.42	0.33	mg/kg wet	1.665		85	35-123	4	20	
Nitrobenzene	1.50	0.33	mg/kg wet	1.665		90	34-122	8	20	
N-Nitroso-di-n-propylamine	1.46	0.33	mg/kg wet	1.665		88	36-120	4	20	
N-Nitrosodiphenylamine	1.58	0.33	mg/kg wet	1.665		95	38-127	2	20	
Pentachlorophenol	1.59	0.33	mg/kg wet	1.665		96	25-133	3	20	
Phenanthrene	1.53	0.33	mg/kg wet	1.665		92	50-121	2	20	
Phenol	1.65	0.33	mg/kg wet	1.665		99	34-121	3	20	
Pyrene	1.56	0.33	mg/kg wet	1.665		94	47-127	2	20	
Surrogate: 2,4,6-Tribromophenol	*3.30*		*mg/kg wet*	*3.330*		*99*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.69*		*mg/kg wet*	*1.665*		*101*	*44-115*			
Surrogate: 2-Fluorophenol	*3.41*		*mg/kg wet*	*3.330*		*102*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.55*		*mg/kg wet*	*1.665*		*93*	*37-122*			
Surrogate: Phenol-d5	*3.24*		*mg/kg wet*	*3.330*		*97*	*34-121*			
Surrogate: Terphenyl-d14	*1.76*		*mg/kg wet*	*1.665*		*106*	*54-127*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0018 - MADEP VPH (S)										
Blank (P5C0018-BLK1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	*9.50*		*mg/kg wet*	*10.67*		*89*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*9.85*		*mg/kg wet*	*10.67*		*92*	*70-130*			
LCS (P5C0018-BS1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	33.5	5.0	mg/kg wet	32.00		105	70-130			
C9-C10 Aromatics	10.6	5.0	mg/kg wet	10.67		100	70-130			
C9-C12 Aliphatic	36.4	5.0	mg/kg wet	32.00		114	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*10.9*		*mg/kg wet*	*10.67*		*102*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*11.3*		*mg/kg wet*	*10.67*		*106*	*70-130*			
LCS Dup (P5C0018-BSD1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	32.1	5.0	mg/kg wet	32.00		100	70-130	4	50	
C9-C10 Aromatics	10.3	5.0	mg/kg wet	10.67		97	70-130	3	50	
C9-C12 Aliphatic	35.7	5.0	mg/kg wet	32.00		112	70-130	2	50	
Surrogate: 2,5-Dibromotoluene (PID)	*10.4*		*mg/kg wet*	*10.67*		*98*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*10.7*		*mg/kg wet*	*10.67*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0520 - 5035										
Blank (P5B0520-BLK1)				Prepared & Analyzed: 02/27/15						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*5.10*		*mg/kg wet*	*5.000*		*102*	*50-137*			
LCS (P5B0520-BS1)				Prepared & Analyzed: 02/27/15						
Gasoline Range Organics	55.2	5.0	mg/kg wet	50.00		110	41-138			
Surrogate: a,a,a-Trifluorotoluene	*4.75*		*mg/kg wet*	*5.000*		*95*	*50-137*			
LCS Dup (P5B0520-BSD1)				Prepared & Analyzed: 02/27/15						
Gasoline Range Organics	60.6	5.0	mg/kg wet	50.00		121	41-138	9	20	
Surrogate: a,a,a-Trifluorotoluene	*5.15*		*mg/kg wet*	*5.000*		*103*	*50-137*			
Matrix Spike (P5B0520-MS1)	**Source: 5020423-01**			Prepared & Analyzed: 02/27/15						
Gasoline Range Organics	77.2	6.4	mg/kg dry	64.21	BRL	120	41-138			
Surrogate: a,a,a-Trifluorotoluene	*6.48*		*mg/kg dry*	*6.421*		*101*	*50-137*			
Matrix Spike Dup (P5B0520-MSD1)	**Source: 5020423-01**			Prepared & Analyzed: 02/27/15						
Gasoline Range Organics	77.8	6.4	mg/kg dry	64.47	BRL	121	41-138	0.7	34	
Surrogate: a,a,a-Trifluorotoluene	*6.45*		*mg/kg dry*	*6.447*		*100*	*50-137*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0037 - 3546										
Blank (P5C0037-BLK1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	BRL	10	mg/kg wet							
C19-C36 Aliphatics	2.65	10	mg/kg wet							J
C11-C22 Aromatics	BRL	10	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.59*		*mg/kg wet*	*2.000*		*80*	*40-140*			
Surrogate: o-Terphenyl	*1.51*		*mg/kg wet*	*2.000*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.57*		*mg/kg wet*	*4.000*		*89*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.30*		*mg/kg wet*	*4.000*		*83*	*40-140*			
LCS (P5C0037-BS1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	34.3	10	mg/kg wet	60.00		57	40-140			
C19-C36 Aliphatics	66.1	10	mg/kg wet	80.00		83	40-140			
C11-C22 Aromatics	148	10	mg/kg wet	170.0		87	40-140			
Surrogate: 1-Chlorooctadecane	*1.81*		*mg/kg wet*	*2.000*		*91*	*40-140*			
Surrogate: o-Terphenyl	*1.86*		*mg/kg wet*	*2.000*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.76*		*mg/kg wet*	*4.000*		*94*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.81*		*mg/kg wet*	*4.000*		*95*	*40-140*			
LCS Dup (P5C0037-BSD1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	33.0	10	mg/kg wet	60.00		55	40-140	4	50	
C19-C36 Aliphatics	63.2	10	mg/kg wet	80.00		79	40-140	5	50	
C11-C22 Aromatics	135	10	mg/kg wet	170.0		79	40-140	9	50	
Surrogate: 1-Chlorooctadecane	*1.56*		*mg/kg wet*	*2.000*		*78*	*40-140*			
Surrogate: o-Terphenyl	*1.61*		*mg/kg wet*	*2.000*		*80*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*4.00*		*mg/kg wet*	*4.000*		*100*	*40-140*			
Surrogate: 2-Bromonaphthalene	*4.09*		*mg/kg wet*	*4.000*		*102*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0517 - 3546										
Blank (P5B0517-BLK1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*0.774*		*mg/kg wet*	*1.333*		*58*	*49-124*			
LCS (P5B0517-BS1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	58.1	7.0	mg/kg wet	66.64		87	55-109			
Surrogate: o-Terphenyl	*1.24*		*mg/kg wet*	*1.333*		*93*	*49-124*			
LCS Dup (P5B0517-BSD1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	66.5	7.0	mg/kg wet	66.64		100	55-109	14	20	
Surrogate: o-Terphenyl	*1.36*		*mg/kg wet*	*1.333*		*102*	*49-124*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0463 - 3050B										
Blank (P5B0463-BLK1)				Prepared & Analyzed: 02/25/15						
Chromium	BRL	0.25	mg/kg wet							
Lead	BRL	0.25	mg/kg wet							
LCS (P5B0463-BS1)				Prepared & Analyzed: 02/25/15						
Chromium	26.4	0.25	mg/kg wet	25.00		106	80-120			
Lead	25.5	0.25	mg/kg wet	25.00		102	80-120			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020423
Time Submitted: 2/24/2015 12:34:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0063 - Solids, Dry Weight										
Blank (P5C0063-BLK1)				Prepared & Analyzed: 03/03/15						
% Solids	100	0.100	% by Weight							
Duplicate (P5C0063-DUP1)		**Source: 5020423-01**		Prepared & Analyzed: 03/03/15						
% Solids	78.4	0.100	% by Weight		79.3			1	20	
Duplicate (P5C0063-DUP2)		**Source: 5020423-07**		Prepared & Analyzed: 03/03/15						
% Solids	79.1	0.100	% by Weight		77.3			2	20	

Sample Extraction Data

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020423-08	P5B0517	30 g	1 mL	02/27/15 11:30

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020423-09	P5C0037	10 g	2 mL	03/03/15 11:10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020423-01	P5B0520	5.75 g	5 mL	02/27/15 14:27
5020423-02	P5B0520	6.45 g	5 mL	02/27/15 14:27
5020423-03	P5B0520	6.67 g	5 mL	02/27/15 14:27
5020423-04	P5B0520	5.93 g	5 mL	02/27/15 14:27
5020423-05	P5B0520	6.29 g	5 mL	02/27/15 14:27
5020423-06	P5B0520	5.69 g	5 mL	02/27/15 14:27
5020423-07	P5B0520	5.47 g	5 mL	02/27/15 14:27
5020423-10	P5B0520	5.25 g	5 mL	02/27/15 14:27

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
5020423-01	P5C0063	30 g	30 g	03/03/15 14:20
5020423-02	P5C0063	30 g	30 g	03/03/15 14:20
5020423-03	P5C0063	30 g	30 g	03/03/15 14:20
5020423-04	P5C0063	30 g	30 g	03/03/15 14:20
5020423-05	P5C0063	30 g	30 g	03/03/15 14:20
5020423-06	P5C0063	30 g	30 g	03/03/15 14:20
5020423-07	P5C0063	30 g	30 g	03/03/15 14:20
5020423-08	P5C0063	30 g	30 g	03/03/15 14:20
5020423-09	P5C0063	30 g	30 g	03/03/15 14:20
5020423-10	P5C0063	30 g	30 g	03/03/15 14:20

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020423-09	P5C0033	30 g	1 mL	03/03/15 10:50

Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
5020423-09	P5B0463	2.05 g	50 mL	02/25/15 9:10

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5020423-11	P5B0496	10 mL	10 mL	02/25/15 16:00

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020423-01	P5B0475	5.76 g	5 mL	02/25/15 12:51
5020423-02	P5B0475	5.65 g	5 mL	02/25/15 12:51
5020423-03	P5B0475	5.48 g	5 mL	02/25/15 12:51
5020423-04	P5B0475	6.12 g	5 mL	02/25/15 12:51
5020423-05	P5B0475	6.23 g	5 mL	02/25/15 12:51
5020423-06	P5B0475	4.69 g	5 mL	02/25/15 12:51
5020423-07	P5B0475	5.23 g	5 mL	02/25/15 12:51

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Extraction Data

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020423-09	P5B0475	6.49 g	5 mL	02/25/15 12:51
5020423-10	P5B0475	5.22 g	5 mL	02/25/15 12:51

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date/Time
5020423-09	P5C0018	20.57 g	16 mL	03/02/15 15:03

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Charlotte Airport Rental Car Sites
Short Hold Analysis: (Yes) (NO) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Client Company Name: URS
Report To/Contact Name: James McDermon
Reporting Address: 6000 Fairview Road, Suite 200 Charlotte, NC 28210
Phone: 704-522-6330 Fax (Yes) (No): _____
Email Address: jim.mcdermon@aecom.com
EDD Type: PDF ___ Excel ___ Other _____
Site Location Name: Rental Car Facilities
Site Location Physical Address: _____

Invoice To: Michelle Friedman
Address: 5925 Carnegie Blvd, Suite 300 Charlotte, NC 28209
Purchase Order No./Billing Reference 60340235

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR-10 Observed: 3.4 °C / Corr 2.0 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ DoD ___ FL ___ NC X
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO X
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8260	GRO	DRO	EPH & VPH	C/T Pb	8270	REMARKS	PRISM LAB ID NO.
Advantage TMW-1	2/23/15	1020	Soil	VOA & G	6	40 ml/4oz	Methanol None	X	X						01
Advantage TMW-2		1135						X	X						02
Advantage TMW-3 (4-6)		1050						X	X						03
Advantage TMW-3 (8-10)		1055						X	X						04
Dup-1		1100						X	X						05
Advantage TMW-4 (0-2)		1205						X	X						06
Advantage TMW-4 (8-10)		1210						X	X						07
Advantage TMW-5		1345		G	1	4oz	None			X					08
Payless B2		1530		VOA & G	7	40ml/4oz 8oz	Methanol None	X			X	X	X		09
Dollar TMW-1		1535			6	40 ml/4oz		X	X						10

Sampler's Signature Brandt Morrow Sampled By (Print Name) Brandt Morrow Affiliation _____

PRESS DOWN FIRMLY - 3 COPIES

TRIP BLANK 8260 TB 11

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	2/24/15	12:14
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 2/24/15	12:34

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other _____

COC Group No. 5020423

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/06/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/25/2015
Prism Work Order: 5020437

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones

President/Project Manager

Reviewed By Robbi A. Jones

President/Project Manager

Data Qualifiers Key Reference:

A	Low CCV recovery.
CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
MI	Matrix spike outside of the control limits. Matrix interference suspected.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

03/06/2015

Prism Work Order: 5020437

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Avis TMW-1	5020437-01	Solid	02/24/15	02/25/15
Avis B2	5020437-02	Solid	02/24/15	02/25/15
Avis TMW-5	5020437-03	Solid	02/24/15	02/25/15
Avis TMW-6	5020437-04	Solid	02/24/15	02/25/15
Trip Blank	5020437-05	Water	02/24/15	02/25/15

Samples were received in good condition at 0.6 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/06/2015

Prism Work Order: 5020437

Prism ID	Client ID	Parameter	Method	Result		Units
5020437-01	Avis TMW-1	C19-C36 Aliphatics	MADEP EPH	9.8	J	mg/kg dry
5020437-01	Avis TMW-1	C11-C22 Aromatics	MADEP EPH	2.2	J	mg/kg dry
5020437-01	Avis TMW-1	Benzo(a)anthracene	8270D	0.10	J	mg/kg dry
5020437-01	Avis TMW-1	Benzo(b)fluoranthene	8270D	0.12	J	mg/kg dry
5020437-01	Avis TMW-1	Chrysene	8270D	0.15	J	mg/kg dry
5020437-01	Avis TMW-1	Fluoranthene	8270D	0.45		mg/kg dry
5020437-01	Avis TMW-1	Phenanthrene	8270D	0.69		mg/kg dry
5020437-01	Avis TMW-1	Pyrene	8270D	0.34	J	mg/kg dry
5020437-01	Avis TMW-1	Chromium	*6010C	5.9		mg/kg dry
5020437-01	Avis TMW-1	Lead	*6010C	4.3		mg/kg dry
5020437-05	Trip Blank	Methylene Chloride	*8260B	1.0		ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-1
Prism Sample ID: 5020437-01
Prism Work Order: 5020437
Time Collected: 02/24/15 10:00
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	0.66	1	MADEP EPH	3/5/15 18:46	KC	P5C0037
C19-C36 Aliphatics	**9.8 J**	**mg/kg dry**	**12**	**2.7**	**1**	**MADEP EPH**	**3/5/15 18:46**	**KC**	**P5C0037**
C11-C22 Aromatics	**2.2 J**	**mg/kg dry**	**12**	**2.1**	**1**	**MADEP EPH**	**3/5/15 18:46**	**KC**	**P5C0037**
			Surrogate			Recovery		Control Limits	
			1-Chlorooctadecane			*107 %*		*40-140*	
			o-Terphenyl			*98 %*		*40-140*	
			2-Fluorobiphenyl			*105 %*		*40-140*	
			2-Bromonaphthalene			*101 %*		*40-140*	
General Chemistry Parameters									
% Solids	**86.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.38	0.059	1	8270D	3/4/15 16:54	KC	P5C0033
1,2-Dichlorobenzene	BRL	mg/kg dry	0.38	0.058	1	8270D	3/4/15 16:54	KC	P5C0033
1,3-Dichlorobenzene	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 16:54	KC	P5C0033
1,4-Dichlorobenzene	BRL	mg/kg dry	0.38	0.056	1	8270D	3/4/15 16:54	KC	P5C0033
1-Methylnaphthalene	BRL	mg/kg dry	0.38	0.073	1	8270D	3/4/15 16:54	KC	P5C0033
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.38	0.071	1	8270D	3/4/15 16:54	KC	P5C0033
2,4-Dichlorophenol	BRL	mg/kg dry	0.38	0.073	1	8270D	3/4/15 16:54	KC	P5C0033
2,4-Dimethylphenol	BRL	mg/kg dry	0.38	0.058	1	8270D	3/4/15 16:54	KC	P5C0033
2,4-Dinitrophenol	BRL	mg/kg dry	0.38	0.053	1	8270D	3/4/15 16:54	KC	P5C0033
2,4-Dinitrotoluene	BRL	mg/kg dry	0.38	0.046	1	8270D	3/4/15 16:54	KC	P5C0033
2,6-Dinitrotoluene	BRL	mg/kg dry	0.38	0.051	1	8270D	3/4/15 16:54	KC	P5C0033
2-Chloronaphthalene	BRL	mg/kg dry	0.38	0.055	1	8270D	3/4/15 16:54	KC	P5C0033
2-Chlorophenol	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 16:54	KC	P5C0033
2-Methylnaphthalene	BRL	mg/kg dry	0.38	0.061	1	8270D	3/4/15 16:54	KC	P5C0033
2-Methylphenol	BRL	mg/kg dry	0.38	0.049	1	8270D	3/4/15 16:54	KC	P5C0033
2-Nitrophenol	BRL	mg/kg dry	0.38	0.069	1	8270D	3/4/15 16:54	KC	P5C0033
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.38	0.075	1	8270D	3/4/15 16:54	KC	P5C0033
3/4-Methylphenol	BRL	mg/kg dry	0.38	0.047	1	8270D	3/4/15 16:54	KC	P5C0033
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.38	0.057	1	8270D	3/4/15 16:54	KC	P5C0033
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.38	0.065	1	8270D	3/4/15 16:54	KC	P5C0033
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.38	0.053	1	8270D	3/4/15 16:54	KC	P5C0033
4-Chloroaniline	BRL	mg/kg dry	0.38	0.046	1	8270D	3/4/15 16:54	KC	P5C0033
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.38	0.049	1	8270D	3/4/15 16:54	KC	P5C0033
4-Nitrophenol	BRL	mg/kg dry	0.38	0.059	1	8270D	3/4/15 16:54	KC	P5C0033
Acenaphthene	BRL	mg/kg dry	0.38	0.052	1	8270D	3/4/15 16:54	KC	P5C0033
Acenaphthylene	BRL	mg/kg dry	0.38	0.055	1	8270D	3/4/15 16:54	KC	P5C0033
Anthracene	BRL	mg/kg dry	0.38	0.061	1	8270D	3/4/15 16:54	KC	P5C0033
Azobenzene	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 16:54	KC	P5C0033
Benzo(a)anthracene	**0.10 J**	**mg/kg dry**	**0.38**	**0.050**	**1**	**8270D**	**3/4/15 16:54**	**KC**	**P5C0033**
Benzo(a)pyrene	BRL	mg/kg dry	0.38	0.041	1	8270D	3/4/15 16:54	KC	P5C0033

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-1
Prism Sample ID: 5020437-01
Prism Work Order: 5020437
Time Collected: 02/24/15 10:00
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	**0.12 J**	**mg/kg dry**	**0.38**	**0.044**	**1**	**8270D**	**3/4/15 16:54**	**KC**	**P5C0033**
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.38	0.042	1	8270D	3/4/15 16:54	KC	P5C0033
Benzo(k)fluoranthene	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 16:54	KC	P5C0033
Benzoic Acid	BRL CCV	mg/kg dry	0.38	0.032	1	8270D	3/4/15 16:54	KC	P5C0033
Benzyl alcohol	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 16:54	KC	P5C0033
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.38	0.066	1	8270D	3/4/15 16:54	KC	P5C0033
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 16:54	KC	P5C0033
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.38	0.065	1	8270D	3/4/15 16:54	KC	P5C0033
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.38	0.056	1	8270D	3/4/15 16:54	KC	P5C0033
Butyl benzyl phthalate	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 16:54	KC	P5C0033
Chrysene	**0.15 J**	**mg/kg dry**	**0.38**	**0.048**	**1**	**8270D**	**3/4/15 16:54**	**KC**	**P5C0033**
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.38	0.046	1	8270D	3/4/15 16:54	KC	P5C0033
Dibenzofuran	BRL	mg/kg dry	0.38	0.058	1	8270D	3/4/15 16:54	KC	P5C0033
Diethyl phthalate	BRL	mg/kg dry	0.38	0.052	1	8270D	3/4/15 16:54	KC	P5C0033
Dimethyl phthalate	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 16:54	KC	P5C0033
Di-n-butyl phthalate	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 16:54	KC	P5C0033
Di-n-octyl phthalate	BRL	mg/kg dry	0.38	0.047	1	8270D	3/4/15 16:54	KC	P5C0033
Fluoranthene	**0.45**	**mg/kg dry**	**0.38**	**0.048**	**1**	**8270D**	**3/4/15 16:54**	**KC**	**P5C0033**
Fluorene	BRL	mg/kg dry	0.38	0.055	1	8270D	3/4/15 16:54	KC	P5C0033
Hexachlorobenzene	BRL	mg/kg dry	0.38	0.060	1	8270D	3/4/15 16:54	KC	P5C0033
Hexachlorobutadiene	BRL	mg/kg dry	0.38	0.068	1	8270D	3/4/15 16:54	KC	P5C0033
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.38	0.068	1	8270D	3/4/15 16:54	KC	P5C0033
Hexachloroethane	BRL	mg/kg dry	0.38	0.064	1	8270D	3/4/15 16:54	KC	P5C0033
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.38	0.044	1	8270D	3/4/15 16:54	KC	P5C0033
Isophorone	BRL	mg/kg dry	0.38	0.051	1	8270D	3/4/15 16:54	KC	P5C0033
Naphthalene	BRL	mg/kg dry	0.38	0.061	1	8270D	3/4/15 16:54	KC	P5C0033
Nitrobenzene	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 16:54	KC	P5C0033
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.38	0.060	1	8270D	3/4/15 16:54	KC	P5C0033
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.38	0.058	1	8270D	3/4/15 16:54	KC	P5C0033
Pentachlorophenol	BRL	mg/kg dry	0.38	0.045	1	8270D	3/4/15 16:54	KC	P5C0033
Phenanthrene	**0.69**	**mg/kg dry**	**0.38**	**0.049**	**1**	**8270D**	**3/4/15 16:54**	**KC**	**P5C0033**
Phenol	BRL	mg/kg dry	0.38	0.056	1	8270D	3/4/15 16:54	KC	P5C0033
Pyrene	**0.34 J**	**mg/kg dry**	**0.38**	**0.050**	**1**	**8270D**	**3/4/15 16:54**	**KC**	**P5C0033**

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*97 %*	*39-132*
2-Fluorobiphenyl	*98 %*	*44-115*
2-Fluorophenol	*95 %*	*35-115*
Nitrobenzene-d5	*87 %*	*37-122*
Phenol-d5	*88 %*	*34-121*
Terphenyl-d14	*111 %*	*54-127*

Total Metals

Chromium	**5.9**	**mg/kg dry**	**0.29**	**0.047**	**1**	***6010C**	**3/3/15 19:43**	**BGM**	**P5C0003**
Lead	**4.3**	**mg/kg dry**	**0.29**	**0.044**	**1**	***6010C**	**3/3/15 19:43**	**BGM**	**P5C0003**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-1
Prism Sample ID: 5020437-01
Prism Work Order: 5020437
Time Collected: 02/24/15 10:00
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00045	1	8260B	2/27/15 12:19	MSC	P5B0514
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/27/15 12:19	MSC	P5B0514
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B	2/27/15 12:19	MSC	P5B0514
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0055	0.00048	1	8260B	2/27/15 12:19	MSC	P5B0514
1,1-Dichloroethane	BRL	mg/kg dry	0.0055	0.00015	1	8260B	2/27/15 12:19	MSC	P5B0514
1,1-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00024	1	8260B	2/27/15 12:19	MSC	P5B0514
1,1-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00030	1	8260B	2/27/15 12:19	MSC	P5B0514
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00031	1	8260B	2/27/15 12:19	MSC	P5B0514
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0055	0.00070	1	8260B	2/27/15 12:19	MSC	P5B0514
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00041	1	8260B	2/27/15 12:19	MSC	P5B0514
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00042	1	8260B	2/27/15 12:19	MSC	P5B0514
1,2-Dibromoethane	BRL	mg/kg dry	0.0055	0.00022	1	8260B	2/27/15 12:19	MSC	P5B0514
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/27/15 12:19	MSC	P5B0514
1,2-Dichloroethane	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/27/15 12:19	MSC	P5B0514
1,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00034	1	8260B	2/27/15 12:19	MSC	P5B0514
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00041	1	8260B	2/27/15 12:19	MSC	P5B0514
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00036	1	8260B	2/27/15 12:19	MSC	P5B0514
1,3-Dichloropropane	BRL	mg/kg dry	0.0055	0.00027	1	8260B	2/27/15 12:19	MSC	P5B0514
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00022	1	8260B	2/27/15 12:19	MSC	P5B0514
2,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/27/15 12:19	MSC	P5B0514
2-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00028	1	8260B	2/27/15 12:19	MSC	P5B0514
4-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/27/15 12:19	MSC	P5B0514
4-Isopropyltoluene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/27/15 12:19	MSC	P5B0514
Acetone	BRL	mg/kg dry	0.055	0.0013	1	8260B	2/27/15 12:19	MSC	P5B0514
Benzene	BRL	mg/kg dry	0.0033	0.00032	1	8260B	2/27/15 12:19	MSC	P5B0514
Bromobenzene	BRL	mg/kg dry	0.0055	0.00046	1	8260B	2/27/15 12:19	MSC	P5B0514
Bromochloromethane	BRL	mg/kg dry	0.0055	0.00030	1	8260B	2/27/15 12:19	MSC	P5B0514
Bromodichloromethane	BRL	mg/kg dry	0.0055	0.00030	1	8260B	2/27/15 12:19	MSC	P5B0514
Bromoform	BRL	mg/kg dry	0.0055	0.00062	1	8260B	2/27/15 12:19	MSC	P5B0514
Bromomethane	BRL	mg/kg dry	0.011	0.00067	1	8260B	2/27/15 12:19	MSC	P5B0514
Carbon Tetrachloride	BRL	mg/kg dry	0.0055	0.00027	1	8260B	2/27/15 12:19	MSC	P5B0514
Chlorobenzene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	2/27/15 12:19	MSC	P5B0514
Chloroethane	BRL	mg/kg dry	0.011	0.00046	1	8260B	2/27/15 12:19	MSC	P5B0514
Chloroform	BRL	mg/kg dry	0.0055	0.00039	1	8260B	2/27/15 12:19	MSC	P5B0514
Chloromethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B	2/27/15 12:19	MSC	P5B0514
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00023	1	8260B	2/27/15 12:19	MSC	P5B0514
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00018	1	8260B	2/27/15 12:19	MSC	P5B0514
Dibromochloromethane	BRL	mg/kg dry	0.0055	0.00023	1	8260B	2/27/15 12:19	MSC	P5B0514
Dichlorodifluoromethane	BRL	mg/kg dry	0.0055	0.00025	1	8260B	2/27/15 12:19	MSC	P5B0514
Ethanol	BRL	mg/kg dry	0.27	0.11	1	8260B	2/27/15 12:19	MSC	P5B0514
Ethylbenzene	BRL	mg/kg dry	0.0055	0.00021	1	8260B	2/27/15 12:19	MSC	P5B0514
Isopropyl Ether	BRL	mg/kg dry	0.0055	0.00022	1	8260B	2/27/15 12:19	MSC	P5B0514

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-1
Prism Sample ID: 5020437-01
Prism Work Order: 5020437
Time Collected: 02/24/15 10:00
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0055	0.00032	1	8260B	2/27/15 12:19	MSC	P5B0514
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00050	1	8260B	2/27/15 12:19	MSC	P5B0514
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.055	0.00049	1	8260B	2/27/15 12:19	MSC	P5B0514
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00049	1	8260B	2/27/15 12:19	MSC	P5B0514
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.055	0.00047	1	8260B	2/27/15 12:19	MSC	P5B0514
Methylene Chloride	BRL	mg/kg dry	0.0055	0.00031	1	8260B	2/27/15 12:19	MSC	P5B0514
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00017	1	8260B	2/27/15 12:19	MSC	P5B0514
Naphthalene	BRL	mg/kg dry	0.011	0.00017	1	8260B	2/27/15 12:19	MSC	P5B0514
n-Butylbenzene	BRL	mg/kg dry	0.0055	0.00028	1	8260B	2/27/15 12:19	MSC	P5B0514
n-Propylbenzene	BRL	mg/kg dry	0.0055	0.00032	1	8260B	2/27/15 12:19	MSC	P5B0514
o-Xylene	BRL	mg/kg dry	0.0055	0.00022	1	8260B	2/27/15 12:19	MSC	P5B0514
sec-Butylbenzene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/27/15 12:19	MSC	P5B0514
Styrene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/27/15 12:19	MSC	P5B0514
tert-Amyl Alcohol	BRL	mg/kg dry	0.44	0.0045	1	8260B	2/27/15 12:19	MSC	P5B0514
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00047	1	8260B	2/27/15 12:19	MSC	P5B0514
tert-Butyl Alcohol	BRL	mg/kg dry	0.22	0.00038	1	8260B	2/27/15 12:19	MSC	P5B0514
tert-Butyl Formate	BRL	mg/kg dry	0.44	0.00054	1	8260B	2/27/15 12:19	MSC	P5B0514
tert-Butylbenzene	BRL	mg/kg dry	0.0055	0.00018	1	8260B	2/27/15 12:19	MSC	P5B0514
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00038	1	8260B	2/27/15 12:19	MSC	P5B0514
Tetrachloroethylene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/27/15 12:19	MSC	P5B0514
Toluene	BRL	mg/kg dry	0.0055	0.00031	1	8260B	2/27/15 12:19	MSC	P5B0514
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	2/27/15 12:19	MSC	P5B0514
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	2/27/15 12:19	MSC	P5B0514
Trichloroethylene	BRL	mg/kg dry	0.0055	0.00035	1	8260B	2/27/15 12:19	MSC	P5B0514
Trichlorofluoromethane	BRL	mg/kg dry	0.0055	0.00035	1	8260B	2/27/15 12:19	MSC	P5B0514
Vinyl acetate	BRL	mg/kg dry	0.027	0.00075	1	8260B	2/27/15 12:19	MSC	P5B0514
Vinyl chloride	BRL	mg/kg dry	0.0055	0.00026	1	8260B	2/27/15 12:19	MSC	P5B0514
Xylenes, total	BRL	mg/kg dry	0.016	0.0010	1	8260B	2/27/15 12:19	MSC	P5B0514

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*97 %*	*70-130*
Dibromofluoromethane	*96 %*	*84-123*
Toluene-d8	*96 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.9	0.19	100	MADEP VPH	3/2/15 20:15	ANG	P5C0018
C9-C12 Aliphatics	BRL	mg/kg dry	4.9	0.44	100	MADEP VPH	3/2/15 20:15	ANG	P5C0018
C9-C10 Aromatics	BRL	mg/kg dry	4.9	0.042	100	MADEP VPH	3/2/15 20:15	ANG	P5C0018

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*119 %*	*70-130*
2,5-Dibromotoluene (FID)	*123 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis B2
Prism Sample ID: 5020437-02
Prism Work Order: 5020437
Time Collected: 02/24/15 16:30
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	7.0	1.5	50	*8015C	2/28/15 0:13	ANG	P5B0520
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*110 %*		*50-137*	
General Chemistry Parameters									
% Solids	**63.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0070	0.00058	1	8260B	2/27/15 12:43	MSC	P5B0514
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0070	0.00034	1	8260B	2/27/15 12:43	MSC	P5B0514
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0070	0.00047	1	8260B	2/27/15 12:43	MSC	P5B0514
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0070	0.00062	1	8260B	2/27/15 12:43	MSC	P5B0514
1,1-Dichloroethane	BRL	mg/kg dry	0.0070	0.00019	1	8260B	2/27/15 12:43	MSC	P5B0514
1,1-Dichloroethylene	BRL	mg/kg dry	0.0070	0.00031	1	8260B	2/27/15 12:43	MSC	P5B0514
1,1-Dichloropropylene	BRL	mg/kg dry	0.0070	0.00038	1	8260B	2/27/15 12:43	MSC	P5B0514
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0070	0.00040	1	8260B	2/27/15 12:43	MSC	P5B0514
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0070	0.00089	1	8260B	2/27/15 12:43	MSC	P5B0514
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0070	0.00052	1	8260B	2/27/15 12:43	MSC	P5B0514
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0070	0.00054	1	8260B	2/27/15 12:43	MSC	P5B0514
1,2-Dibromoethane	BRL	mg/kg dry	0.0070	0.00028	1	8260B	2/27/15 12:43	MSC	P5B0514
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0070	0.00033	1	8260B	2/27/15 12:43	MSC	P5B0514
1,2-Dichloroethane	BRL	mg/kg dry	0.0070	0.00042	1	8260B	2/27/15 12:43	MSC	P5B0514
1,2-Dichloropropane	BRL	mg/kg dry	0.0070	0.00043	1	8260B	2/27/15 12:43	MSC	P5B0514
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0070	0.00053	1	8260B	2/27/15 12:43	MSC	P5B0514
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0070	0.00046	1	8260B	2/27/15 12:43	MSC	P5B0514
1,3-Dichloropropane	BRL	mg/kg dry	0.0070	0.00035	1	8260B	2/27/15 12:43	MSC	P5B0514
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0070	0.00028	1	8260B	2/27/15 12:43	MSC	P5B0514
2,2-Dichloropropane	BRL	mg/kg dry	0.0070	0.00033	1	8260B	2/27/15 12:43	MSC	P5B0514
2-Chlorotoluene	BRL	mg/kg dry	0.0070	0.00036	1	8260B	2/27/15 12:43	MSC	P5B0514
4-Chlorotoluene	BRL	mg/kg dry	0.0070	0.00042	1	8260B	2/27/15 12:43	MSC	P5B0514
4-Isopropyltoluene	BRL	mg/kg dry	0.0070	0.00034	1	8260B	2/27/15 12:43	MSC	P5B0514
Acetone	BRL	mg/kg dry	0.070	0.0017	1	8260B	2/27/15 12:43	MSC	P5B0514
Benzene	BRL	mg/kg dry	0.0042	0.00041	1	8260B	2/27/15 12:43	MSC	P5B0514
Bromobenzene	BRL	mg/kg dry	0.0070	0.00058	1	8260B	2/27/15 12:43	MSC	P5B0514
Bromochloromethane	BRL	mg/kg dry	0.0070	0.00039	1	8260B	2/27/15 12:43	MSC	P5B0514
Bromodichloromethane	BRL	mg/kg dry	0.0070	0.00039	1	8260B	2/27/15 12:43	MSC	P5B0514
Bromoform	BRL	mg/kg dry	0.0070	0.00080	1	8260B	2/27/15 12:43	MSC	P5B0514
Bromomethane	BRL	mg/kg dry	0.014	0.00086	1	8260B	2/27/15 12:43	MSC	P5B0514
Carbon Tetrachloride	BRL	mg/kg dry	0.0070	0.00035	1	8260B	2/27/15 12:43	MSC	P5B0514
Chlorobenzene	BRL	mg/kg dry	0.0070	0.00037	1	8260B	2/27/15 12:43	MSC	P5B0514
Chloroethane	BRL	mg/kg dry	0.014	0.00058	1	8260B	2/27/15 12:43	MSC	P5B0514
Chloroform	BRL	mg/kg dry	0.0070	0.00051	1	8260B	2/27/15 12:43	MSC	P5B0514
Chloromethane	BRL	mg/kg dry	0.0070	0.00047	1	8260B	2/27/15 12:43	MSC	P5B0514

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis B2
Prism Sample ID: 5020437-02
Prism Work Order: 5020437
Time Collected: 02/24/15 16:30
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0070	0.00030	1	8260B	2/27/15 12:43	MSC	P5B0514
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0070	0.00024	1	8260B	2/27/15 12:43	MSC	P5B0514
Dibromochloromethane	BRL	mg/kg dry	0.0070	0.00029	1	8260B	2/27/15 12:43	MSC	P5B0514
Dichlorodifluoromethane	BRL	mg/kg dry	0.0070	0.00032	1	8260B	2/27/15 12:43	MSC	P5B0514
Ethanol	BRL	mg/kg dry	0.35	0.14	1	8260B	2/27/15 12:43	MSC	P5B0514
Ethylbenzene	BRL	mg/kg dry	0.0070	0.00027	1	8260B	2/27/15 12:43	MSC	P5B0514
Isopropyl Ether	BRL	mg/kg dry	0.0070	0.00029	1	8260B	2/27/15 12:43	MSC	P5B0514
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0070	0.00041	1	8260B	2/27/15 12:43	MSC	P5B0514
m,p-Xylenes	BRL	mg/kg dry	0.014	0.00065	1	8260B	2/27/15 12:43	MSC	P5B0514
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.070	0.00063	1	8260B	2/27/15 12:43	MSC	P5B0514
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.14	0.00063	1	8260B	2/27/15 12:43	MSC	P5B0514
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.070	0.00060	1	8260B	2/27/15 12:43	MSC	P5B0514
Methylene Chloride	BRL	mg/kg dry	0.0070	0.00039	1	8260B	2/27/15 12:43	MSC	P5B0514
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.014	0.00022	1	8260B	2/27/15 12:43	MSC	P5B0514
Naphthalene	BRL	mg/kg dry	0.014	0.00022	1	8260B	2/27/15 12:43	MSC	P5B0514
n-Butylbenzene	BRL	mg/kg dry	0.0070	0.00036	1	8260B	2/27/15 12:43	MSC	P5B0514
n-Propylbenzene	BRL	mg/kg dry	0.0070	0.00042	1	8260B	2/27/15 12:43	MSC	P5B0514
o-Xylene	BRL	mg/kg dry	0.0070	0.00029	1	8260B	2/27/15 12:43	MSC	P5B0514
sec-Butylbenzene	BRL	mg/kg dry	0.0070	0.00034	1	8260B	2/27/15 12:43	MSC	P5B0514
Styrene	BRL	mg/kg dry	0.0070	0.00042	1	8260B	2/27/15 12:43	MSC	P5B0514
tert-Amyl Alcohol	BRL	mg/kg dry	0.56	0.0058	1	8260B	2/27/15 12:43	MSC	P5B0514
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.14	0.00060	1	8260B	2/27/15 12:43	MSC	P5B0514
tert-Butyl Alcohol	BRL	mg/kg dry	0.28	0.00049	1	8260B	2/27/15 12:43	MSC	P5B0514
tert-Butyl Formate	BRL	mg/kg dry	0.56	0.00070	1	8260B	2/27/15 12:43	MSC	P5B0514
tert-Butylbenzene	BRL	mg/kg dry	0.0070	0.00024	1	8260B	2/27/15 12:43	MSC	P5B0514
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.14	0.00049	1	8260B	2/27/15 12:43	MSC	P5B0514
Tetrachloroethylene	BRL	mg/kg dry	0.0070	0.00033	1	8260B	2/27/15 12:43	MSC	P5B0514
Toluene	BRL	mg/kg dry	0.0070	0.00040	1	8260B	2/27/15 12:43	MSC	P5B0514
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0070	0.00042	1	8260B	2/27/15 12:43	MSC	P5B0514
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0070	0.00037	1	8260B	2/27/15 12:43	MSC	P5B0514
Trichloroethylene	BRL	mg/kg dry	0.0070	0.00045	1	8260B	2/27/15 12:43	MSC	P5B0514
Trichlorofluoromethane	BRL	mg/kg dry	0.0070	0.00045	1	8260B	2/27/15 12:43	MSC	P5B0514
Vinyl acetate	BRL	mg/kg dry	0.035	0.00096	1	8260B	2/27/15 12:43	MSC	P5B0514
Vinyl chloride	BRL	mg/kg dry	0.0070	0.00034	1	8260B	2/27/15 12:43	MSC	P5B0514
Xylenes, total	BRL	mg/kg dry	0.021	0.0013	1	8260B	2/27/15 12:43	MSC	P5B0514

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*101 %*	*70-130*
Dibromofluoromethane	*100 %*	*84-123*
Toluene-d8	*98 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-5
Prism Sample ID: 5020437-03
Prism Work Order: 5020437
Time Collected: 02/24/15 17:00
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.6	1.2	50	*8015C	2/28/15 0:41	ANG	P5B0520
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*96 %*		*50-137*	
General Chemistry Parameters									
% Solids	**85.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0057	0.00047	1	8260B	2/27/15 13:07	MSC	P5B0514
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0057	0.00028	1	8260B	2/27/15 13:07	MSC	P5B0514
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0057	0.00039	1	8260B	2/27/15 13:07	MSC	P5B0514
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0057	0.00051	1	8260B	2/27/15 13:07	MSC	P5B0514
1,1-Dichloroethane	BRL	mg/kg dry	0.0057	0.00016	1	8260B	2/27/15 13:07	MSC	P5B0514
1,1-Dichloroethylene	BRL	mg/kg dry	0.0057	0.00025	1	8260B	2/27/15 13:07	MSC	P5B0514
1,1-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00031	1	8260B	2/27/15 13:07	MSC	P5B0514
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0057	0.00033	1	8260B	2/27/15 13:07	MSC	P5B0514
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0057	0.00073	1	8260B	2/27/15 13:07	MSC	P5B0514
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0057	0.00043	1	8260B	2/27/15 13:07	MSC	P5B0514
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0057	0.00044	1	8260B	2/27/15 13:07	MSC	P5B0514
1,2-Dibromoethane	BRL	mg/kg dry	0.0057	0.00023	1	8260B	2/27/15 13:07	MSC	P5B0514
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	2/27/15 13:07	MSC	P5B0514
1,2-Dichloroethane	BRL	mg/kg dry	0.0057	0.00034	1	8260B	2/27/15 13:07	MSC	P5B0514
1,2-Dichloropropane	BRL	mg/kg dry	0.0057	0.00036	1	8260B	2/27/15 13:07	MSC	P5B0514
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0057	0.00043	1	8260B	2/27/15 13:07	MSC	P5B0514
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00038	1	8260B	2/27/15 13:07	MSC	P5B0514
1,3-Dichloropropane	BRL	mg/kg dry	0.0057	0.00029	1	8260B	2/27/15 13:07	MSC	P5B0514
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00023	1	8260B	2/27/15 13:07	MSC	P5B0514
2,2-Dichloropropane	BRL	mg/kg dry	0.0057	0.00027	1	8260B	2/27/15 13:07	MSC	P5B0514
2-Chlorotoluene	BRL	mg/kg dry	0.0057	0.00030	1	8260B	2/27/15 13:07	MSC	P5B0514
4-Chlorotoluene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	2/27/15 13:07	MSC	P5B0514
4-Isopropyltoluene	BRL	mg/kg dry	0.0057	0.00028	1	8260B	2/27/15 13:07	MSC	P5B0514
Acetone	BRL	mg/kg dry	0.057	0.0014	1	8260B	2/27/15 13:07	MSC	P5B0514
Benzene	BRL	mg/kg dry	0.0034	0.00033	1	8260B	2/27/15 13:07	MSC	P5B0514
Bromobenzene	BRL	mg/kg dry	0.0057	0.00048	1	8260B	2/27/15 13:07	MSC	P5B0514
Bromochloromethane	BRL	mg/kg dry	0.0057	0.00032	1	8260B	2/27/15 13:07	MSC	P5B0514
Bromodichloromethane	BRL	mg/kg dry	0.0057	0.00032	1	8260B	2/27/15 13:07	MSC	P5B0514
Bromoform	BRL	mg/kg dry	0.0057	0.00065	1	8260B	2/27/15 13:07	MSC	P5B0514
Bromomethane	BRL	mg/kg dry	0.011	0.00071	1	8260B	2/27/15 13:07	MSC	P5B0514
Carbon Tetrachloride	BRL	mg/kg dry	0.0057	0.00029	1	8260B	2/27/15 13:07	MSC	P5B0514
Chlorobenzene	BRL	mg/kg dry	0.0057	0.00030	1	8260B	2/27/15 13:07	MSC	P5B0514
Chloroethane	BRL	mg/kg dry	0.011	0.00048	1	8260B	2/27/15 13:07	MSC	P5B0514
Chloroform	BRL	mg/kg dry	0.0057	0.00041	1	8260B	2/27/15 13:07	MSC	P5B0514
Chloromethane	BRL	mg/kg dry	0.0057	0.00039	1	8260B	2/27/15 13:07	MSC	P5B0514

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-5
Prism Sample ID: 5020437-03
Prism Work Order: 5020437
Time Collected: 02/24/15 17:00
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0057	0.00024	1	8260B	2/27/15 13:07	MSC	P5B0514
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00019	1	8260B	2/27/15 13:07	MSC	P5B0514
Dibromochloromethane	BRL	mg/kg dry	0.0057	0.00024	1	8260B	2/27/15 13:07	MSC	P5B0514
Dichlorodifluoromethane	BRL	mg/kg dry	0.0057	0.00026	1	8260B	2/27/15 13:07	MSC	P5B0514
Ethanol	BRL	mg/kg dry	0.29	0.11	1	8260B	2/27/15 13:07	MSC	P5B0514
Ethylbenzene	BRL	mg/kg dry	0.0057	0.00022	1	8260B	2/27/15 13:07	MSC	P5B0514
Isopropyl Ether	BRL	mg/kg dry	0.0057	0.00023	1	8260B	2/27/15 13:07	MSC	P5B0514
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0057	0.00034	1	8260B	2/27/15 13:07	MSC	P5B0514
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00053	1	8260B	2/27/15 13:07	MSC	P5B0514
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.057	0.00052	1	8260B	2/27/15 13:07	MSC	P5B0514
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00052	1	8260B	2/27/15 13:07	MSC	P5B0514
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.057	0.00049	1	8260B	2/27/15 13:07	MSC	P5B0514
Methylene Chloride	BRL	mg/kg dry	0.0057	0.00032	1	8260B	2/27/15 13:07	MSC	P5B0514
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00018	1	8260B	2/27/15 13:07	MSC	P5B0514
Naphthalene	BRL	mg/kg dry	0.011	0.00018	1	8260B	2/27/15 13:07	MSC	P5B0514
n-Butylbenzene	BRL	mg/kg dry	0.0057	0.00029	1	8260B	2/27/15 13:07	MSC	P5B0514
n-Propylbenzene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	2/27/15 13:07	MSC	P5B0514
o-Xylene	BRL	mg/kg dry	0.0057	0.00024	1	8260B	2/27/15 13:07	MSC	P5B0514
sec-Butylbenzene	BRL	mg/kg dry	0.0057	0.00028	1	8260B	2/27/15 13:07	MSC	P5B0514
Styrene	BRL	mg/kg dry	0.0057	0.00035	1	8260B	2/27/15 13:07	MSC	P5B0514
tert-Amyl Alcohol	BRL	mg/kg dry	0.46	0.0048	1	8260B	2/27/15 13:07	MSC	P5B0514
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00049	1	8260B	2/27/15 13:07	MSC	P5B0514
tert-Butyl Alcohol	BRL	mg/kg dry	0.23	0.00040	1	8260B	2/27/15 13:07	MSC	P5B0514
tert-Butyl Formate	BRL	mg/kg dry	0.46	0.00057	1	8260B	2/27/15 13:07	MSC	P5B0514
tert-Butylbenzene	BRL	mg/kg dry	0.0057	0.00019	1	8260B	2/27/15 13:07	MSC	P5B0514
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00040	1	8260B	2/27/15 13:07	MSC	P5B0514
Tetrachloroethylene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	2/27/15 13:07	MSC	P5B0514
Toluene	BRL	mg/kg dry	0.0057	0.00033	1	8260B	2/27/15 13:07	MSC	P5B0514
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	2/27/15 13:07	MSC	P5B0514
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00030	1	8260B	2/27/15 13:07	MSC	P5B0514
Trichloroethylene	BRL	mg/kg dry	0.0057	0.00037	1	8260B	2/27/15 13:07	MSC	P5B0514
Trichlorofluoromethane	BRL	mg/kg dry	0.0057	0.00037	1	8260B	2/27/15 13:07	MSC	P5B0514
Vinyl acetate	BRL	mg/kg dry	0.029	0.00079	1	8260B	2/27/15 13:07	MSC	P5B0514
Vinyl chloride	BRL	mg/kg dry	0.0057	0.00028	1	8260B	2/27/15 13:07	MSC	P5B0514
Xylenes, total	BRL	mg/kg dry	0.017	0.0011	1	8260B	2/27/15 13:07	MSC	P5B0514

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*97 %*	*70-130*
Dibromofluoromethane	*96 %*	*84-123*
Toluene-d8	*95 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-6
Prism Sample ID: 5020437-04
Prism Work Order: 5020437
Time Collected: 02/24/15 15:15
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	7.7	1.6	50	*8015C	2/28/15 1:09	ANG	P5B0520
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*104 %*		*50-137*	
General Chemistry Parameters									
% Solids	**62.4**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0080	0.00065	1	8260B	2/27/15 13:30	MSC	P5B0514
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0080	0.00039	1	8260B	2/27/15 13:30	MSC	P5B0514
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0080	0.00054	1	8260B	2/27/15 13:30	MSC	P5B0514
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0080	0.00071	1	8260B	2/27/15 13:30	MSC	P5B0514
1,1-Dichloroethane	BRL	mg/kg dry	0.0080	0.00022	1	8260B	2/27/15 13:30	MSC	P5B0514
1,1-Dichloroethylene	BRL	mg/kg dry	0.0080	0.00035	1	8260B	2/27/15 13:30	MSC	P5B0514
1,1-Dichloropropylene	BRL	mg/kg dry	0.0080	0.00044	1	8260B	2/27/15 13:30	MSC	P5B0514
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0080	0.00045	1	8260B	2/27/15 13:30	MSC	P5B0514
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0080	0.0010	1	8260B	2/27/15 13:30	MSC	P5B0514
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0080	0.00059	1	8260B	2/27/15 13:30	MSC	P5B0514
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0080	0.00061	1	8260B	2/27/15 13:30	MSC	P5B0514
1,2-Dibromoethane	BRL	mg/kg dry	0.0080	0.00032	1	8260B	2/27/15 13:30	MSC	P5B0514
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0080	0.00037	1	8260B	2/27/15 13:30	MSC	P5B0514
1,2-Dichloroethane	BRL	mg/kg dry	0.0080	0.00047	1	8260B	2/27/15 13:30	MSC	P5B0514
1,2-Dichloropropane	BRL	mg/kg dry	0.0080	0.00049	1	8260B	2/27/15 13:30	MSC	P5B0514
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0080	0.00060	1	8260B	2/27/15 13:30	MSC	P5B0514
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0080	0.00053	1	8260B	2/27/15 13:30	MSC	P5B0514
1,3-Dichloropropane	BRL	mg/kg dry	0.0080	0.00040	1	8260B	2/27/15 13:30	MSC	P5B0514
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0080	0.00031	1	8260B	2/27/15 13:30	MSC	P5B0514
2,2-Dichloropropane	BRL	mg/kg dry	0.0080	0.00038	1	8260B	2/27/15 13:30	MSC	P5B0514
2-Chlorotoluene	BRL	mg/kg dry	0.0080	0.00041	1	8260B	2/27/15 13:30	MSC	P5B0514
4-Chlorotoluene	BRL	mg/kg dry	0.0080	0.00047	1	8260B	2/27/15 13:30	MSC	P5B0514
4-Isopropyltoluene	BRL	mg/kg dry	0.0080	0.00038	1	8260B	2/27/15 13:30	MSC	P5B0514
Acetone	BRL	mg/kg dry	0.080	0.0019	1	8260B	2/27/15 13:30	MSC	P5B0514
Benzene	BRL	mg/kg dry	0.0048	0.00046	1	8260B	2/27/15 13:30	MSC	P5B0514
Bromobenzene	BRL	mg/kg dry	0.0080	0.00066	1	8260B	2/27/15 13:30	MSC	P5B0514
Bromochloromethane	BRL	mg/kg dry	0.0080	0.00044	1	8260B	2/27/15 13:30	MSC	P5B0514
Bromodichloromethane	BRL	mg/kg dry	0.0080	0.00044	1	8260B	2/27/15 13:30	MSC	P5B0514
Bromoform	BRL	mg/kg dry	0.0080	0.00090	1	8260B	2/27/15 13:30	MSC	P5B0514
Bromomethane	BRL	mg/kg dry	0.016	0.00098	1	8260B	2/27/15 13:30	MSC	P5B0514
Carbon Tetrachloride	BRL	mg/kg dry	0.0080	0.00040	1	8260B	2/27/15 13:30	MSC	P5B0514
Chlorobenzene	BRL	mg/kg dry	0.0080	0.00042	1	8260B	2/27/15 13:30	MSC	P5B0514
Chloroethane	BRL	mg/kg dry	0.016	0.00066	1	8260B	2/27/15 13:30	MSC	P5B0514
Chloroform	BRL	mg/kg dry	0.0080	0.00057	1	8260B	2/27/15 13:30	MSC	P5B0514
Chloromethane	BRL	mg/kg dry	0.0080	0.00054	1	8260B	2/27/15 13:30	MSC	P5B0514

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-6
Prism Sample ID: 5020437-04
Prism Work Order: 5020437
Time Collected: 02/24/15 15:15
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0080	0.00034	1	8260B	2/27/15 13:30	MSC	P5B0514
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0080	0.00027	1	8260B	2/27/15 13:30	MSC	P5B0514
Dibromochloromethane	BRL	mg/kg dry	0.0080	0.00033	1	8260B	2/27/15 13:30	MSC	P5B0514
Dichlorodifluoromethane	BRL	mg/kg dry	0.0080	0.00036	1	8260B	2/27/15 13:30	MSC	P5B0514
Ethanol	BRL	mg/kg dry	0.40	0.16	1	8260B	2/27/15 13:30	MSC	P5B0514
Ethylbenzene	BRL	mg/kg dry	0.0080	0.00031	1	8260B	2/27/15 13:30	MSC	P5B0514
Isopropyl Ether	BRL	mg/kg dry	0.0080	0.00032	1	8260B	2/27/15 13:30	MSC	P5B0514
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0080	0.00047	1	8260B	2/27/15 13:30	MSC	P5B0514
m,p-Xylenes	BRL	mg/kg dry	0.016	0.00073	1	8260B	2/27/15 13:30	MSC	P5B0514
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.080	0.00072	1	8260B	2/27/15 13:30	MSC	P5B0514
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.16	0.00072	1	8260B	2/27/15 13:30	MSC	P5B0514
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.080	0.00068	1	8260B	2/27/15 13:30	MSC	P5B0514
Methylene Chloride	BRL	mg/kg dry	0.0080	0.00045	1	8260B	2/27/15 13:30	MSC	P5B0514
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.016	0.00025	1	8260B	2/27/15 13:30	MSC	P5B0514
Naphthalene	BRL	mg/kg dry	0.016	0.00025	1	8260B	2/27/15 13:30	MSC	P5B0514
n-Butylbenzene	BRL	mg/kg dry	0.0080	0.00041	1	8260B	2/27/15 13:30	MSC	P5B0514
n-Propylbenzene	BRL	mg/kg dry	0.0080	0.00047	1	8260B	2/27/15 13:30	MSC	P5B0514
o-Xylene	BRL	mg/kg dry	0.0080	0.00033	1	8260B	2/27/15 13:30	MSC	P5B0514
sec-Butylbenzene	BRL	mg/kg dry	0.0080	0.00039	1	8260B	2/27/15 13:30	MSC	P5B0514
Styrene	BRL	mg/kg dry	0.0080	0.00048	1	8260B	2/27/15 13:30	MSC	P5B0514
tert-Amyl Alcohol	BRL	mg/kg dry	0.64	0.0066	1	8260B	2/27/15 13:30	MSC	P5B0514
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.16	0.00068	1	8260B	2/27/15 13:30	MSC	P5B0514
tert-Butyl Alcohol	BRL	mg/kg dry	0.32	0.00056	1	8260B	2/27/15 13:30	MSC	P5B0514
tert-Butyl Formate	BRL	mg/kg dry	0.64	0.00079	1	8260B	2/27/15 13:30	MSC	P5B0514
tert-Butylbenzene	BRL	mg/kg dry	0.0080	0.00027	1	8260B	2/27/15 13:30	MSC	P5B0514
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.16	0.00056	1	8260B	2/27/15 13:30	MSC	P5B0514
Tetrachloroethylene	BRL	mg/kg dry	0.0080	0.00038	1	8260B	2/27/15 13:30	MSC	P5B0514
Toluene	BRL	mg/kg dry	0.0080	0.00046	1	8260B	2/27/15 13:30	MSC	P5B0514
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0080	0.00048	1	8260B	2/27/15 13:30	MSC	P5B0514
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0080	0.00042	1	8260B	2/27/15 13:30	MSC	P5B0514
Trichloroethylene	BRL	mg/kg dry	0.0080	0.00052	1	8260B	2/27/15 13:30	MSC	P5B0514
Trichlorofluoromethane	BRL	mg/kg dry	0.0080	0.00051	1	8260B	2/27/15 13:30	MSC	P5B0514
Vinyl acetate	BRL	mg/kg dry	0.040	0.0011	1	8260B	2/27/15 13:30	MSC	P5B0514
Vinyl chloride	BRL	mg/kg dry	0.0080	0.00039	1	8260B	2/27/15 13:30	MSC	P5B0514
Xylenes, total	BRL	mg/kg dry	0.024	0.0015	1	8260B	2/27/15 13:30	MSC	P5B0514

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*75 %*	*70-130*	
Dibromofluoromethane	*75 %*	*84-123*	*SR*
Toluene-d8	*74 %*	*76-129*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020437-05
Prism Work Order: 5020437
Time Collected: 02/24/15 00:00
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	*8260B	3/4/15 17:11	VHL	P5C0087
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	*8260B	3/4/15 17:11	VHL	P5C0087
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	3/4/15 17:11	VHL	P5C0087
2-Chloroethyl Vinyl Ether	BRL A	ug/L	5.0	0.37	1	*8260B	3/4/15 17:11	VHL	P5C0087
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	*8260B	3/4/15 17:11	VHL	P5C0087
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	*8260B	3/4/15 17:11	VHL	P5C0087
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	*8260B	3/4/15 17:11	VHL	P5C0087
Acetone	BRL	ug/L	5.0	0.31	1	*8260B	3/4/15 17:11	VHL	P5C0087
Acrolein	BRL	ug/L	20	0.20	1	*8260B	3/4/15 17:11	VHL	P5C0087
Acrylonitrile	BRL	ug/L	20	0.20	1	*8260B	3/4/15 17:11	VHL	P5C0087
Benzene	BRL	ug/L	0.50	0.048	1	*8260B	3/4/15 17:11	VHL	P5C0087
Bromobenzene	BRL	ug/L	0.50	0.057	1	*8260B	3/4/15 17:11	VHL	P5C0087
Bromochloromethane	BRL	ug/L	0.50	0.14	1	*8260B	3/4/15 17:11	VHL	P5C0087
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	3/4/15 17:11	VHL	P5C0087
Bromoform	BRL	ug/L	1.0	0.040	1	*8260B	3/4/15 17:11	VHL	P5C0087
Bromomethane	BRL	ug/L	1.0	0.18	1	*8260B	3/4/15 17:11	VHL	P5C0087
Carbon disulfide	BRL	ug/L	5.0	0.075	1	*8260B	3/4/15 17:11	VHL	P5C0087
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	*8260B	3/4/15 17:11	VHL	P5C0087
Chlorobenzene	BRL	ug/L	0.50	0.062	1	*8260B	3/4/15 17:11	VHL	P5C0087
Chloroethane	BRL	ug/L	0.50	0.22	1	*8260B	3/4/15 17:11	VHL	P5C0087
Chloroform	BRL	ug/L	0.50	0.076	1	*8260B	3/4/15 17:11	VHL	P5C0087
Chloromethane	BRL	ug/L	0.50	0.079	1	*8260B	3/4/15 17:11	VHL	P5C0087
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	*8260B	3/4/15 17:11	VHL	P5C0087
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	*8260B	3/4/15 17:11	VHL	P5C0087

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020437-05
Prism Work Order: 5020437
Time Collected: 02/24/15 00:00
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	*8260B	3/4/15 17:11	VHL	P5C0087
Dibromomethane	BRL	ug/L	0.50	0.065	1	*8260B	3/4/15 17:11	VHL	P5C0087
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	3/4/15 17:11	VHL	P5C0087
Ethylbenzene	BRL	ug/L	0.50	0.061	1	*8260B	3/4/15 17:11	VHL	P5C0087
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	*8260B	3/4/15 17:11	VHL	P5C0087
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	*8260B	3/4/15 17:11	VHL	P5C0087
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	*8260B	3/4/15 17:11	VHL	P5C0087
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	*8260B	3/4/15 17:11	VHL	P5C0087
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	*8260B	3/4/15 17:11	VHL	P5C0087
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	*8260B	3/4/15 17:11	VHL	P5C0087
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	*8260B	3/4/15 17:11	VHL	P5C0087
Methylene Chloride	**1.0**	**ug/L**	**1.0**	**0.083**	**1**	***8260B**	**3/4/15 17:11**	**VHL**	**P5C0087**
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	*8260B	3/4/15 17:11	VHL	P5C0087
Naphthalene	BRL	ug/L	1.0	0.19	1	*8260B	3/4/15 17:11	VHL	P5C0087
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	*8260B	3/4/15 17:11	VHL	P5C0087
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	3/4/15 17:11	VHL	P5C0087
o-Xylene	BRL	ug/L	0.50	0.044	1	*8260B	3/4/15 17:11	VHL	P5C0087
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	*8260B	3/4/15 17:11	VHL	P5C0087
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	3/4/15 17:11	VHL	P5C0087
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	*8260B	3/4/15 17:11	VHL	P5C0087
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	*8260B	3/4/15 17:11	VHL	P5C0087
Toluene	BRL	ug/L	0.50	0.044	1	*8260B	3/4/15 17:11	VHL	P5C0087
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	*8260B	3/4/15 17:11	VHL	P5C0087
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	*8260B	3/4/15 17:11	VHL	P5C0087
Trichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	3/4/15 17:11	VHL	P5C0087
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	*8260B	3/4/15 17:11	VHL	P5C0087
Vinyl acetate	BRL	ug/L	2.0	0.060	1	*8260B	3/4/15 17:11	VHL	P5C0087
Vinyl chloride	BRL	ug/L	0.50	0.097	1	*8260B	3/4/15 17:11	VHL	P5C0087

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
Blank (P5B0514-BLK1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethanol	BRL	0.25	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
Blank (P5B0514-BLK1)			Prepared & Analyzed: 02/27/15							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Amyl Alcohol	BRL	0.40	mg/kg wet							
tert-Amyl Methyl Ether	BRL	0.10	mg/kg wet							
tert-Butyl Alcohol	BRL	0.20	mg/kg wet							
tert-Butyl Formate	BRL	0.40	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
tert-Butyl Ethyl Ether	BRL	0.10	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0516*		*mg/kg wet*	*0.05000*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0502*		*mg/kg wet*	*0.05000*		*100*	*84-123*			
Surrogate: Toluene-d8	*0.0501*		*mg/kg wet*	*0.05000*		*100*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS (P5B0514-BS1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	0.0536	0.0050	mg/kg wet	0.05000		107	72-115			
1,1,1-Trichloroethane	0.0514	0.0050	mg/kg wet	0.05000		103	67-131			
1,1,2,2-Tetrachloroethane	0.0532	0.0050	mg/kg wet	0.05000		106	56-126			
1,1,2-Trichloroethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-133			
1,1-Dichloroethane	0.0504	0.0050	mg/kg wet	0.05000		101	74-127			
1,1-Dichloroethylene	0.0519	0.0050	mg/kg wet	0.05000		104	67-149			
1,1-Dichloropropylene	0.0549	0.0050	mg/kg wet	0.05000		110	71-130			
1,2,3-Trichlorobenzene	0.0547	0.0050	mg/kg wet	0.05000		109	68-130			
1,2,3-Trichloropropane	0.0528	0.0050	mg/kg wet	0.05000		106	60-137			
1,2,4-Trichlorobenzene	0.0550	0.0050	mg/kg wet	0.05000		110	66-125			
1,2,4-Trimethylbenzene	0.0561	0.0050	mg/kg wet	0.05000		112	69-129			
1,2-Dibromoethane	0.0539	0.0050	mg/kg wet	0.05000		108	70-132			
1,2-Dichlorobenzene	0.0531	0.0050	mg/kg wet	0.05000		106	72-123			
1,2-Dichloroethane	0.0491	0.0050	mg/kg wet	0.05000		98	68-128			
1,2-Dichloropropane	0.0513	0.0050	mg/kg wet	0.05000		103	73-130			
1,3,5-Trimethylbenzene	0.0563	0.0050	mg/kg wet	0.05000		113	69-128			
1,3-Dichlorobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	71-120			
1,3-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	75-124			
1,4-Dichlorobenzene	0.0536	0.0050	mg/kg wet	0.05000		107	71-123			
2,2-Dichloropropane	0.0534	0.0050	mg/kg wet	0.05000		107	50-142			
2-Chlorotoluene	0.0546	0.0050	mg/kg wet	0.05000		109	67-124			
4-Chlorotoluene	0.0544	0.0050	mg/kg wet	0.05000		109	71-126			
4-Isopropyltoluene	0.0564	0.0050	mg/kg wet	0.05000		113	68-129			
Acetone	0.0951	0.050	mg/kg wet	0.1000		95	29-198			
Benzene	0.0539	0.0030	mg/kg wet	0.05000		108	74-127			
Bromobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	73-125			
Bromochloromethane	0.0510	0.0050	mg/kg wet	0.05000		102	72-134			
Bromodichloromethane	0.0488	0.0050	mg/kg wet	0.05000		98	75-122			
Bromoform	0.0488	0.0050	mg/kg wet	0.05000		97	66-135			
Bromomethane	0.0540	0.010	mg/kg wet	0.05000		108	20-180			
Carbon Tetrachloride	0.0544	0.0050	mg/kg wet	0.05000		109	64-143			
Chlorobenzene	0.0529	0.0050	mg/kg wet	0.05000		106	74-118			
Chloroethane	0.0496	0.010	mg/kg wet	0.05000		99	33-149			
Chloroform	0.0471	0.0050	mg/kg wet	0.05000		94	73-127			
Chloromethane	0.0422	0.0050	mg/kg wet	0.05000		84	45-143			
cis-1,2-Dichloroethylene	0.0529	0.0050	mg/kg wet	0.05000		106	76-134			
cis-1,3-Dichloropropylene	0.0530	0.0050	mg/kg wet	0.05000		106	71-125			
Dibromochloromethane	0.0493	0.0050	mg/kg wet	0.05000		99	73-122			
Dichlorodifluoromethane	0.0324	0.0050	mg/kg wet	0.05000		65	26-146			
Ethanol	1.27	0.25	mg/kg wet	1.250		101	70-130			
Ethylbenzene	0.0545	0.0050	mg/kg wet	0.05000		109	74-128			
Isopropyl Ether	0.0457	0.0050	mg/kg wet	0.05000		91	59-159			
Isopropylbenzene (Cumene)	0.0572	0.0050	mg/kg wet	0.05000		114	68-126			
m,p-Xylenes	0.113	0.010	mg/kg wet	0.1000		113	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0572	0.050	mg/kg wet	0.05000		114	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0510	0.10	mg/kg wet	0.05000		102	63-149			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS (P5B0514-BS1)				Prepared & Analyzed: 02/27/15						
Methyl Isobutyl Ketone	0.0532	0.050	mg/kg wet	0.05000		106	57-162			
Methylene Chloride	0.0483	0.0050	mg/kg wet	0.05000		97	74-129			
Methyl-tert-Butyl Ether	0.0521	0.010	mg/kg wet	0.05000		104	70-130			
Naphthalene	0.0555	0.010	mg/kg wet	0.05000		111	57-157			
n-Butylbenzene	0.0583	0.0050	mg/kg wet	0.05000		117	65-135			
n-Propylbenzene	0.0564	0.0050	mg/kg wet	0.05000		113	67-130			
o-Xylene	0.0548	0.0050	mg/kg wet	0.05000		110	74-126			
sec-Butylbenzene	0.0572	0.0050	mg/kg wet	0.05000		114	66-131			
Styrene	0.0581	0.0050	mg/kg wet	0.05000		116	77-121			
tert-Amyl Alcohol	0.0568	0.40	mg/kg wet	0.05000		114	70-130			J
tert-Amyl Methyl Ether	0.108	0.10	mg/kg wet	0.1000		108	70-130			
tert-Butyl Alcohol	0.109	0.20	mg/kg wet	0.1000		109	70-130			J
tert-Butyl Formate	0.119	0.40	mg/kg wet	0.1000		119	70-130			J
tert-Butylbenzene	0.0555	0.0050	mg/kg wet	0.05000		111	67-132			
tert-Butyl Ethyl Ether	0.109	0.10	mg/kg wet	0.1000		109	70-130			
Tetrachloroethylene	0.0532	0.0050	mg/kg wet	0.05000		106	68-130			
Toluene	0.0528	0.0050	mg/kg wet	0.05000		106	71-129			
trans-1,2-Dichloroethylene	0.0524	0.0050	mg/kg wet	0.05000		105	73-132			
trans-1,3-Dichloropropylene	0.0541	0.0050	mg/kg wet	0.05000		108	68-123			
Trichloroethylene	0.0516	0.0050	mg/kg wet	0.05000		103	75-133			
Trichlorofluoromethane	0.0575	0.0050	mg/kg wet	0.05000		115	44-146			
Vinyl acetate	0.0520	0.025	mg/kg wet	0.05000		104	85-161			
Vinyl chloride	0.0447	0.0050	mg/kg wet	0.05000		89	48-147			
Xylenes, total	0.168	0.015	mg/kg wet	0.1500		112	74-126			
Surrogate: 4-Bromofluorobenzene	*0.0494*		*mg/kg wet*	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0487*		*mg/kg wet*	*0.05000*		*97*	*84-123*			
Surrogate: Toluene-d8	*0.0493*		*mg/kg wet*	*0.05000*		*99*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS Dup (P5B0514-BSD1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	0.0490	0.0050	mg/kg wet	0.05000		98	72-115	9	20	
1,1,1-Trichloroethane	0.0466	0.0050	mg/kg wet	0.05000		93	67-131	10	20	
1,1,2,2-Tetrachloroethane	0.0475	0.0050	mg/kg wet	0.05000		95	56-126	11	20	
1,1,2-Trichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-133	9	20	
1,1-Dichloroethane	0.0458	0.0050	mg/kg wet	0.05000		92	74-127	10	20	
1,1-Dichloroethylene	0.0465	0.0050	mg/kg wet	0.05000		93	67-149	11	20	
1,1-Dichloropropylene	0.0488	0.0050	mg/kg wet	0.05000		98	71-130	12	20	
1,2,3-Trichlorobenzene	0.0492	0.0050	mg/kg wet	0.05000		98	68-130	11	20	
1,2,3-Trichloropropane	0.0465	0.0050	mg/kg wet	0.05000		93	60-137	13	20	
1,2,4-Trichlorobenzene	0.0498	0.0050	mg/kg wet	0.05000		100	66-125	10	20	
1,2,4-Trimethylbenzene	0.0508	0.0050	mg/kg wet	0.05000		102	69-129	10	20	
1,2-Dibromoethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-132	9	20	
1,2-Dichlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	72-123	10	20	
1,2-Dichloroethane	0.0449	0.0050	mg/kg wet	0.05000		90	68-128	9	20	
1,2-Dichloropropane	0.0469	0.0050	mg/kg wet	0.05000		94	73-130	9	20	
1,3,5-Trimethylbenzene	0.0509	0.0050	mg/kg wet	0.05000		102	69-128	10	20	
1,3-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	71-120	9	20	
1,3-Dichloropropane	0.0470	0.0050	mg/kg wet	0.05000		94	75-124	9	20	
1,4-Dichlorobenzene	0.0483	0.0050	mg/kg wet	0.05000		97	71-123	10	20	
2,2-Dichloropropane	0.0471	0.0050	mg/kg wet	0.05000		94	50-142	13	20	
2-Chlorotoluene	0.0488	0.0050	mg/kg wet	0.05000		98	67-124	11	20	
4-Chlorotoluene	0.0490	0.0050	mg/kg wet	0.05000		98	71-126	10	20	
4-Isopropyltoluene	0.0502	0.0050	mg/kg wet	0.05000		100	68-129	12	20	
Acetone	0.0845	0.050	mg/kg wet	0.1000		84	29-198	12	20	
Benzene	0.0489	0.0030	mg/kg wet	0.05000		98	74-127	10	20	
Bromobenzene	0.0481	0.0050	mg/kg wet	0.05000		96	73-125	10	20	
Bromochloromethane	0.0467	0.0050	mg/kg wet	0.05000		93	72-134	9	20	
Bromodichloromethane	0.0445	0.0050	mg/kg wet	0.05000		89	75-122	9	20	
Bromoform	0.0440	0.0050	mg/kg wet	0.05000		88	66-135	10	20	
Bromomethane	0.0448	0.010	mg/kg wet	0.05000		90	20-180	19	20	
Carbon Tetrachloride	0.0490	0.0050	mg/kg wet	0.05000		98	64-143	10	20	
Chlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	74-118	10	20	
Chloroethane	0.0419	0.010	mg/kg wet	0.05000		84	33-149	17	20	
Chloroform	0.0430	0.0050	mg/kg wet	0.05000		86	73-127	9	20	
Chloromethane	0.0378	0.0050	mg/kg wet	0.05000		76	45-143	11	20	
cis-1,2-Dichloroethylene	0.0485	0.0050	mg/kg wet	0.05000		97	76-134	9	20	
cis-1,3-Dichloropropylene	0.0486	0.0050	mg/kg wet	0.05000		97	71-125	8	20	
Dibromochloromethane	0.0446	0.0050	mg/kg wet	0.05000		89	73-122	10	20	
Dichlorodifluoromethane	0.0288	0.0050	mg/kg wet	0.05000		58	26-146	12	20	
Ethanol	1.07	0.25	mg/kg wet	1.250		85	70-130	17	20	
Ethylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	74-128	11	20	
Isopropyl Ether	0.0422	0.0050	mg/kg wet	0.05000		84	59-159	8	20	
Isopropylbenzene (Cumene)	0.0512	0.0050	mg/kg wet	0.05000		102	68-126	11	20	
m,p-Xylenes	0.101	0.010	mg/kg wet	0.1000		101	75-124	10	20	
Methyl Butyl Ketone (2-Hexanone)	0.0509	0.050	mg/kg wet	0.05000		102	61-157	12	20	
Methyl Ethyl Ketone (2-Butanone)	0.0455	0.10	mg/kg wet	0.05000		91	63-149	11	20	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS Dup (P5B0514-BSD1)			Prepared & Analyzed: 02/27/15							
Methyl Isobutyl Ketone	0.0468	0.050	mg/kg wet	0.05000		94	57-162	13	20	J
Methylene Chloride	0.0437	0.0050	mg/kg wet	0.05000		87	74-129	10	20	
Methyl-tert-Butyl Ether	0.0480	0.010	mg/kg wet	0.05000		96	70-130	8	20	
Naphthalene	0.0496	0.010	mg/kg wet	0.05000		99	57-157	11	20	
n-Butylbenzene	0.0519	0.0050	mg/kg wet	0.05000		104	65-135	12	20	
n-Propylbenzene	0.0504	0.0050	mg/kg wet	0.05000		101	67-130	11	20	
o-Xylene	0.0497	0.0050	mg/kg wet	0.05000		99	74-126	10	20	
sec-Butylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	66-131	12	20	
Styrene	0.0528	0.0050	mg/kg wet	0.05000		106	77-121	10	20	
tert-Amyl Alcohol	0.0508	0.40	mg/kg wet	0.05000		102	70-130	11	20	J
tert-Amyl Methyl Ether	0.0997	0.10	mg/kg wet	0.1000		100	70-130	8	20	J
tert-Butyl Alcohol	0.101	0.20	mg/kg wet	0.1000		101	70-130	8	20	J
tert-Butyl Formate	0.109	0.40	mg/kg wet	0.1000		109	70-130	8	20	J
tert-Butylbenzene	0.0498	0.0050	mg/kg wet	0.05000		100	67-132	11	20	
tert-Butyl Ethyl Ether	0.101	0.10	mg/kg wet	0.1000		101	70-130	8	20	
Tetrachloroethylene	0.0479	0.0050	mg/kg wet	0.05000		96	68-130	10	20	
Toluene	0.0483	0.0050	mg/kg wet	0.05000		97	71-129	9	20	
trans-1,2-Dichloroethylene	0.0478	0.0050	mg/kg wet	0.05000		96	73-132	9	20	
trans-1,3-Dichloropropylene	0.0496	0.0050	mg/kg wet	0.05000		99	68-123	9	20	
Trichloroethylene	0.0466	0.0050	mg/kg wet	0.05000		93	75-133	10	20	
Trichlorofluoromethane	0.0510	0.0050	mg/kg wet	0.05000		102	44-146	12	20	
Vinyl acetate	0.0479	0.025	mg/kg wet	0.05000		96	85-161	8	20	
Vinyl chloride	0.0398	0.0050	mg/kg wet	0.05000		80	48-147	12	20	
Xylenes, total	0.151	0.015	mg/kg wet	0.1500		101	74-126	10	20	
Surrogate: 4-Bromofluorobenzene	*0.0457*		*mg/kg wet*	*0.05000*		*91*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0456*		*mg/kg wet*	*0.05000*		*91*	*84-123*			
Surrogate: Toluene-d8	*0.0462*		*mg/kg wet*	*0.05000*		*92*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
Matrix Spike (P5B0514-MS1)	**Source: 5020437-04**		Prepared & Analyzed: 02/27/15							
1,1,1,2-Tetrachloroethane	0.0337	0.0068	mg/kg dry	0.06835	BRL	49	60-120			MI
1,1,1-Trichloroethane	0.0363	0.0068	mg/kg dry	0.06835	BRL	53	52-139			
1,1,2,2-Tetrachloroethane	0.0294	0.0068	mg/kg dry	0.06835	BRL	43	39-135			
1,1,2-Trichloroethane	0.0319	0.0068	mg/kg dry	0.06835	BRL	47	44-140			
1,1-Dichloroethane	0.0355	0.0068	mg/kg dry	0.06835	BRL	52	59-137			MI
1,1-Dichloroethylene	0.0383	0.0068	mg/kg dry	0.06835	BRL	56	54-162			
1,1-Dichloropropylene	0.0381	0.0068	mg/kg dry	0.06835	BRL	56	55-137			
1,2,3-Trichlorobenzene	0.0311	0.0068	mg/kg dry	0.06835	BRL	46	34-120			
1,2,3-Trichloropropane	0.0307	0.0068	mg/kg dry	0.06835	BRL	45	45-139			
1,2,4-Trichlorobenzene	0.0317	0.0068	mg/kg dry	0.06835	BRL	46	35-116			
1,2,4-Trimethylbenzene	0.0402	0.0068	mg/kg dry	0.06835	BRL	59	38-142			
1,2-Dibromoethane	0.0308	0.0068	mg/kg dry	0.06835	BRL	45	49-132			MI
1,2-Dichlorobenzene	0.0325	0.0068	mg/kg dry	0.06835	BRL	48	42-130			
1,2-Dichloroethane	0.0323	0.0068	mg/kg dry	0.06835	BRL	47	51-131			MI
1,2-Dichloropropane	0.0339	0.0068	mg/kg dry	0.06835	BRL	50	55-138			MI
1,3,5-Trimethylbenzene	0.0371	0.0068	mg/kg dry	0.06835	BRL	54	44-140			
1,3-Dichlorobenzene	0.0335	0.0068	mg/kg dry	0.06835	BRL	49	41-129			
1,3-Dichloropropane	0.0316	0.0068	mg/kg dry	0.06835	BRL	46	53-129			MI
1,4-Dichlorobenzene	0.0333	0.0068	mg/kg dry	0.06835	BRL	49	44-134			
2,2-Dichloropropane	0.0372	0.0068	mg/kg dry	0.06835	BRL	54	30-147			
2-Chlorotoluene	0.0343	0.0068	mg/kg dry	0.06835	BRL	50	46-132			
4-Chlorotoluene	0.0346	0.0068	mg/kg dry	0.06835	BRL	51	44-135			
4-Isopropyltoluene	0.0370	0.0068	mg/kg dry	0.06835	BRL	54	32-144			
Acetone	0.0594	0.068	mg/kg dry	0.1367	BRL	43	34-143			J
Benzene	0.0360	0.0041	mg/kg dry	0.06835	BRL	53	60-135			MI
Bromobenzene	0.0336	0.0068	mg/kg dry	0.06835	BRL	49	45-135			
Bromochloromethane	0.0336	0.0068	mg/kg dry	0.06835	BRL	49	55-136			MI
Bromodichloromethane	0.0330	0.0068	mg/kg dry	0.06835	BRL	48	55-127			MI
Bromoform	0.0277	0.0068	mg/kg dry	0.06835	BRL	41	40-136			
Bromomethane	0.0300	0.014	mg/kg dry	0.06835	BRL	44	30-137			
Carbon Tetrachloride	0.0363	0.0068	mg/kg dry	0.06835	BRL	53	48-153			
Chlorobenzene	0.0344	0.0068	mg/kg dry	0.06835	BRL	50	57-125			MI
Chloroethane	0.0397	0.014	mg/kg dry	0.06835	BRL	58	16-177			
Chloroform	0.0348	0.0068	mg/kg dry	0.06835	BRL	51	56-137			MI
Chloromethane	0.0359	0.0068	mg/kg dry	0.06835	BRL	52	40-145			
cis-1,2-Dichloroethylene	0.0350	0.0068	mg/kg dry	0.06835	BRL	51	58-140			MI
cis-1,3-Dichloropropylene	0.0337	0.0068	mg/kg dry	0.06835	BRL	49	42-135			
Dibromochloromethane	0.0306	0.0068	mg/kg dry	0.06835	BRL	45	49-127			MI
Dichlorodifluoromethane	0.0392	0.0068	mg/kg dry	0.06835	BRL	57	25-151			
Ethanol	0.952	0.34	mg/kg dry	1.709	BRL	56	70-130			MI
Ethylbenzene	0.0372	0.0068	mg/kg dry	0.06835	BRL	54	44-144			
Isopropyl Ether	0.0333	0.0068	mg/kg dry	0.06835	BRL	49	51-155			MI
Isopropylbenzene (Cumene)	0.0369	0.0068	mg/kg dry	0.06835	BRL	54	41-140			
m,p-Xylenes	0.0778	0.014	mg/kg dry	0.1367	BRL	57	36-148			
Methyl Butyl Ketone (2-Hexanone)	0.0292	0.068	mg/kg dry	0.06835	BRL	43	30-147			J
Methyl Ethyl Ketone (2-Butanone)	0.0288	0.14	mg/kg dry	0.06835	BRL	42	24-160			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
Matrix Spike (P5B0514-MS1)		**Source: 5020437-04**		Prepared & Analyzed: 02/27/15						
Methyl Isobutyl Ketone	0.0300	0.068	mg/kg dry	0.06835	BRL	44	25-163			J
Methylene Chloride	0.0380	0.0068	mg/kg dry	0.06835	BRL	56	53-144			
Methyl-tert-Butyl Ether	0.0317	0.014	mg/kg dry	0.06835	BRL	46	49-135			MI
Naphthalene	0.0357	0.014	mg/kg dry	0.06835	BRL	52	32-127			
n-Butylbenzene	0.0382	0.0068	mg/kg dry	0.06835	BRL	56	23-148			
n-Propylbenzene	0.0377	0.0068	mg/kg dry	0.06835	BRL	55	35-144			
o-Xylene	0.0366	0.0068	mg/kg dry	0.06835	BRL	53	43-143			
sec-Butylbenzene	0.0377	0.0068	mg/kg dry	0.06835	BRL	55	34-144			
Styrene	0.0364	0.0068	mg/kg dry	0.06835	BRL	53	42-132			
tert-Amyl Alcohol	0.0330	0.55	mg/kg dry	0.06835	BRL	48	70-130			MI, J
tert-Amyl Methyl Ether	0.0666	0.14	mg/kg dry	0.1367	BRL	49	70-130			MI, J
tert-Butyl Alcohol	0.0680	0.27	mg/kg dry	0.1367	BRL	50	70-130			MI, J
tert-Butyl Formate	0.0553	0.55	mg/kg dry	0.1367	BRL	40	70-130			MI, J
tert-Butylbenzene	0.0364	0.0068	mg/kg dry	0.06835	BRL	53	36-150			
tert-Butyl Ethyl Ether	0.0680	0.14	mg/kg dry	0.1367	BRL	50	70-130			MI, J
Tetrachloroethylene	0.0366	0.0068	mg/kg dry	0.06835	BRL	54	47-142			
Toluene	0.0363	0.0068	mg/kg dry	0.06835	BRL	53	57-135			MI
trans-1,2-Dichloroethylene	0.0369	0.0068	mg/kg dry	0.06835	BRL	54	58-141			MI
trans-1,3-Dichloropropylene	0.0328	0.0068	mg/kg dry	0.06835	BRL	48	41-124			
Trichloroethylene	0.0371	0.0068	mg/kg dry	0.06835	BRL	54	38-164			
Trichlorofluoromethane	0.0393	0.0068	mg/kg dry	0.06835	BRL	57	30-157			
Vinyl acetate	0.0317	0.034	mg/kg dry	0.06835	BRL	46	61-154			MI, J
Vinyl chloride	0.0407	0.0068	mg/kg dry	0.06835	BRL	60	40-156			
Xylenes, total	0.114	0.021	mg/kg dry	0.2050	BRL	56	36-148			
Surrogate: 4-Bromofluorobenzene	*0.0632*		*mg/kg dry*	*0.06835*		*93*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0625*		*mg/kg dry*	*0.06835*		*91*	*84-123*			
Surrogate: Toluene-d8	*0.0625*		*mg/kg dry*	*0.06835*		*91*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
Matrix Spike Dup (P5B0514-MSD1)		**Source: 5020437-04**		Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	0.0362	0.0071	mg/kg dry	0.07064	BRL	51	60-120	7	15	MI
1,1,1-Trichloroethane	0.0410	0.0071	mg/kg dry	0.07064	BRL	58	52-139	12	21	
1,1,2,2-Tetrachloroethane	0.0308	0.0071	mg/kg dry	0.07064	BRL	44	39-135	5	22	
1,1,2-Trichloroethane	0.0336	0.0071	mg/kg dry	0.07064	BRL	48	44-140	5	21	
1,1-Dichloroethane	0.0391	0.0071	mg/kg dry	0.07064	BRL	55	59-137	10	21	MI
1,1-Dichloroethylene	0.0438	0.0071	mg/kg dry	0.07064	BRL	62	54-162	13	22	
1,1-Dichloropropylene	0.0426	0.0071	mg/kg dry	0.07064	BRL	60	55-137	11	19	
1,2,3-Trichlorobenzene	0.0327	0.0071	mg/kg dry	0.07064	BRL	46	34-120	5	41	
1,2,3-Trichloropropane	0.0315	0.0071	mg/kg dry	0.07064	BRL	45	45-139	2	25	
1,2,4-Trichlorobenzene	0.0347	0.0071	mg/kg dry	0.07064	BRL	49	35-116	9	62	
1,2,4-Trimethylbenzene	0.0424	0.0071	mg/kg dry	0.07064	BRL	60	38-142	5	24	
1,2-Dibromoethane	0.0336	0.0071	mg/kg dry	0.07064	BRL	48	49-132	9	15	MI
1,2-Dichlorobenzene	0.0348	0.0071	mg/kg dry	0.07064	BRL	49	42-130	7	21	
1,2-Dichloroethane	0.0335	0.0071	mg/kg dry	0.07064	BRL	47	51-131	4	13	MI
1,2-Dichloropropane	0.0367	0.0071	mg/kg dry	0.07064	BRL	52	55-138	8	16	MI
1,3,5-Trimethylbenzene	0.0404	0.0071	mg/kg dry	0.07064	BRL	57	44-140	8	29	
1,3-Dichlorobenzene	0.0362	0.0071	mg/kg dry	0.07064	BRL	51	41-129	8	24	
1,3-Dichloropropane	0.0341	0.0071	mg/kg dry	0.07064	BRL	48	53-129	8	15	MI
1,4-Dichlorobenzene	0.0359	0.0071	mg/kg dry	0.07064	BRL	51	44-134	8	21	
2,2-Dichloropropane	0.0431	0.0071	mg/kg dry	0.07064	BRL	61	30-147	15	20	
2-Chlorotoluene	0.0381	0.0071	mg/kg dry	0.07064	BRL	54	46-132	11	29	
4-Chlorotoluene	0.0380	0.0071	mg/kg dry	0.07064	BRL	54	44-135	9	23	
4-Isopropyltoluene	0.0411	0.0071	mg/kg dry	0.07064	BRL	58	32-144	10	22	
Acetone	0.0572	0.071	mg/kg dry	0.1413	BRL	41	34-143	4	49	J
Benzene	0.0398	0.0042	mg/kg dry	0.07064	BRL	56	60-135	10	20	MI
Bromobenzene	0.0362	0.0071	mg/kg dry	0.07064	BRL	51	45-135	7	25	
Bromochloromethane	0.0341	0.0071	mg/kg dry	0.07064	BRL	48	55-136	1	18	MI
Bromodichloromethane	0.0356	0.0071	mg/kg dry	0.07064	BRL	50	55-127	8	17	MI
Bromoform	0.0295	0.0071	mg/kg dry	0.07064	BRL	42	40-136	6	35	
Bromomethane	0.0259	0.014	mg/kg dry	0.07064	BRL	37	30-137	15	30	
Carbon Tetrachloride	0.0413	0.0071	mg/kg dry	0.07064	BRL	58	48-153	13	23	
Chlorobenzene	0.0384	0.0071	mg/kg dry	0.07064	BRL	54	57-125	11	14	MI
Chloroethane	0.0420	0.014	mg/kg dry	0.07064	BRL	60	16-177	6	47	
Chloroform	0.0378	0.0071	mg/kg dry	0.07064	BRL	54	56-137	8	18	MI
Chloromethane	0.0385	0.0071	mg/kg dry	0.07064	BRL	54	40-145	7	26	
cis-1,2-Dichloroethylene	0.0380	0.0071	mg/kg dry	0.07064	BRL	54	58-140	8	28	MI
cis-1,3-Dichloropropylene	0.0360	0.0071	mg/kg dry	0.07064	BRL	51	42-135	7	32	
Dibromochloromethane	0.0324	0.0071	mg/kg dry	0.07064	BRL	46	49-127	6	24	MI
Dichlorodifluoromethane	0.0441	0.0071	mg/kg dry	0.07064	BRL	62	25-151	12	37	
Ethanol	1.01	0.35	mg/kg dry	1.766	BRL	57	70-130	6	20	MI
Ethylbenzene	0.0410	0.0071	mg/kg dry	0.07064	BRL	58	44-144	10	19	
Isopropyl Ether	0.0360	0.0071	mg/kg dry	0.07064	BRL	51	51-155	8	13	
Isopropylbenzene (Cumene)	0.0415	0.0071	mg/kg dry	0.07064	BRL	59	41-140	12	27	
m,p-Xylenes	0.0851	0.014	mg/kg dry	0.1413	BRL	60	36-148	9	20	
Methyl Butyl Ketone (2-Hexanone)	0.0301	0.071	mg/kg dry	0.07064	BRL	43	30-147	3	42	J
Methyl Ethyl Ketone (2-Butanone)	0.0298	0.14	mg/kg dry	0.07064	BRL	42	24-160	3	42	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
Matrix Spike Dup (P5B0514-MSD1)		**Source: 5020437-04**		Prepared & Analyzed: 02/27/15						
Methyl Isobutyl Ketone	0.0308	0.071	mg/kg dry	0.07064	BRL	44	25-163	2	44	J
Methylene Chloride	0.0396	0.0071	mg/kg dry	0.07064	BRL	56	53-144	4	14	
Methyl-tert-Butyl Ether	0.0329	0.014	mg/kg dry	0.07064	BRL	47	49-135	4	22	MI
Naphthalene	0.0351	0.014	mg/kg dry	0.07064	BRL	50	32-127	2	44	
n-Butylbenzene	0.0418	0.0071	mg/kg dry	0.07064	BRL	59	23-148	9	39	
n-Propylbenzene	0.0414	0.0071	mg/kg dry	0.07064	BRL	59	35-144	10	27	
o-Xylene	0.0395	0.0071	mg/kg dry	0.07064	BRL	56	43-143	8	17	
sec-Butylbenzene	0.0418	0.0071	mg/kg dry	0.07064	BRL	59	34-144	10	28	
Styrene	0.0396	0.0071	mg/kg dry	0.07064	BRL	56	42-132	8	28	
tert-Amyl Alcohol	0.0306	0.57	mg/kg dry	0.07064	BRL	43	70-130	7	20	MI, J
tert-Amyl Methyl Ether	0.0696	0.14	mg/kg dry	0.1413	BRL	49	70-130	4	20	MI, J
tert-Butyl Alcohol	0.0719	0.28	mg/kg dry	0.1413	BRL	51	70-130	6	20	MI, J
tert-Butyl Formate	0.0571	0.57	mg/kg dry	0.1413	BRL	40	70-130	3	20	MI, J
tert-Butylbenzene	0.0402	0.0071	mg/kg dry	0.07064	BRL	57	36-150	10	29	
tert-Butyl Ethyl Ether	0.0719	0.14	mg/kg dry	0.1413	BRL	51	70-130	6	20	MI, J
Tetrachloroethylene	0.0406	0.0071	mg/kg dry	0.07064	BRL	58	47-142	11	26	
Toluene	0.0396	0.0071	mg/kg dry	0.07064	BRL	56	57-135	9	22	MI
trans-1,2-Dichloroethylene	0.0415	0.0071	mg/kg dry	0.07064	BRL	59	58-141	12	18	
trans-1,3-Dichloropropylene	0.0348	0.0071	mg/kg dry	0.07064	BRL	49	41-124	6	20	
Trichloroethylene	0.0419	0.0071	mg/kg dry	0.07064	BRL	59	38-164	12	18	
Trichlorofluoromethane	0.0443	0.0071	mg/kg dry	0.07064	BRL	63	30-157	12	27	
Vinyl acetate	0.0309	0.035	mg/kg dry	0.07064	BRL	44	61-154	3	35	MI, J
Vinyl chloride	0.0436	0.0071	mg/kg dry	0.07064	BRL	62	40-156	7	35	
Xylenes, total	0.125	0.021	mg/kg dry	0.2119	BRL	59	36-148	9	20	
Surrogate: 4-Bromofluorobenzene	*0.0619*		*mg/kg dry*	*0.07064*		*88*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0603*		*mg/kg dry*	*0.07064*		*85*	*84-123*			
Surrogate: Toluene-d8	*0.0610*		*mg/kg dry*	*0.07064*		*86*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0087 - 5030B										
Blank (P5C0087-BLK1)				Prepared & Analyzed: 03/04/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	5.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0087 - 5030B										
Blank (P5C0087-BLK1)				Prepared & Analyzed: 03/04/15						
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*27.0*		*ug/L*	*25.00*		*108*	*80-124*			
Surrogate: Dibromofluoromethane	*25.8*		*ug/L*	*25.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*25.5*		*ug/L*	*25.00*		*102*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0087 - 5030B										
LCS (P5C0087-BS1)				Prepared & Analyzed: 03/04/15						
1,1,1,2-Tetrachloroethane	19.0	0.50	ug/L	20.00		95	79-134			
1,1,1-Trichloroethane	20.7	0.50	ug/L	20.00		103	75-136			
1,1,2,2-Tetrachloroethane	19.2	0.50	ug/L	20.00		96	62-127			
1,1,2-Trichloroethane	19.4	0.50	ug/L	20.00		97	70-140			
1,1-Dichloroethane	19.9	0.50	ug/L	20.00		99	78-130			
1,1-Dichloroethylene	22.8	0.50	ug/L	20.00		114	70-154			
1,1-Dichloropropylene	22.5	0.50	ug/L	20.00		112	71-136			
1,2,3-Trichlorobenzene	20.7	2.0	ug/L	20.00		104	58-144			
1,2,3-Trichloropropane	18.7	1.0	ug/L	20.00		93	71-127			
1,2,4-Trichlorobenzene	21.6	1.0	ug/L	20.00		108	66-139			
1,2,4-Trimethylbenzene	22.4	0.50	ug/L	20.00		112	75-133			
1,2-Dibromo-3-chloropropane	21.9	2.0	ug/L	20.00		109	63-134			
1,2-Dibromoethane	20.5	0.50	ug/L	20.00		103	77-135			
1,2-Dichlorobenzene	20.9	0.50	ug/L	20.00		105	78-128			
1,2-Dichloroethane	18.6	0.50	ug/L	20.00		93	68-131			
1,2-Dichloropropane	19.1	0.50	ug/L	20.00		95	77-130			
1,3,5-Trimethylbenzene	22.7	0.50	ug/L	20.00		114	75-131			
1,3-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	77-125			
1,3-Dichloropropane	20.3	0.50	ug/L	20.00		102	76-132			
1,4-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	75-126			
2,2-Dichloropropane	21.5	2.0	ug/L	20.00		107	29-149			
2-Chloroethyl Vinyl Ether	10.1	5.0	ug/L	20.00		50	34-144			
2-Chlorotoluene	21.2	0.50	ug/L	20.00		106	74-126			
4-Chlorotoluene	21.5	0.50	ug/L	20.00		107	78-129			
4-Isopropyltoluene	23.3	0.50	ug/L	20.00		117	69-132			
Acetone	39.6	5.0	ug/L	40.00		99	40-166			
Acrolein	44.6	20	ug/L	40.00		112	70-130			
Acrylonitrile	40.4	20	ug/L	40.00		101	81-127			
Benzene	21.2	0.50	ug/L	20.00		106	77-128			
Bromobenzene	20.1	0.50	ug/L	20.00		101	78-129			
Bromochloromethane	20.5	0.50	ug/L	20.00		103	78-135			
Bromodichloromethane	17.4	0.50	ug/L	20.00		87	76-138			
Bromoform	18.9	1.0	ug/L	20.00		94	71-135			
Bromomethane	21.1	1.0	ug/L	20.00		105	41-168			
Carbon disulfide	23.0	5.0	ug/L	20.00		115	59-135			
Carbon Tetrachloride	19.9	0.50	ug/L	20.00		100	72-142			
Chlorobenzene	20.3	0.50	ug/L	20.00		102	78-119			
Chloroethane	21.6	0.50	ug/L	20.00		108	57-142			
Chloroform	18.1	0.50	ug/L	20.00		90	77-130			
Chloromethane	22.2	0.50	ug/L	20.00		111	47-145			
cis-1,2-Dichloroethylene	20.2	0.50	ug/L	20.00		101	76-141			
cis-1,3-Dichloropropylene	20.3	0.50	ug/L	20.00		102	65-140			
Dibromochloromethane	18.6	0.50	ug/L	20.00		93	75-134			
Dibromomethane	17.0	0.50	ug/L	20.00		85	76-138			
Dichlorodifluoromethane	22.1	1.0	ug/L	20.00		110	28-163			
Ethylbenzene	21.3	0.50	ug/L	20.00		106	80-127			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0087 - 5030B										
LCS (P5C0087-BS1)				Prepared & Analyzed: 03/04/15						
Hexachlorobutadiene	21.4	2.0	ug/L	20.00		107	61-134			
Isopropyl Ether	18.2	0.50	ug/L	20.00		91	60-154			
Isopropylbenzene (Cumene)	23.5	0.50	ug/L	20.00		117	70-130			
m,p-Xylenes	43.5	1.0	ug/L	40.00		109	77-133			
Methyl Butyl Ketone (2-Hexanone)	20.8	5.0	ug/L	20.00		104	64-137			
Methyl Ethyl Ketone (2-Butanone)	19.4	5.0	ug/L	20.00		97	71-134			
Methyl Isobutyl Ketone	19.4	5.0	ug/L	20.00		97	69-134			
Methylene Chloride	22.6	1.0	ug/L	20.00		113	73-131			
Methyl-tert-Butyl Ether	20.2	0.50	ug/L	20.00		101	68-135			
Naphthalene	20.6	1.0	ug/L	20.00		103	64-136			
n-Butylbenzene	23.2	1.0	ug/L	20.00		116	68-134			
n-Propylbenzene	22.8	0.50	ug/L	20.00		114	72-132			
o-Xylene	21.7	0.50	ug/L	20.00		108	78-128			
sec-Butylbenzene	21.8	0.50	ug/L	20.00		109	71-131			
Styrene	21.4	0.50	ug/L	20.00		107	78-129			
tert-Butylbenzene	21.8	0.50	ug/L	20.00		109	70-132			
Tetrachloroethylene	20.8	0.50	ug/L	20.00		104	80-129			
Toluene	20.5	0.50	ug/L	20.00		103	76-131			
trans-1,2-Dichloroethylene	22.0	0.50	ug/L	20.00		110	76-135			
trans-1,3-Dichloropropylene	19.7	0.50	ug/L	20.00		98	67-140			
Trichloroethylene	21.4	0.50	ug/L	20.00		107	77-133			
Trichlorofluoromethane	21.6	0.50	ug/L	20.00		108	62-148			
Vinyl acetate	23.0	2.0	ug/L	20.00		115	34-167			
Vinyl chloride	23.4	0.50	ug/L	20.00		117	57-141			
Surrogate: 4-Bromofluorobenzene	*26.4*		*ug/L*	*25.00*		*106*	*80-124*			
Surrogate: Dibromofluoromethane	*25.2*		*ug/L*	*25.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*26.0*		*ug/L*	*25.00*		*104*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0087 - 5030B										
LCS Dup (P5C0087-BSD1)				Prepared & Analyzed: 03/04/15						
1,1,1,2-Tetrachloroethane	18.5	0.50	ug/L	20.00		93	79-134	3	20	
1,1,1-Trichloroethane	19.6	0.50	ug/L	20.00		98	75-136	5	20	
1,1,2,2-Tetrachloroethane	18.3	0.50	ug/L	20.00		92	62-127	4	20	
1,1,2-Trichloroethane	19.0	0.50	ug/L	20.00		95	70-140	2	20	
1,1-Dichloroethane	19.6	0.50	ug/L	20.00		98	78-130	2	20	
1,1-Dichloroethylene	21.4	0.50	ug/L	20.00		107	70-154	7	20	
1,1-Dichloropropylene	21.4	0.50	ug/L	20.00		107	71-136	5	20	
1,2,3-Trichlorobenzene	20.1	2.0	ug/L	20.00		100	58-144	3	20	
1,2,3-Trichloropropane	18.0	1.0	ug/L	20.00		90	71-127	3	20	
1,2,4-Trichlorobenzene	20.1	1.0	ug/L	20.00		101	66-139	7	20	
1,2,4-Trimethylbenzene	21.4	0.50	ug/L	20.00		107	75-133	5	20	
1,2-Dibromo-3-chloropropane	19.7	2.0	ug/L	20.00		98	63-134	11	20	
1,2-Dibromoethane	20.0	0.50	ug/L	20.00		100	77-135	2	20	
1,2-Dichlorobenzene	20.0	0.50	ug/L	20.00		100	78-128	5	20	
1,2-Dichloroethane	18.2	0.50	ug/L	20.00		91	68-131	2	20	
1,2-Dichloropropane	19.0	0.50	ug/L	20.00		95	77-130	0.4	20	
1,3,5-Trimethylbenzene	22.0	0.50	ug/L	20.00		110	75-131	3	20	
1,3-Dichlorobenzene	19.8	0.50	ug/L	20.00		99	77-125	3	20	
1,3-Dichloropropane	19.5	0.50	ug/L	20.00		98	76-132	4	20	
1,4-Dichlorobenzene	19.7	0.50	ug/L	20.00		98	75-126	6	20	
2,2-Dichloropropane	21.2	2.0	ug/L	20.00		106	29-149	1	20	
2-Chloroethyl Vinyl Ether	9.72	5.0	ug/L	20.00		49	34-144	4	20	
2-Chlorotoluene	20.5	0.50	ug/L	20.00		103	74-126	3	20	
4-Chlorotoluene	20.2	0.50	ug/L	20.00		101	78-129	6	20	
4-Isopropyltoluene	21.5	0.50	ug/L	20.00		108	69-132	8	20	
Acetone	37.2	5.0	ug/L	40.00		93	40-166	6	20	
Acrolein	46.3	20	ug/L	40.00		116	70-130	4	20	
Acrylonitrile	41.4	20	ug/L	40.00		104	81-127	3	20	
Benzene	21.0	0.50	ug/L	20.00		105	77-128	0.7	20	
Bromobenzene	18.9	0.50	ug/L	20.00		95	78-129	6	20	
Bromochloromethane	20.6	0.50	ug/L	20.00		103	78-135	0.4	20	
Bromodichloromethane	17.3	0.50	ug/L	20.00		86	76-138	1	20	
Bromoform	18.5	1.0	ug/L	20.00		93	71-135	2	20	
Bromomethane	20.0	1.0	ug/L	20.00		100	41-168	5	20	
Carbon disulfide	22.0	5.0	ug/L	20.00		110	59-135	4	20	
Carbon Tetrachloride	18.3	0.50	ug/L	20.00		91	72-142	9	20	
Chlorobenzene	20.8	0.50	ug/L	20.00		104	78-119	2	20	
Chloroethane	20.6	0.50	ug/L	20.00		103	57-142	5	20	
Chloroform	17.4	0.50	ug/L	20.00		87	77-130	4	20	
Chloromethane	22.0	0.50	ug/L	20.00		110	47-145	0.9	20	
cis-1,2-Dichloroethylene	20.2	0.50	ug/L	20.00		101	76-141	0.1	20	
cis-1,3-Dichloropropylene	20.2	0.50	ug/L	20.00		101	65-140	0.4	20	
Dibromochloromethane	18.8	0.50	ug/L	20.00		94	75-134	1	20	
Dibromomethane	17.4	0.50	ug/L	20.00		87	76-138	2	20	
Dichlorodifluoromethane	22.1	1.0	ug/L	20.00		110	28-163	0.09	20	
Ethylbenzene	21.0	0.50	ug/L	20.00		105	80-127	1	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0087 - 5030B										
LCS Dup (P5C0087-BSD1)				Prepared & Analyzed: 03/04/15						
Hexachlorobutadiene	20.4	2.0	ug/L	20.00		102	61-134	5	20	
Isopropyl Ether	17.8	0.50	ug/L	20.00		89	60-154	2	20	
Isopropylbenzene (Cumene)	22.2	0.50	ug/L	20.00		111	70-130	5	20	
m,p-Xylenes	42.6	1.0	ug/L	40.00		107	77-133	2	20	
Methyl Butyl Ketone (2-Hexanone)	20.6	5.0	ug/L	20.00		103	64-137	1	20	
Methyl Ethyl Ketone (2-Butanone)	20.2	5.0	ug/L	20.00		101	71-134	4	20	
Methyl Isobutyl Ketone	18.4	5.0	ug/L	20.00		92	69-134	5	20	
Methylene Chloride	21.4	1.0	ug/L	20.00		107	73-131	5	20	
Methyl-tert-Butyl Ether	19.2	0.50	ug/L	20.00		96	68-135	5	20	
Naphthalene	20.2	1.0	ug/L	20.00		101	64-136	2	20	
n-Butylbenzene	21.6	1.0	ug/L	20.00		108	68-134	7	20	
n-Propylbenzene	21.5	0.50	ug/L	20.00		108	72-132	6	20	
o-Xylene	21.3	0.50	ug/L	20.00		106	78-128	2	20	
sec-Butylbenzene	20.3	0.50	ug/L	20.00		101	71-131	7	20	
Styrene	21.3	0.50	ug/L	20.00		106	78-129	0.5	20	
tert-Butylbenzene	21.0	0.50	ug/L	20.00		105	70-132	4	20	
Tetrachloroethylene	20.3	0.50	ug/L	20.00		101	80-129	2	20	
Toluene	20.1	0.50	ug/L	20.00		100	76-131	2	20	
trans-1,2-Dichloroethylene	21.8	0.50	ug/L	20.00		109	76-135	0.9	20	
trans-1,3-Dichloropropylene	19.4	0.50	ug/L	20.00		97	67-140	1	20	
Trichloroethylene	20.8	0.50	ug/L	20.00		104	77-133	3	20	
Trichlorofluoromethane	20.1	0.50	ug/L	20.00		100	62-148	7	20	
Vinyl acetate	21.4	2.0	ug/L	20.00		107	34-167	7	20	
Vinyl chloride	22.4	0.50	ug/L	20.00		112	57-141	5	20	
Surrogate: 4-Bromofluorobenzene	*26.6*		*ug/L*	*25.00*		*106*	*80-124*			
Surrogate: Dibromofluoromethane	*24.8*		*ug/L*	*25.00*		*99*	*75-129*			
Surrogate: Toluene-d8	*26.1*		*ug/L*	*25.00*		*104*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
Blank (P5C0033-BLK1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
Blank (P5C0033-BLK1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.80*		*mg/kg wet*	*3.332*		*84*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.51*		*mg/kg wet*	*1.666*		*91*	*44-115*			
Surrogate: 2-Fluorophenol	*3.02*		*mg/kg wet*	*3.332*		*91*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.33*		*mg/kg wet*	*1.666*		*80*	*37-122*			
Surrogate: Phenol-d5	*2.78*		*mg/kg wet*	*3.332*		*83*	*34-121*			
Surrogate: Terphenyl-d14	*1.69*		*mg/kg wet*	*1.666*		*101*	*54-127*			
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	1.45	0.33	mg/kg wet	1.664		87	34-118			
1,2-Dichlorobenzene	1.34	0.33	mg/kg wet	1.664		81	33-117			
1,3-Dichlorobenzene	1.32	0.33	mg/kg wet	1.664		79	30-115			
1,4-Dichlorobenzene	1.25	0.33	mg/kg wet	1.664		75	31-115			
1-Methylnaphthalene	1.45	0.33	mg/kg wet	1.664		87	40-119			
2,4,6-Trichlorophenol	1.83	0.33	mg/kg wet	1.664		110	39-126			
2,4-Dichlorophenol	1.70	0.33	mg/kg wet	1.664		102	40-122			
2,4-Dimethylphenol	1.70	0.33	mg/kg wet	1.664		102	30-127			
2,4-Dinitrophenol	1.09	0.33	mg/kg wet	1.664		66	27-129			
2,4-Dinitrotoluene	1.78	0.33	mg/kg wet	1.664		107	48-126			
2,6-Dinitrotoluene	1.79	0.33	mg/kg wet	1.664		108	46-124			
2-Chloronaphthalene	2.15	0.33	mg/kg wet	1.664		129	41-114			LH
2-Chlorophenol	1.53	0.33	mg/kg wet	1.664		92	34-121			
2-Methylnaphthalene	1.52	0.33	mg/kg wet	1.664		92	38-122			
2-Methylphenol	1.58	0.33	mg/kg wet	1.664		95	32-122			
2-Nitrophenol	1.68	0.33	mg/kg wet	1.664		101	36-123			
3,3'-Dichlorobenzidine	1.41	0.33	mg/kg wet	1.664		84	22-121			
3/4-Methylphenol	1.59	0.33	mg/kg wet	1.664		96	34-119			
4,6-Dinitro-2-methylphenol	1.44	0.33	mg/kg wet	1.664		87	29-132			
4-Bromophenyl phenyl ether	1.53	0.33	mg/kg wet	1.664		92	46-124			
4-Chloro-3-methylphenol	1.74	0.33	mg/kg wet	1.664		105	45-122			
4-Chloroaniline	1.56	0.33	mg/kg wet	1.664		94	17-106			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
4-Chlorophenyl phenyl ether	1.53	0.33	mg/kg wet	1.664		92	45-121			
4-Nitrophenol	1.74	0.33	mg/kg wet	1.664		104	30-132			
Acenaphthene	1.57	0.33	mg/kg wet	1.664		94	40-123			
Acenaphthylene	1.60	0.33	mg/kg wet	1.664		96	32-132			
Anthracene	1.58	0.33	mg/kg wet	1.664		95	47-123			
Azobenzene	1.88	0.33	mg/kg wet	1.664		113	39-125			
Benzo(a)anthracene	1.53	0.33	mg/kg wet	1.664		92	49-126			
Benzo(a)pyrene	1.24	0.33	mg/kg wet	1.664		75	45-129			
Benzo(b)fluoranthene	1.26	0.33	mg/kg wet	1.664		76	45-132			
Benzo(g,h,i)perylene	1.27	0.33	mg/kg wet	1.664		76	43-134			
Benzo(k)fluoranthene	1.24	0.33	mg/kg wet	1.664		74	47-132			
Benzoic Acid	1.56	0.33	mg/kg wet	1.664		93	10-83			LH
Benzyl alcohol	1.39	0.33	mg/kg wet	1.664		83	29-122			
bis(2-Chloroethoxy)methane	1.52	0.33	mg/kg wet	1.664		91	36-121			
Bis(2-Chloroethyl)ether	1.34	0.33	mg/kg wet	1.664		81	31-120			
Bis(2-chloroisopropyl)ether	1.30	0.33	mg/kg wet	1.664		78	33-131			
Bis(2-Ethylhexyl)phthalate	1.57	0.33	mg/kg wet	1.664		94	51-133			
Butyl benzyl phthalate	1.55	0.33	mg/kg wet	1.664		93	48-132			
Chrysene	1.62	0.33	mg/kg wet	1.664		98	50-124			
Dibenzo(a,h)anthracene	1.26	0.33	mg/kg wet	1.664		76	45-134			
Dibenzofuran	1.53	0.33	mg/kg wet	1.664		92	44-120			
Diethyl phthalate	1.59	0.33	mg/kg wet	1.664		95	50-124			
Dimethyl phthalate	1.60	0.33	mg/kg wet	1.664		96	48-124			
Di-n-butyl phthalate	1.58	0.33	mg/kg wet	1.664		95	51-128			
Di-n-octyl phthalate	1.30	0.33	mg/kg wet	1.664		78	45-140			
Fluoranthene	1.54	0.33	mg/kg wet	1.664		92	50-127			
Fluorene	1.60	0.33	mg/kg wet	1.664		96	43-125			
Hexachlorobenzene	1.57	0.33	mg/kg wet	1.664		94	45-122			
Hexachlorobutadiene	1.45	0.33	mg/kg wet	1.664		87	32-123			
Hexachlorocyclopentadiene	1.50	0.33	mg/kg wet	1.664		90	32-117			
Hexachloroethane	1.31	0.33	mg/kg wet	1.664		79	28-117			
Indeno(1,2,3-cd)pyrene	1.31	0.33	mg/kg wet	1.664		79	45-133			
Isophorone	1.69	0.33	mg/kg wet	1.664		102	30-122			
Naphthalene	1.47	0.33	mg/kg wet	1.664		88	35-123			
Nitrobenzene	1.63	0.33	mg/kg wet	1.664		98	34-122			
N-Nitroso-di-n-propylamine	1.40	0.33	mg/kg wet	1.664		84	36-120			
N-Nitrosodiphenylamine	1.62	0.33	mg/kg wet	1.664		97	38-127			
Pentachlorophenol	1.55	0.33	mg/kg wet	1.664		93	25-133			
Phenanthrene	1.56	0.33	mg/kg wet	1.664		94	50-121			
Phenol	1.61	0.33	mg/kg wet	1.664		96	34-121			
Pyrene	1.59	0.33	mg/kg wet	1.664		95	47-127			
Surrogate: 2,4,6-Tribromophenol	*3.17*		*mg/kg wet*	*3.329*		*95*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.69*		*mg/kg wet*	*1.664*		*102*	*44-115*			
Surrogate: 2-Fluorophenol	*3.25*		*mg/kg wet*	*3.329*		*98*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.56*		*mg/kg wet*	*1.664*		*94*	*37-122*			
Surrogate: Phenol-d5	*3.10*		*mg/kg wet*	*3.329*		*93*	*34-121*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Surrogate: Terphenyl-d14	*1.77*		*mg/kg wet*	*1.664*		*106*	*54-127*			
LCS Dup (P5C0033-BSD1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	1.40	0.33	mg/kg wet	1.665		84	34-118	3	20	
1,2-Dichlorobenzene	1.37	0.33	mg/kg wet	1.665		82	33-117	2	20	
1,3-Dichlorobenzene	1.35	0.33	mg/kg wet	1.665		81	30-115	3	20	
1,4-Dichlorobenzene	1.32	0.33	mg/kg wet	1.665		79	31-115	5	20	
1-Methylnaphthalene	1.40	0.33	mg/kg wet	1.665		84	40-119	4	20	
2,4,6-Trichlorophenol	1.73	0.33	mg/kg wet	1.665		104	39-126	5	20	
2,4-Dichlorophenol	1.67	0.33	mg/kg wet	1.665		100	40-122	2	20	
2,4-Dimethylphenol	1.62	0.33	mg/kg wet	1.665		98	30-127	4	20	
2,4-Dinitrophenol	1.31	0.33	mg/kg wet	1.665		79	27-129	18	20	
2,4-Dinitrotoluene	1.76	0.33	mg/kg wet	1.665		105	48-126	2	20	
2,6-Dinitrotoluene	1.81	0.33	mg/kg wet	1.665		109	46-124	1	20	
2-Chloronaphthalene	2.17	0.33	mg/kg wet	1.665		130	41-114	1	20	LH
2-Chlorophenol	1.56	0.33	mg/kg wet	1.665		94	34-121	2	20	
2-Methylnaphthalene	1.46	0.33	mg/kg wet	1.665		88	38-122	4	20	
2-Methylphenol	1.58	0.33	mg/kg wet	1.665		95	32-122	0.07	20	
2-Nitrophenol	1.57	0.33	mg/kg wet	1.665		94	36-123	7	20	
3,3'-Dichlorobenzidine	1.37	0.33	mg/kg wet	1.665		82	22-121	3	20	
3/4-Methylphenol	1.66	0.33	mg/kg wet	1.665		100	34-119	4	20	
4,6-Dinitro-2-methylphenol	1.64	0.33	mg/kg wet	1.665		98	29-132	13	20	
4-Bromophenyl phenyl ether	1.49	0.33	mg/kg wet	1.665		89	46-124	2	20	
4-Chloro-3-methylphenol	1.67	0.33	mg/kg wet	1.665		100	45-122	4	20	
4-Chloroaniline	1.50	0.33	mg/kg wet	1.665		90	17-106	4	20	
4-Chlorophenyl phenyl ether	1.49	0.33	mg/kg wet	1.665		89	45-121	3	20	
4-Nitrophenol	1.48	0.33	mg/kg wet	1.665		89	30-132	16	20	
Acenaphthene	1.54	0.33	mg/kg wet	1.665		92	40-123	2	20	
Acenaphthylene	1.52	0.33	mg/kg wet	1.665		91	32-132	5	20	
Anthracene	1.56	0.33	mg/kg wet	1.665		94	47-123	1	20	
Azobenzene	1.81	0.33	mg/kg wet	1.665		109	39-125	3	20	
Benzo(a)anthracene	1.51	0.33	mg/kg wet	1.665		90	49-126	2	20	
Benzo(a)pyrene	1.23	0.33	mg/kg wet	1.665		74	45-129	1	20	
Benzo(b)fluoranthene	1.26	0.33	mg/kg wet	1.665		76	45-132	0.2	20	
Benzo(g,h,i)perylene	1.27	0.33	mg/kg wet	1.665		76	43-134	0.3	20	
Benzo(k)fluoranthene	1.24	0.33	mg/kg wet	1.665		74	47-132	0.07	20	
Benzoic Acid	1.51	0.33	mg/kg wet	1.665		91	10-83	3	20	LH
Benzyl alcohol	1.39	0.33	mg/kg wet	1.665		84	29-122	0.5	20	
bis(2-Chloroethoxy)methane	1.44	0.33	mg/kg wet	1.665		86	36-121	5	20	
Bis(2-Chloroethyl)ether	1.41	0.33	mg/kg wet	1.665		85	31-120	5	20	
Bis(2-chloroisopropyl)ether	1.32	0.33	mg/kg wet	1.665		79	33-131	1	20	
Bis(2-Ethylhexyl)phthalate	1.56	0.33	mg/kg wet	1.665		94	51-133	0.6	20	
Butyl benzyl phthalate	1.56	0.33	mg/kg wet	1.665		94	48-132	0.6	20	
Chrysene	1.57	0.33	mg/kg wet	1.665		95	50-124	3	20	
Dibenzo(a,h)anthracene	1.23	0.33	mg/kg wet	1.665		74	45-134	3	20	
Dibenzofuran	1.47	0.33	mg/kg wet	1.665		88	44-120	4	20	
Diethyl phthalate	1.55	0.33	mg/kg wet	1.665		93	50-124	3	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS Dup (P5C0033-BSD1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Dimethyl phthalate	1.54	0.33	mg/kg wet	1.665		92	48-124	4	20	
Di-n-butyl phthalate	1.54	0.33	mg/kg wet	1.665		93	51-128	2	20	
Di-n-octyl phthalate	1.26	0.33	mg/kg wet	1.665		76	45-140	3	20	
Fluoranthene	1.51	0.33	mg/kg wet	1.665		90	50-127	2	20	
Fluorene	1.54	0.33	mg/kg wet	1.665		93	43-125	4	20	
Hexachlorobenzene	1.61	0.33	mg/kg wet	1.665		97	45-122	2	20	
Hexachlorobutadiene	1.35	0.33	mg/kg wet	1.665		81	32-123	7	20	
Hexachlorocyclopentadiene	1.39	0.33	mg/kg wet	1.665		84	32-117	8	20	
Hexachloroethane	1.34	0.33	mg/kg wet	1.665		80	28-117	2	20	
Indeno(1,2,3-cd)pyrene	1.29	0.33	mg/kg wet	1.665		77	45-133	2	20	
Isophorone	1.60	0.33	mg/kg wet	1.665		96	30-122	6	20	
Naphthalene	1.42	0.33	mg/kg wet	1.665		85	35-123	4	20	
Nitrobenzene	1.50	0.33	mg/kg wet	1.665		90	34-122	8	20	
N-Nitroso-di-n-propylamine	1.46	0.33	mg/kg wet	1.665		88	36-120	4	20	
N-Nitrosodiphenylamine	1.58	0.33	mg/kg wet	1.665		95	38-127	2	20	
Pentachlorophenol	1.59	0.33	mg/kg wet	1.665		96	25-133	3	20	
Phenanthrene	1.53	0.33	mg/kg wet	1.665		92	50-121	2	20	
Phenol	1.65	0.33	mg/kg wet	1.665		99	34-121	3	20	
Pyrene	1.56	0.33	mg/kg wet	1.665		94	47-127	2	20	
Surrogate: 2,4,6-Tribromophenol	*3.30*		*mg/kg wet*	*3.330*		*99*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.69*		*mg/kg wet*	*1.665*		*101*	*44-115*			
Surrogate: 2-Fluorophenol	*3.41*		*mg/kg wet*	*3.330*		*102*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.55*		*mg/kg wet*	*1.665*		*93*	*37-122*			
Surrogate: Phenol-d5	*3.24*		*mg/kg wet*	*3.330*		*97*	*34-121*			
Surrogate: Terphenyl-d14	*1.76*		*mg/kg wet*	*1.665*		*106*	*54-127*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0018 - MADEP VPH (S)										
Blank (P5C0018-BLK1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	*9.50*		*mg/kg wet*	*10.67*		*89*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*9.85*		*mg/kg wet*	*10.67*		*92*	*70-130*			
LCS (P5C0018-BS1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	33.5	5.0	mg/kg wet	32.00		105	70-130			
C9-C10 Aromatics	10.6	5.0	mg/kg wet	10.67		100	70-130			
C9-C12 Aliphatic	36.4	5.0	mg/kg wet	32.00		114	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*10.9*		*mg/kg wet*	*10.67*		*102*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*11.3*		*mg/kg wet*	*10.67*		*106*	*70-130*			
LCS Dup (P5C0018-BSD1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	32.1	5.0	mg/kg wet	32.00		100	70-130	4	50	
C9-C10 Aromatics	10.3	5.0	mg/kg wet	10.67		97	70-130	3	50	
C9-C12 Aliphatic	35.7	5.0	mg/kg wet	32.00		112	70-130	2	50	
Surrogate: 2,5-Dibromotoluene (PID)	*10.4*		*mg/kg wet*	*10.67*		*98*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*10.7*		*mg/kg wet*	*10.67*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0520 - 5035										
Blank (P5B0520-BLK1)				Prepared & Analyzed: 02/27/15						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*5.10*		*mg/kg wet*	*5.000*		*102*	*50-137*			
LCS (P5B0520-BS1)				Prepared & Analyzed: 02/27/15						
Gasoline Range Organics	55.2	5.0	mg/kg wet	50.00		110	41-138			
Surrogate: a,a,a-Trifluorotoluene	*4.75*		*mg/kg wet*	*5.000*		*95*	*50-137*			
LCS Dup (P5B0520-BSD1)				Prepared & Analyzed: 02/27/15						
Gasoline Range Organics	60.6	5.0	mg/kg wet	50.00		121	41-138	9	20	
Surrogate: a,a,a-Trifluorotoluene	*5.15*		*mg/kg wet*	*5.000*		*103*	*50-137*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0037 - 3546										
Blank (P5C0037-BLK1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	BRL	10	mg/kg wet							
C19-C36 Aliphatics	2.65	10	mg/kg wet							J
C11-C22 Aromatics	BRL	10	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.59*		*mg/kg wet*	*2.000*		*80*	*40-140*			
Surrogate: o-Terphenyl	*1.51*		*mg/kg wet*	*2.000*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.57*		*mg/kg wet*	*4.000*		*89*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.30*		*mg/kg wet*	*4.000*		*83*	*40-140*			
LCS (P5C0037-BS1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	34.3	10	mg/kg wet	60.00		57	40-140			
C19-C36 Aliphatics	66.1	10	mg/kg wet	80.00		83	40-140			
C11-C22 Aromatics	148	10	mg/kg wet	170.0		87	40-140			
Surrogate: 1-Chlorooctadecane	*1.81*		*mg/kg wet*	*2.000*		*91*	*40-140*			
Surrogate: o-Terphenyl	*1.86*		*mg/kg wet*	*2.000*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.76*		*mg/kg wet*	*4.000*		*94*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.81*		*mg/kg wet*	*4.000*		*95*	*40-140*			
LCS Dup (P5C0037-BSD1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	33.0	10	mg/kg wet	60.00		55	40-140	4	50	
C19-C36 Aliphatics	63.2	10	mg/kg wet	80.00		79	40-140	5	50	
C11-C22 Aromatics	135	10	mg/kg wet	170.0		79	40-140	9	50	
Surrogate: 1-Chlorooctadecane	*1.56*		*mg/kg wet*	*2.000*		*78*	*40-140*			
Surrogate: o-Terphenyl	*1.61*		*mg/kg wet*	*2.000*		*80*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*4.00*		*mg/kg wet*	*4.000*		*100*	*40-140*			
Surrogate: 2-Bromonaphthalene	*4.09*		*mg/kg wet*	*4.000*		*102*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0003 - 3050B										
Blank (P5C0003-BLK1)				Prepared: 03/02/15 Analyzed: 03/03/15						
Chromium	BRL	0.25	mg/kg wet							
Lead	BRL	0.25	mg/kg wet							
LCS (P5C0003-BS1)				Prepared: 03/02/15 Analyzed: 03/03/15						
Chromium	25.7	0.25	mg/kg wet	25.00		103	80-120			
Lead	24.9	0.25	mg/kg wet	25.00		99	80-120			
Matrix Spike (P5C0003-MS1)		**Source: 5020437-01**		Prepared: 03/02/15 Analyzed: 03/03/15						
Chromium	26.9	0.29	mg/kg dry	29.14	5.87	72	75-125			MI
Lead	25.0	0.29	mg/kg dry	29.14	4.33	71	75-125			MI
Matrix Spike Dup (P5C0003-MSD1)		**Source: 5020437-01**		Prepared: 03/02/15 Analyzed: 03/03/15						
Chromium	27.2	0.29	mg/kg dry	29.14	5.87	73	75-125	1	20	MI
Lead	22.5	0.29	mg/kg dry	29.14	4.33	62	75-125	11	20	MI
Post Spike (P5C0003-PS1)		**Source: 5020437-01**		Prepared: 03/02/15 Analyzed: 03/03/15						
Chromium	1.15		mg/L	1.000	0.204	95	80-120			
Lead	1.06		mg/L	1.000	0.150	91	80-120			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020437
Time Submitted: 2/25/2015 8:25:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0095 - Solids, Dry Weight										
Blank (P5C0095-BLK1)				Prepared & Analyzed: 03/05/15						
% Solids	100	0.100	% by Weight							
Duplicate (P5C0095-DUP1)		**Source: 5020437-01**		Prepared & Analyzed: 03/05/15						
% Solids	87.2	0.100	% by Weight		86.6			0.7	20	

Sample Extraction Data

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020437-01	P5C0037	10 g	2 mL	03/03/15 11:10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020437-02	P5B0520	5.6 g	5 mL	02/27/15 14:27
5020437-03	P5B0520	5.19 g	5 mL	02/27/15 14:27
5020437-04	P5B0520	5.21 g	5 mL	02/27/15 14:27

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
5020437-01	P5C0095	30 g	30 g	03/05/15 12:45
5020437-02	P5C0095	30 g	30 g	03/05/15 12:45
5020437-03	P5C0095	30 g	30 g	03/05/15 12:45
5020437-04	P5C0095	30 g	30 g	03/05/15 12:45

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020437-01	P5C0033	30.07 g	1 mL	03/03/15 10:50

Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
5020437-01	P5C0003	2.01 g	50 mL	03/02/15 8:20

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5020437-05	P5C0087	10 mL	10 mL	03/04/15 9:13

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020437-01	P5B0514	5.28 g	5 mL	02/27/15 8:37
5020437-02	P5B0514	5.6 g	5 mL	02/27/15 8:37
5020437-03	P5B0514	5.08 g	5 mL	02/27/15 8:37
5020437-04	P5B0514	5.03 g	5 mL	02/27/15 8:37

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date/Time
5020437-01	P5C0018	17.8 g	16 mL	03/02/15 15:03

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Charlotte Airport Rental Car Facilities
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Michelle Friedman
Address: 5925 Carnegie Blvd. Suite 320 Charlotte, NC 28209
Purchase Order No./Billing Reference 60340238

Client Company Name: URS Corp
Report To/Contact Name: James McDorman
Reporting Address: 6000 Fairview Rd, Suite 200 Charlotte, NC
Phone: 704-716-0734 Fax (Yes) (No):
Email Address: James.McDorman@AECOM.com
EDD Type: PDF Excel Other
Site Location Name: Rental Car Facilities
Site Location Physical Address: Rental Car Rd

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	X		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	X		
Received WITHIN HOLDING TIMES?	X		
CUSTODY SEALS INTACT?			X
VOLATILES rec'd W/OUT HEADSPACE?			X
PROPER CONTAINERS used?	X		

TEMP: Therm ID: IR-10 Observed: 2.0 °C / Corr: 0.6 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X
SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8260B	DRO	GRO	EPH+VPH	CR+Pb	SVOC	REMARKS	PRISM LAB ID NO.
AVIS TMW-1	2/24/2015	1000	Soil	VOA + G	7	40 mL 802, 402	Methanol + None	X			X	X	X		01
AVIS B2	2/24/15	~~1515~~ 1630	Soil	↓	6	40 mL 202	↓	X		X					02
Avis TMW-5	2/24/15	1700	Soil	↓	6	40mL 202	↓	X		X					03
Avis TMW-6	2/24/15	1515	Soil	↓	6	↓	↓	X		X					04
Trip Blank	1							✓							05

Sampler's Signature _____ Sampled By (Print Name) Andrew Wresching Affiliation URS/AECOM

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military Hours
Relinquished By: (Signature)	Received By: (Signature)	2/25/15	0755
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 2/25/15	0825

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other

COC Group No. 502437

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/18/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/25/2015
Prism Work Order: 5020449

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

This is a Revised Report and supercedes the original laboratory report dated 3/9/15.
Method 8260 Ethanol, tert-amyl alchol, tert-amyl methyl ether, tert-butyl alcohol, tert-butyl ether and ter-butyl formate were added to Client Samples: Avis TMW-4 (6-8) and Avis TMW-4 (10-12).

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones
President/Project Manager

Reviewed By Robbi A. Jones
President/Project Manager

Data Qualifiers Key Reference:

CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
DO	Surrogates diluted out.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
RLM	Sample container suspected to have low methanol content. Results possibly biased high.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Receipt Summary

03/18/2015

Prism Work Order: 5020449

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Avis TMW-2	5020449-01	Solid	02/25/15	02/25/15
Avis B1	5020449-02	Solid	02/25/15	02/25/15
Avis TMW-3	5020449-03	Solid	02/25/15	02/25/15
Avis TMW-4 (6-8)	5020449-04	Solid	02/25/15	02/25/15
Avis TMW-4 (10-12)	5020449-05	Solid	02/25/15	02/25/15

Samples were received in good condition at 4.7 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/18/2015

Prism Work Order: 5020449

Prism ID	Client ID	Parameter	Method	Result	Units
5020449-02	Avis B1	Gasoline Range Organics	*8015C	210	mg/kg dry
5020449-02	Avis B1	4-Isopropyltoluene	8260B	0.054	mg/kg dry
5020449-02	Avis B1	Benzene	8260B	0.0057	mg/kg dry
5020449-02	Avis B1	Isopropylbenzene (Cumene)	8260B	0.23	mg/kg dry
5020449-02	Avis B1	n-Butylbenzene	8260B	0.19	mg/kg dry
5020449-02	Avis B1	sec-Butylbenzene	8260B	0.093	mg/kg dry
5020449-02	Avis B1	Toluene	8260B	0.015	mg/kg dry
5020449-02	Avis B1	1,2,4-Trimethylbenzene	8260B	25	mg/kg dry
5020449-02	Avis B1	1,3,5-Trimethylbenzene	8260B	6.9	mg/kg dry
5020449-02	Avis B1	Ethylbenzene	8260B	2.4	mg/kg dry
5020449-02	Avis B1	m,p-Xylenes	8260B	8.6	mg/kg dry
5020449-02	Avis B1	Naphthalene	8260B	4.8	mg/kg dry
5020449-02	Avis B1	n-Propylbenzene	8260B	3.3	mg/kg dry
5020449-02	Avis B1	o-Xylene	8260B	4.7	mg/kg dry
5020449-02	Avis B1	Xylenes, total	8260B	13	mg/kg dry
5020449-03	Avis TMW-3	Chromium	*6010C	4.1	mg/kg dry
5020449-03	Avis TMW-3	Lead	*6010C	3.9	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	Gasoline Range Organics	*8015C	3000	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	1,2,4-Trimethylbenzene	8260B	160	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	1,3,5-Trimethylbenzene	8260B	46	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	4-Isopropyltoluene	8260B	1.5	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	Benzene	8260B	11	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	Ethylbenzene	8260B	49	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	Isopropylbenzene (Cumene)	8260B	5.9	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	m,p-Xylenes	8260B	180	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	Naphthalene	8260B	28	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	n-Butylbenzene	8260B	11	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	n-Propylbenzene	8260B	24	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	o-Xylene	8260B	76	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	sec-Butylbenzene	8260B	2.7	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	Toluene	8260B	140	mg/kg dry
5020449-04	Avis TMW-4 (6-8)	Xylenes, total	8260B	260	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	Gasoline Range Organics	*8015C	560	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	1,2,4-Trimethylbenzene	8260B	50	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	1,3,5-Trimethylbenzene	8260B	14	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	4-Isopropyltoluene	8260B	0.53	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	Benzene	8260B	1.5	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	Ethylbenzene	8260B	13	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	Isopropylbenzene (Cumene)	8260B	1.7	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	m,p-Xylenes	8260B	46	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	Naphthalene	8260B	11	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	n-Butylbenzene	8260B	3.9	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	n-Propylbenzene	8260B	7.4	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	o-Xylene	8260B	22	mg/kg dry

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/18/2015

Prism Work Order: 5020449

Prism ID	Client ID	Parameter	Method	Result	Units
5020449-05	Avis TMW-4 (10-12)	sec-Butylbenzene	8260B	0.90	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	Toluene	8260B	26	mg/kg dry
5020449-05	Avis TMW-4 (10-12)	Xylenes, total	8260B	68	mg/kg dry

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-2
Prism Sample ID: 5020449-01
Prism Work Order: 5020449
Time Collected: 02/25/15 12:20
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.0	1.3	1	*8015C	2/28/15 1:05	JMV	P5B0517
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*70 %*		*49-124*	
General Chemistry Parameters									
% Solids	**77.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis B1
Prism Sample ID: 5020449-02
Prism Work Order: 5020449
Time Collected: 02/25/15 11:15
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	**210**	**mg/kg dry**	**5.5**	**1.2**	**50**	***8015C**	**3/4/15 18:34**	**ANG**	**P5C0069**
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*97 %*		*50-137*	
General Chemistry Parameters									
% Solids	**87.7**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0059	0.00049	1	8260B	2/27/15 15:06	MSC	P5B0514
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0059	0.00029	1	8260B	2/27/15 15:06	MSC	P5B0514
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0059	0.00040	1	8260B	2/27/15 15:06	MSC	P5B0514
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0059	0.00053	1	8260B	2/27/15 15:06	MSC	P5B0514
1,1-Dichloroethane	BRL	mg/kg dry	0.0059	0.00016	1	8260B	2/27/15 15:06	MSC	P5B0514
1,1-Dichloroethylene	BRL	mg/kg dry	0.0059	0.00026	1	8260B	2/27/15 15:06	MSC	P5B0514
1,1-Dichloropropylene	BRL	mg/kg dry	0.0059	0.00032	1	8260B	2/27/15 15:06	MSC	P5B0514
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0059	0.00034	1	8260B	2/27/15 15:06	MSC	P5B0514
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0059	0.00076	1	8260B	2/27/15 15:06	MSC	P5B0514
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0059	0.00044	1	8260B	2/27/15 15:06	MSC	P5B0514
1,2,4-Trimethylbenzene	See 8260ML	mg/kg dry	0.0059	0.00045	1	8260B	2/27/15 15:06	MSC	P5B0514
1,2-Dibromoethane	BRL	mg/kg dry	0.0059	0.00024	1	8260B	2/27/15 15:06	MSC	P5B0514
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0059	0.00028	1	8260B	2/27/15 15:06	MSC	P5B0514
1,2-Dichloroethane	BRL	mg/kg dry	0.0059	0.00035	1	8260B	2/27/15 15:06	MSC	P5B0514
1,2-Dichloropropane	BRL	mg/kg dry	0.0059	0.00037	1	8260B	2/27/15 15:06	MSC	P5B0514
1,3,5-Trimethylbenzene	See 8260ML	mg/kg dry	0.0059	0.00045	1	8260B	2/27/15 15:06	MSC	P5B0514
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0059	0.00039	1	8260B	2/27/15 15:06	MSC	P5B0514
1,3-Dichloropropane	BRL	mg/kg dry	0.0059	0.00030	1	8260B	2/27/15 15:06	MSC	P5B0514
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0059	0.00023	1	8260B	2/27/15 15:06	MSC	P5B0514
2,2-Dichloropropane	BRL	mg/kg dry	0.0059	0.00028	1	8260B	2/27/15 15:06	MSC	P5B0514
2-Chlorotoluene	BRL	mg/kg dry	0.0059	0.00031	1	8260B	2/27/15 15:06	MSC	P5B0514
4-Chlorotoluene	BRL	mg/kg dry	0.0059	0.00035	1	8260B	2/27/15 15:06	MSC	P5B0514
4-Isopropyltoluene	**0.054**	**mg/kg dry**	**0.0059**	**0.00029**	**1**	**8260B**	**2/27/15 15:06**	**MSC**	**P5B0514**
Acetone	BRL	mg/kg dry	0.059	0.0014	1	8260B	2/27/15 15:06	MSC	P5B0514
Benzene	**0.0057**	**mg/kg dry**	**0.0036**	**0.00035**	**1**	**8260B**	**2/27/15 15:06**	**MSC**	**P5B0514**
Bromobenzene	BRL	mg/kg dry	0.0059	0.00049	1	8260B	2/27/15 15:06	MSC	P5B0514
Bromochloromethane	BRL	mg/kg dry	0.0059	0.00033	1	8260B	2/27/15 15:06	MSC	P5B0514
Bromodichloromethane	BRL	mg/kg dry	0.0059	0.00033	1	8260B	2/27/15 15:06	MSC	P5B0514
Bromoform	BRL	mg/kg dry	0.0059	0.00067	1	8260B	2/27/15 15:06	MSC	P5B0514
Bromomethane	BRL	mg/kg dry	0.012	0.00073	1	8260B	2/27/15 15:06	MSC	P5B0514
Carbon Tetrachloride	BRL	mg/kg dry	0.0059	0.00030	1	8260B	2/27/15 15:06	MSC	P5B0514
Chlorobenzene	BRL	mg/kg dry	0.0059	0.00031	1	8260B	2/27/15 15:06	MSC	P5B0514
Chloroethane	BRL	mg/kg dry	0.012	0.00049	1	8260B	2/27/15 15:06	MSC	P5B0514
Chloroform	BRL	mg/kg dry	0.0059	0.00043	1	8260B	2/27/15 15:06	MSC	P5B0514
Chloromethane	BRL	mg/kg dry	0.0059	0.00040	1	8260B	2/27/15 15:06	MSC	P5B0514

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis B1
Prism Sample ID: 5020449-02
Prism Work Order: 5020449
Time Collected: 02/25/15 11:15
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0059	0.00025	1	8260B	2/27/15 15:06	MSC	P5B0514
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0059	0.00020	1	8260B	2/27/15 15:06	MSC	P5B0514
Dibromochloromethane	BRL	mg/kg dry	0.0059	0.00024	1	8260B	2/27/15 15:06	MSC	P5B0514
Dichlorodifluoromethane	BRL	mg/kg dry	0.0059	0.00027	1	8260B	2/27/15 15:06	MSC	P5B0514
Ethanol	BRL	mg/kg dry	0.30	0.12	1	8260B	2/27/15 15:06	MSC	P5B0514
Ethylbenzene	See 8260ML	mg/kg dry	0.0059	0.00023	1	8260B	2/27/15 15:06	MSC	P5B0514
Isopropyl Ether	BRL	mg/kg dry	0.0059	0.00024	1	8260B	2/27/15 15:06	MSC	P5B0514
Isopropylbenzene (Cumene)	**0.23**	**mg/kg dry**	**0.0059**	**0.00035**	**1**	**8260B**	**2/27/15 15:06**	**MSC**	**P5B0514**
m,p-Xylenes	See 8260ML	mg/kg dry	0.012	0.00055	1	8260B	2/27/15 15:06	MSC	P5B0514
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.059	0.00054	1	8260B	2/27/15 15:06	MSC	P5B0514
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00054	1	8260B	2/27/15 15:06	MSC	P5B0514
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.059	0.00051	1	8260B	2/27/15 15:06	MSC	P5B0514
Methylene Chloride	BRL	mg/kg dry	0.0059	0.00033	1	8260B	2/27/15 15:06	MSC	P5B0514
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00019	1	8260B	2/27/15 15:06	MSC	P5B0514
Naphthalene	See 8260ML	mg/kg dry	0.012	0.00019	1	8260B	2/27/15 15:06	MSC	P5B0514
n-Butylbenzene	**0.19**	**mg/kg dry**	**0.0059**	**0.00030**	**1**	**8260B**	**2/27/15 15:06**	**MSC**	**P5B0514**
n-Propylbenzene	See 8260ML	mg/kg dry	0.0059	0.00035	1	8260B	2/27/15 15:06	MSC	P5B0514
o-Xylene	See 8260ML	mg/kg dry	0.0059	0.00024	1	8260B	2/27/15 15:06	MSC	P5B0514
sec-Butylbenzene	**0.093**	**mg/kg dry**	**0.0059**	**0.00029**	**1**	**8260B**	**2/27/15 15:06**	**MSC**	**P5B0514**
Styrene	BRL	mg/kg dry	0.0059	0.00036	1	8260B	2/27/15 15:06	MSC	P5B0514
tert-Amyl Alcohol	BRL	mg/kg dry	0.47	0.0049	1	8260B	2/27/15 15:06	MSC	P5B0514
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.12	0.00051	1	8260B	2/27/15 15:06	MSC	P5B0514
tert-Butyl Alcohol	BRL	mg/kg dry	0.24	0.00042	1	8260B	2/27/15 15:06	MSC	P5B0514
tert-Butyl Formate	BRL	mg/kg dry	0.47	0.00059	1	8260B	2/27/15 15:06	MSC	P5B0514
tert-Butylbenzene	BRL	mg/kg dry	0.0059	0.00020	1	8260B	2/27/15 15:06	MSC	P5B0514
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.12	0.00042	1	8260B	2/27/15 15:06	MSC	P5B0514
Tetrachloroethylene	BRL	mg/kg dry	0.0059	0.00028	1	8260B	2/27/15 15:06	MSC	P5B0514
Toluene	**0.015**	**mg/kg dry**	**0.0059**	**0.00034**	**1**	**8260B**	**2/27/15 15:06**	**MSC**	**P5B0514**
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0059	0.00035	1	8260B	2/27/15 15:06	MSC	P5B0514
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0059	0.00031	1	8260B	2/27/15 15:06	MSC	P5B0514
Trichloroethylene	BRL	mg/kg dry	0.0059	0.00038	1	8260B	2/27/15 15:06	MSC	P5B0514
Trichlorofluoromethane	BRL	mg/kg dry	0.0059	0.00038	1	8260B	2/27/15 15:06	MSC	P5B0514
Vinyl acetate	BRL	mg/kg dry	0.030	0.00081	1	8260B	2/27/15 15:06	MSC	P5B0514
Vinyl chloride	BRL	mg/kg dry	0.0059	0.00029	1	8260B	2/27/15 15:06	MSC	P5B0514
Xylenes, total	See 8260ML	mg/kg dry	0.018	0.0011	1	8260B	2/27/15 15:06	MSC	P5B0514

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*95 %*	*70-130*
Dibromofluoromethane	*85 %*	*84-123*
Toluene-d8	*96 %*	*76-129*

Volatile Organic Compounds by GC/MS (Medium Level)

RLM

1,2,4-Trimethylbenzene	**25**	**mg/kg dry**	**3.1**	**0.70**	**500**	**8260B**	**3/2/15 15:58**	**MSC**	**P5C0017**
1,3,5-Trimethylbenzene	**6.9**	**mg/kg dry**	**3.1**	**0.77**	**500**	**8260B**	**3/2/15 15:58**	**MSC**	**P5C0017**
Ethylbenzene	**2.4**	**mg/kg dry**	**0.31**	**0.072**	**50**	**8260B**	**3/2/15 14:11**	**MSC**	**P5C0017**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis B1
Prism Sample ID: 5020449-02
Prism Work Order: 5020449
Time Collected: 02/25/15 11:15
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
m,p-Xylenes	**8.6**	**mg/kg dry**	**0.63**	**0.15**	**50**	**8260B**	**3/2/15 14:11**	**MSC**	**P5C0017**
Naphthalene	**4.8**	**mg/kg dry**	**0.63**	**0.048**	**50**	**8260B**	**3/2/15 14:11**	**MSC**	**P5C0017**
n-Propylbenzene	**3.3**	**mg/kg dry**	**0.31**	**0.074**	**50**	**8260B**	**3/2/15 14:11**	**MSC**	**P5C0017**
o-Xylene	**4.7**	**mg/kg dry**	**0.31**	**0.069**	**50**	**8260B**	**3/2/15 14:11**	**MSC**	**P5C0017**
Xylenes, total	**13**	**mg/kg dry**	**0.94**	**0.22**	**50**	**8260B**	**3/2/15 14:11**	**MSC**	**P5C0017**

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*152 %*	*70-130*	*SR*
Dibromofluoromethane	*141 %*	*70-130*	*SR*
Toluene-d8	*136 %*	*70-130*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-3
Prism Sample ID: 5020449-03
Prism Work Order: 5020449
Time Collected: 02/25/15 12:00
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	11	0.65	1	MADEP EPH	3/5/15 19:22	KC	P5C0037
C19-C36 Aliphatics	BRL	mg/kg dry	11	2.6	1	MADEP EPH	3/5/15 19:22	KC	P5C0037
C11-C22 Aromatics	BRL	mg/kg dry	11	2.0	1	MADEP EPH	3/5/15 19:22	KC	P5C0037

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*87 %*	*40-140*
o-Terphenyl	*89 %*	*40-140*
2-Fluorobiphenyl	*99 %*	*40-140*
2-Bromonaphthalene	*87 %*	*40-140*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
General Chemistry Parameters									
% Solids	**87.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.38	0.059	1	8270D	3/4/15 11:54	KC	P5C0033
1,2-Dichlorobenzene	BRL	mg/kg dry	0.38	0.057	1	8270D	3/4/15 11:54	KC	P5C0033
1,3-Dichlorobenzene	BRL	mg/kg dry	0.38	0.053	1	8270D	3/4/15 11:54	KC	P5C0033
1,4-Dichlorobenzene	BRL	mg/kg dry	0.38	0.055	1	8270D	3/4/15 11:54	KC	P5C0033
1-Methylnaphthalene	BRL	mg/kg dry	0.38	0.072	1	8270D	3/4/15 11:54	KC	P5C0033
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.38	0.070	1	8270D	3/4/15 11:54	KC	P5C0033
2,4-Dichlorophenol	BRL	mg/kg dry	0.38	0.073	1	8270D	3/4/15 11:54	KC	P5C0033
2,4-Dimethylphenol	BRL	mg/kg dry	0.38	0.058	1	8270D	3/4/15 11:54	KC	P5C0033
2,4-Dinitrophenol	BRL	mg/kg dry	0.38	0.052	1	8270D	3/4/15 11:54	KC	P5C0033
2,4-Dinitrotoluene	BRL	mg/kg dry	0.38	0.046	1	8270D	3/4/15 11:54	KC	P5C0033
2,6-Dinitrotoluene	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 11:54	KC	P5C0033
2-Chloronaphthalene	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 11:54	KC	P5C0033
2-Chlorophenol	BRL	mg/kg dry	0.38	0.053	1	8270D	3/4/15 11:54	KC	P5C0033
2-Methylnaphthalene	BRL	mg/kg dry	0.38	0.060	1	8270D	3/4/15 11:54	KC	P5C0033
2-Methylphenol	BRL	mg/kg dry	0.38	0.048	1	8270D	3/4/15 11:54	KC	P5C0033
2-Nitrophenol	BRL	mg/kg dry	0.38	0.068	1	8270D	3/4/15 11:54	KC	P5C0033
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.38	0.074	1	8270D	3/4/15 11:54	KC	P5C0033
3/4-Methylphenol	BRL	mg/kg dry	0.38	0.046	1	8270D	3/4/15 11:54	KC	P5C0033
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.38	0.056	1	8270D	3/4/15 11:54	KC	P5C0033
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.38	0.064	1	8270D	3/4/15 11:54	KC	P5C0033
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.38	0.053	1	8270D	3/4/15 11:54	KC	P5C0033
4-Chloroaniline	BRL	mg/kg dry	0.38	0.045	1	8270D	3/4/15 11:54	KC	P5C0033
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.38	0.049	1	8270D	3/4/15 11:54	KC	P5C0033
4-Nitrophenol	BRL	mg/kg dry	0.38	0.058	1	8270D	3/4/15 11:54	KC	P5C0033
Acenaphthene	BRL	mg/kg dry	0.38	0.051	1	8270D	3/4/15 11:54	KC	P5C0033
Acenaphthylene	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 11:54	KC	P5C0033
Anthracene	BRL	mg/kg dry	0.38	0.060	1	8270D	3/4/15 11:54	KC	P5C0033
Azobenzene	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 11:54	KC	P5C0033
Benzo(a)anthracene	BRL	mg/kg dry	0.38	0.049	1	8270D	3/4/15 11:54	KC	P5C0033
Benzo(a)pyrene	BRL	mg/kg dry	0.38	0.041	1	8270D	3/4/15 11:54	KC	P5C0033

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-3
Prism Sample ID: 5020449-03
Prism Work Order: 5020449
Time Collected: 02/25/15 12:00
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.38	0.044	1	8270D	3/4/15 11:54	KC	P5C0033
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.38	0.041	1	8270D	3/4/15 11:54	KC	P5C0033
Benzo(k)fluoranthene	BRL	mg/kg dry	0.38	0.049	1	8270D	3/4/15 11:54	KC	P5C0033
Benzoic Acid	BRL CCV	mg/kg dry	0.38	0.032	1	8270D	3/4/15 11:54	KC	P5C0033
Benzyl alcohol	BRL	mg/kg dry	0.38	0.049	1	8270D	3/4/15 11:54	KC	P5C0033
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.38	0.065	1	8270D	3/4/15 11:54	KC	P5C0033
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.38	0.053	1	8270D	3/4/15 11:54	KC	P5C0033
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.38	0.064	1	8270D	3/4/15 11:54	KC	P5C0033
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.38	0.056	1	8270D	3/4/15 11:54	KC	P5C0033
Butyl benzyl phthalate	BRL	mg/kg dry	0.38	0.053	1	8270D	3/4/15 11:54	KC	P5C0033
Chrysene	BRL	mg/kg dry	0.38	0.047	1	8270D	3/4/15 11:54	KC	P5C0033
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.38	0.046	1	8270D	3/4/15 11:54	KC	P5C0033
Dibenzofuran	BRL	mg/kg dry	0.38	0.057	1	8270D	3/4/15 11:54	KC	P5C0033
Diethyl phthalate	BRL	mg/kg dry	0.38	0.052	1	8270D	3/4/15 11:54	KC	P5C0033
Dimethyl phthalate	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 11:54	KC	P5C0033
Di-n-butyl phthalate	BRL	mg/kg dry	0.38	0.053	1	8270D	3/4/15 11:54	KC	P5C0033
Di-n-octyl phthalate	BRL	mg/kg dry	0.38	0.046	1	8270D	3/4/15 11:54	KC	P5C0033
Fluoranthene	BRL	mg/kg dry	0.38	0.048	1	8270D	3/4/15 11:54	KC	P5C0033
Fluorene	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 11:54	KC	P5C0033
Hexachlorobenzene	BRL	mg/kg dry	0.38	0.060	1	8270D	3/4/15 11:54	KC	P5C0033
Hexachlorobutadiene	BRL	mg/kg dry	0.38	0.067	1	8270D	3/4/15 11:54	KC	P5C0033
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.38	0.067	1	8270D	3/4/15 11:54	KC	P5C0033
Hexachloroethane	BRL	mg/kg dry	0.38	0.063	1	8270D	3/4/15 11:54	KC	P5C0033
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.38	0.043	1	8270D	3/4/15 11:54	KC	P5C0033
Isophorone	BRL	mg/kg dry	0.38	0.051	1	8270D	3/4/15 11:54	KC	P5C0033
Naphthalene	BRL	mg/kg dry	0.38	0.060	1	8270D	3/4/15 11:54	KC	P5C0033
Nitrobenzene	BRL	mg/kg dry	0.38	0.053	1	8270D	3/4/15 11:54	KC	P5C0033
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.38	0.059	1	8270D	3/4/15 11:54	KC	P5C0033
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.38	0.057	1	8270D	3/4/15 11:54	KC	P5C0033
Pentachlorophenol	BRL	mg/kg dry	0.38	0.044	1	8270D	3/4/15 11:54	KC	P5C0033
Phenanthrene	BRL	mg/kg dry	0.38	0.049	1	8270D	3/4/15 11:54	KC	P5C0033
Phenol	BRL	mg/kg dry	0.38	0.055	1	8270D	3/4/15 11:54	KC	P5C0033
Pyrene	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 11:54	KC	P5C0033

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*89 %*	*39-132*
2-Fluorobiphenyl	*96 %*	*44-115*
2-Fluorophenol	*93 %*	*35-115*
Nitrobenzene-d5	*87 %*	*37-122*
Phenol-d5	*86 %*	*34-121*
Terphenyl-d14	*106 %*	*54-127*

Total Metals

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chromium	**4.1**	**mg/kg dry**	**0.28**	**0.046**	**1**	***6010C**	**3/3/15 20:08**	**BGM**	**P5C0003**
Lead	**3.9**	**mg/kg dry**	**0.28**	**0.042**	**1**	***6010C**	**3/3/15 20:08**	**BGM**	**P5C0003**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-3
Prism Sample ID: 5020449-03
Prism Work Order: 5020449
Time Collected: 02/25/15 12:00
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0061	0.00050	1	8260B	2/27/15 13:54	MSC	P5B0514
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0061	0.00030	1	8260B	2/27/15 13:54	MSC	P5B0514
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0061	0.00041	1	8260B	2/27/15 13:54	MSC	P5B0514
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0061	0.00054	1	8260B	2/27/15 13:54	MSC	P5B0514
1,1-Dichloroethane	BRL	mg/kg dry	0.0061	0.00017	1	8260B	2/27/15 13:54	MSC	P5B0514
1,1-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00027	1	8260B	2/27/15 13:54	MSC	P5B0514
1,1-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00033	1	8260B	2/27/15 13:54	MSC	P5B0514
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0061	0.00035	1	8260B	2/27/15 13:54	MSC	P5B0514
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0061	0.00078	1	8260B	2/27/15 13:54	MSC	P5B0514
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0061	0.00045	1	8260B	2/27/15 13:54	MSC	P5B0514
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0061	0.00047	1	8260B	2/27/15 13:54	MSC	P5B0514
1,2-Dibromoethane	BRL	mg/kg dry	0.0061	0.00025	1	8260B	2/27/15 13:54	MSC	P5B0514
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.00029	1	8260B	2/27/15 13:54	MSC	P5B0514
1,2-Dichloroethane	BRL	mg/kg dry	0.0061	0.00036	1	8260B	2/27/15 13:54	MSC	P5B0514
1,2-Dichloropropane	BRL	mg/kg dry	0.0061	0.00038	1	8260B	2/27/15 13:54	MSC	P5B0514
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0061	0.00046	1	8260B	2/27/15 13:54	MSC	P5B0514
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.00040	1	8260B	2/27/15 13:54	MSC	P5B0514
1,3-Dichloropropane	BRL	mg/kg dry	0.0061	0.00031	1	8260B	2/27/15 13:54	MSC	P5B0514
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.00024	1	8260B	2/27/15 13:54	MSC	P5B0514
2,2-Dichloropropane	BRL	mg/kg dry	0.0061	0.00029	1	8260B	2/27/15 13:54	MSC	P5B0514
2-Chlorotoluene	BRL	mg/kg dry	0.0061	0.00032	1	8260B	2/27/15 13:54	MSC	P5B0514
4-Chlorotoluene	BRL	mg/kg dry	0.0061	0.00036	1	8260B	2/27/15 13:54	MSC	P5B0514
4-Isopropyltoluene	BRL	mg/kg dry	0.0061	0.00029	1	8260B	2/27/15 13:54	MSC	P5B0514
Acetone	BRL	mg/kg dry	0.061	0.0015	1	8260B	2/27/15 13:54	MSC	P5B0514
Benzene	BRL	mg/kg dry	0.0037	0.00036	1	8260B	2/27/15 13:54	MSC	P5B0514
Bromobenzene	BRL	mg/kg dry	0.0061	0.00051	1	8260B	2/27/15 13:54	MSC	P5B0514
Bromochloromethane	BRL	mg/kg dry	0.0061	0.00034	1	8260B	2/27/15 13:54	MSC	P5B0514
Bromodichloromethane	BRL	mg/kg dry	0.0061	0.00034	1	8260B	2/27/15 13:54	MSC	P5B0514
Bromoform	BRL	mg/kg dry	0.0061	0.00069	1	8260B	2/27/15 13:54	MSC	P5B0514
Bromomethane	BRL	mg/kg dry	0.012	0.00075	1	8260B	2/27/15 13:54	MSC	P5B0514
Carbon Tetrachloride	BRL	mg/kg dry	0.0061	0.00030	1	8260B	2/27/15 13:54	MSC	P5B0514
Chlorobenzene	BRL	mg/kg dry	0.0061	0.00032	1	8260B	2/27/15 13:54	MSC	P5B0514
Chloroethane	BRL	mg/kg dry	0.012	0.00051	1	8260B	2/27/15 13:54	MSC	P5B0514
Chloroform	BRL	mg/kg dry	0.0061	0.00044	1	8260B	2/27/15 13:54	MSC	P5B0514
Chloromethane	BRL	mg/kg dry	0.0061	0.00041	1	8260B	2/27/15 13:54	MSC	P5B0514
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00026	1	8260B	2/27/15 13:54	MSC	P5B0514
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00021	1	8260B	2/27/15 13:54	MSC	P5B0514
Dibromochloromethane	BRL	mg/kg dry	0.0061	0.00025	1	8260B	2/27/15 13:54	MSC	P5B0514
Dichlorodifluoromethane	BRL	mg/kg dry	0.0061	0.00028	1	8260B	2/27/15 13:54	MSC	P5B0514
Ethanol	BRL	mg/kg dry	0.31	0.12	1	8260B	2/27/15 13:54	MSC	P5B0514
Ethylbenzene	BRL	mg/kg dry	0.0061	0.00023	1	8260B	2/27/15 13:54	MSC	P5B0514
Isopropyl Ether	BRL	mg/kg dry	0.0061	0.00025	1	8260B	2/27/15 13:54	MSC	P5B0514

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-3
Prism Sample ID: 5020449-03
Prism Work Order: 5020449
Time Collected: 02/25/15 12:00
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0061	0.00036	1	8260B	2/27/15 13:54	MSC	P5B0514
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00056	1	8260B	2/27/15 13:54	MSC	P5B0514
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.061	0.00055	1	8260B	2/27/15 13:54	MSC	P5B0514
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00055	1	8260B	2/27/15 13:54	MSC	P5B0514
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.061	0.00052	1	8260B	2/27/15 13:54	MSC	P5B0514
Methylene Chloride	BRL	mg/kg dry	0.0061	0.00034	1	8260B	2/27/15 13:54	MSC	P5B0514
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00020	1	8260B	2/27/15 13:54	MSC	P5B0514
Naphthalene	BRL	mg/kg dry	0.012	0.00019	1	8260B	2/27/15 13:54	MSC	P5B0514
n-Butylbenzene	BRL	mg/kg dry	0.0061	0.00031	1	8260B	2/27/15 13:54	MSC	P5B0514
n-Propylbenzene	BRL	mg/kg dry	0.0061	0.00036	1	8260B	2/27/15 13:54	MSC	P5B0514
o-Xylene	BRL	mg/kg dry	0.0061	0.00025	1	8260B	2/27/15 13:54	MSC	P5B0514
sec-Butylbenzene	BRL	mg/kg dry	0.0061	0.00030	1	8260B	2/27/15 13:54	MSC	P5B0514
Styrene	BRL	mg/kg dry	0.0061	0.00037	1	8260B	2/27/15 13:54	MSC	P5B0514
tert-Amyl Alcohol	BRL	mg/kg dry	0.49	0.0051	1	8260B	2/27/15 13:54	MSC	P5B0514
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.12	0.00052	1	8260B	2/27/15 13:54	MSC	P5B0514
tert-Butyl Alcohol	BRL	mg/kg dry	0.24	0.00043	1	8260B	2/27/15 13:54	MSC	P5B0514
tert-Butyl Formate	BRL	mg/kg dry	0.49	0.00061	1	8260B	2/27/15 13:54	MSC	P5B0514
tert-Butylbenzene	BRL	mg/kg dry	0.0061	0.00021	1	8260B	2/27/15 13:54	MSC	P5B0514
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.12	0.00043	1	8260B	2/27/15 13:54	MSC	P5B0514
Tetrachloroethylene	BRL	mg/kg dry	0.0061	0.00029	1	8260B	2/27/15 13:54	MSC	P5B0514
Toluene	BRL	mg/kg dry	0.0061	0.00035	1	8260B	2/27/15 13:54	MSC	P5B0514
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00037	1	8260B	2/27/15 13:54	MSC	P5B0514
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00032	1	8260B	2/27/15 13:54	MSC	P5B0514
Trichloroethylene	BRL	mg/kg dry	0.0061	0.00040	1	8260B	2/27/15 13:54	MSC	P5B0514
Trichlorofluoromethane	BRL	mg/kg dry	0.0061	0.00039	1	8260B	2/27/15 13:54	MSC	P5B0514
Vinyl acetate	BRL	mg/kg dry	0.031	0.00084	1	8260B	2/27/15 13:54	MSC	P5B0514
Vinyl chloride	BRL	mg/kg dry	0.0061	0.00030	1	8260B	2/27/15 13:54	MSC	P5B0514
Xylenes, total	BRL	mg/kg dry	0.018	0.0011	1	8260B	2/27/15 13:54	MSC	P5B0514

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*94 %*	*70-130*
Dibromofluoromethane	*94 %*	*84-123*
Toluene-d8	*94 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.5	0.21	100	MADEP VPH	3/2/15 20:48	ANG	P5C0018
C9-C12 Aliphatics	BRL	mg/kg dry	5.5	0.50	100	MADEP VPH	3/2/15 20:48	ANG	P5C0018
C9-C10 Aromatics	BRL	mg/kg dry	5.5	0.047	100	MADEP VPH	3/2/15 20:48	ANG	P5C0018

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*123 %*	*70-130*
2,5-Dibromotoluene (FID)	*126 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-4 (6-8)
Prism Sample ID: 5020449-04
Prism Work Order: 5020449
Time Collected: 02/25/15 09:30
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	**3000**	**mg/kg dry**	**140**	**30**	**1000**	***8015C**	**3/5/15 6:44**	**ANG**	**P5C0069**
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*0 %*		*50-137*	*DO*
General Chemistry Parameters									
% Solids	**71.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS (Medium Level)									RLM
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	1.5	0.37	200	8260B	3/2/15 18:57	MSC	P5C0017
1,1,1-Trichloroethane	BRL	mg/kg dry	1.5	0.34	200	8260B	3/2/15 18:57	MSC	P5C0017
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	1.5	0.29	200	8260B	3/2/15 18:57	MSC	P5C0017
1,1,2-Trichloroethane	BRL	mg/kg dry	1.5	0.36	200	8260B	3/2/15 18:57	MSC	P5C0017
1,1-Dichloroethane	BRL	mg/kg dry	1.5	0.39	200	8260B	3/2/15 18:57	MSC	P5C0017
1,1-Dichloroethylene	BRL	mg/kg dry	1.5	0.42	200	8260B	3/2/15 18:57	MSC	P5C0017
1,1-Dichloropropylene	BRL	mg/kg dry	1.5	0.34	200	8260B	3/2/15 18:57	MSC	P5C0017
1,2,3-Trichlorobenzene	BRL	mg/kg dry	2.9	0.35	200	8260B	3/2/15 18:57	MSC	P5C0017
1,2,3-Trichloropropane	BRL	mg/kg dry	1.5	0.52	200	8260B	3/2/15 18:57	MSC	P5C0017
1,2,4-Trichlorobenzene	BRL	mg/kg dry	2.9	0.32	200	8260B	3/2/15 18:57	MSC	P5C0017
1,2,4-Trimethylbenzene	**160**	**mg/kg dry**	**15**	**3.3**	**2000**	**8260B**	**3/2/15 19:32**	**MSC**	**P5C0017**
1,2-Dibromoethane	BRL	mg/kg dry	1.5	0.33	200	8260B	3/2/15 18:57	MSC	P5C0017
1,2-Dichlorobenzene	BRL	mg/kg dry	1.5	0.32	200	8260B	3/2/15 18:57	MSC	P5C0017
1,2-Dichloroethane	BRL	mg/kg dry	1.5	0.32	200	8260B	3/2/15 18:57	MSC	P5C0017
1,2-Dichloropropane	BRL	mg/kg dry	1.5	0.29	200	8260B	3/2/15 18:57	MSC	P5C0017
1,3,5-Trimethylbenzene	**46**	**mg/kg dry**	**15**	**3.6**	**2000**	**8260B**	**3/2/15 19:32**	**MSC**	**P5C0017**
1,3-Dichlorobenzene	BRL	mg/kg dry	1.5	0.29	200	8260B	3/2/15 18:57	MSC	P5C0017
1,3-Dichloropropane	BRL	mg/kg dry	1.5	0.35	200	8260B	3/2/15 18:57	MSC	P5C0017
1,4-Dichlorobenzene	BRL	mg/kg dry	1.5	0.39	200	8260B	3/2/15 18:57	MSC	P5C0017
2,2-Dichloropropane	BRL	mg/kg dry	1.5	0.34	200	8260B	3/2/15 18:57	MSC	P5C0017
2-Chlorotoluene	BRL	mg/kg dry	1.5	0.40	200	8260B	3/2/15 18:57	MSC	P5C0017
4-Chlorotoluene	BRL	mg/kg dry	1.5	0.34	200	8260B	3/2/15 18:57	MSC	P5C0017
4-Isopropyltoluene	**1.5**	**mg/kg dry**	**1.5**	**0.37**	**200**	**8260B**	**3/2/15 18:57**	**MSC**	**P5C0017**
Acetone	BRL	mg/kg dry	5.9	1.1	200	8260B	3/2/15 18:57	MSC	P5C0017
Benzene	**11**	**mg/kg dry**	**1.5**	**0.33**	**200**	**8260B**	**3/2/15 18:57**	**MSC**	**P5C0017**
Bromobenzene	BRL	mg/kg dry	1.5	0.35	200	8260B	3/2/15 18:57	MSC	P5C0017
Bromochloromethane	BRL	mg/kg dry	1.5	0.39	200	8260B	3/2/15 18:57	MSC	P5C0017
Bromodichloromethane	BRL	mg/kg dry	1.5	0.33	200	8260B	3/2/15 18:57	MSC	P5C0017
Bromoform	BRL	mg/kg dry	1.5	0.40	200	8260B	3/2/15 18:57	MSC	P5C0017
Bromomethane	BRL	mg/kg dry	2.9	0.39	200	8260B	3/2/15 18:57	MSC	P5C0017
Carbon Tetrachloride	BRL	mg/kg dry	1.5	0.36	200	8260B	3/2/15 18:57	MSC	P5C0017
Chlorobenzene	BRL	mg/kg dry	1.5	0.30	200	8260B	3/2/15 18:57	MSC	P5C0017
Chloroethane	BRL	mg/kg dry	2.9	0.30	200	8260B	3/2/15 18:57	MSC	P5C0017
Chloroform	BRL	mg/kg dry	1.5	0.34	200	8260B	3/2/15 18:57	MSC	P5C0017

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-4 (6-8)
Prism Sample ID: 5020449-04
Prism Work Order: 5020449
Time Collected: 02/25/15 09:30
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	mg/kg dry	2.9	0.33	200	8260B	3/2/15 18:57	MSC	P5C0017
cis-1,2-Dichloroethylene	BRL	mg/kg dry	1.5	0.31	200	8260B	3/2/15 18:57	MSC	P5C0017
cis-1,3-Dichloropropylene	BRL	mg/kg dry	1.5	0.33	200	8260B	3/2/15 18:57	MSC	P5C0017
Dibromochloromethane	BRL	mg/kg dry	1.5	0.31	200	8260B	3/2/15 18:57	MSC	P5C0017
Dichlorodifluoromethane	BRL	mg/kg dry	2.9	0.38	200	8260B	3/2/15 18:57	MSC	P5C0017
Ethanol	BRL	mg/kg dry	74	2.9	200	8260B	3/2/15 18:57	MSC	P5C0017
Ethylbenzene	**49**	**mg/kg dry**	**15**	**3.4**	**2000**	**8260B**	**3/2/15 19:32**	**MSC**	**P5C0017**
Isopropyl Ether	BRL	mg/kg dry	1.5	0.31	200	8260B	3/2/15 18:57	MSC	P5C0017
Isopropylbenzene (Cumene)	**5.9**	**mg/kg dry**	**1.5**	**0.34**	**200**	**8260B**	**3/2/15 18:57**	**MSC**	**P5C0017**
m,p-Xylenes	**180**	**mg/kg dry**	**29**	**7.1**	**2000**	**8260B**	**3/2/15 19:32**	**MSC**	**P5C0017**
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	5.9	0.33	200	8260B	3/2/15 18:57	MSC	P5C0017
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	5.9	0.24	200	8260B	3/2/15 18:57	MSC	P5C0017
Methyl Isobutyl Ketone	BRL	mg/kg dry	5.9	0.26	200	8260B	3/2/15 18:57	MSC	P5C0017
Methylene Chloride	BRL	mg/kg dry	1.5	0.32	200	8260B	3/2/15 18:57	MSC	P5C0017
Methyl-tert-Butyl Ether	BRL	mg/kg dry	1.5	0.31	200	8260B	3/2/15 18:57	MSC	P5C0017
Naphthalene	**28**	**mg/kg dry**	**2.9**	**0.22**	**200**	**8260B**	**3/2/15 18:57**	**MSC**	**P5C0017**
n-Butylbenzene	**11**	**mg/kg dry**	**1.5**	**0.29**	**200**	**8260B**	**3/2/15 18:57**	**MSC**	**P5C0017**
n-Propylbenzene	**24**	**mg/kg dry**	**1.5**	**0.35**	**200**	**8260B**	**3/2/15 18:57**	**MSC**	**P5C0017**
o-Xylene	**76**	**mg/kg dry**	**15**	**3.2**	**2000**	**8260B**	**3/2/15 19:32**	**MSC**	**P5C0017**
sec-Butylbenzene	**2.7**	**mg/kg dry**	**1.5**	**0.37**	**200**	**8260B**	**3/2/15 18:57**	**MSC**	**P5C0017**
Styrene	BRL	mg/kg dry	1.5	0.33	200	8260B	3/2/15 18:57	MSC	P5C0017
tert-Amyl Alcohol	BRL LH	mg/kg dry	120	1.2	200	8260B	3/2/15 18:57	MSC	P5C0017
tert-Amyl Methyl Ether	BRL	mg/kg dry	29	0.13	200	8260B	3/2/15 18:57	MSC	P5C0017
tert-Butyl Alcohol	BRL	mg/kg dry	59	0.10	200	8260B	3/2/15 18:57	MSC	P5C0017
tert-Butyl Formate	BRL	mg/kg dry	120	0.15	200	8260B	3/2/15 18:57	MSC	P5C0017
tert-Butylbenzene	BRL	mg/kg dry	1.5	0.34	200	8260B	3/2/15 18:57	MSC	P5C0017
tert-Butyl Ethyl Ether	BRL	mg/kg dry	29	0.10	200	8260B	3/2/15 18:57	MSC	P5C0017
Tetrachloroethylene	BRL	mg/kg dry	1.5	0.31	200	8260B	3/2/15 18:57	MSC	P5C0017
Toluene	**140**	**mg/kg dry**	**15**	**3.1**	**2000**	**8260B**	**3/2/15 19:32**	**MSC**	**P5C0017**
trans-1,2-Dichloroethylene	BRL	mg/kg dry	1.5	0.34	200	8260B	3/2/15 18:57	MSC	P5C0017
trans-1,3-Dichloropropylene	BRL	mg/kg dry	1.5	0.32	200	8260B	3/2/15 18:57	MSC	P5C0017
Trichloroethylene	BRL	mg/kg dry	1.5	0.32	200	8260B	3/2/15 18:57	MSC	P5C0017
Trichlorofluoromethane	BRL	mg/kg dry	2.9	0.42	200	8260B	3/2/15 18:57	MSC	P5C0017
Vinyl acetate	BRL	mg/kg dry	5.9	0.25	200	8260B	3/2/15 18:57	MSC	P5C0017
Vinyl chloride	BRL	mg/kg dry	2.9	0.41	200	8260B	3/2/15 18:57	MSC	P5C0017
Xylenes, total	**260**	**mg/kg dry**	**44**	**10**	**2000**	**8260B**	**3/2/15 19:32**	**MSC**	**P5C0017**

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*182 %*	*70-130*	*SR*
Dibromofluoromethane	*160 %*	*70-130*	*SR*
Toluene-d8	*167 %*	*70-130*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-4 (10-12)
Prism Sample ID: 5020449-05
Prism Work Order: 5020449
Time Collected: 02/25/15 11:00
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	**560**	**mg/kg dry**	**55**	**12**	**500**	***8015C**	**3/5/15 5:48**	**ANG**	**P5C0069**
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*0 %*		*50-137*	*DO*
General Chemistry Parameters									
% Solids	**80.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS (Medium Level)									RLM
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.27	0.070	50	8260B	3/2/15 17:10	MSC	P5C0017
1,1,1-Trichloroethane	BRL	mg/kg dry	0.27	0.064	50	8260B	3/2/15 17:10	MSC	P5C0017
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.27	0.053	50	8260B	3/2/15 17:10	MSC	P5C0017
1,1,2-Trichloroethane	BRL	mg/kg dry	0.27	0.067	50	8260B	3/2/15 17:10	MSC	P5C0017
1,1-Dichloroethane	BRL	mg/kg dry	0.27	0.073	50	8260B	3/2/15 17:10	MSC	P5C0017
1,1-Dichloroethylene	BRL	mg/kg dry	0.27	0.079	50	8260B	3/2/15 17:10	MSC	P5C0017
1,1-Dichloropropylene	BRL	mg/kg dry	0.27	0.062	50	8260B	3/2/15 17:10	MSC	P5C0017
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.55	0.065	50	8260B	3/2/15 17:10	MSC	P5C0017
1,2,3-Trichloropropane	BRL	mg/kg dry	0.27	0.096	50	8260B	3/2/15 17:10	MSC	P5C0017
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.55	0.060	50	8260B	3/2/15 17:10	MSC	P5C0017
1,2,4-Trimethylbenzene	**50**	**mg/kg dry**	**2.7**	**0.61**	**500**	**8260B**	**3/2/15 17:46**	**MSC**	**P5C0017**
1,2-Dibromoethane	BRL	mg/kg dry	0.27	0.061	50	8260B	3/2/15 17:10	MSC	P5C0017
1,2-Dichlorobenzene	BRL	mg/kg dry	0.27	0.060	50	8260B	3/2/15 17:10	MSC	P5C0017
1,2-Dichloroethane	BRL	mg/kg dry	0.27	0.059	50	8260B	3/2/15 17:10	MSC	P5C0017
1,2-Dichloropropane	BRL	mg/kg dry	0.27	0.055	50	8260B	3/2/15 17:10	MSC	P5C0017
1,3,5-Trimethylbenzene	**14**	**mg/kg dry**	**2.7**	**0.67**	**500**	**8260B**	**3/2/15 17:46**	**MSC**	**P5C0017**
1,3-Dichlorobenzene	BRL	mg/kg dry	0.27	0.054	50	8260B	3/2/15 17:10	MSC	P5C0017
1,3-Dichloropropane	BRL	mg/kg dry	0.27	0.066	50	8260B	3/2/15 17:10	MSC	P5C0017
1,4-Dichlorobenzene	BRL	mg/kg dry	0.27	0.072	50	8260B	3/2/15 17:10	MSC	P5C0017
2,2-Dichloropropane	BRL	mg/kg dry	0.27	0.063	50	8260B	3/2/15 17:10	MSC	P5C0017
2-Chlorotoluene	BRL	mg/kg dry	0.27	0.075	50	8260B	3/2/15 17:10	MSC	P5C0017
4-Chlorotoluene	BRL	mg/kg dry	0.27	0.064	50	8260B	3/2/15 17:10	MSC	P5C0017
4-Isopropyltoluene	**0.53**	**mg/kg dry**	**0.27**	**0.069**	**50**	**8260B**	**3/2/15 17:10**	**MSC**	**P5C0017**
Acetone	BRL	mg/kg dry	1.1	0.21	50	8260B	3/2/15 17:10	MSC	P5C0017
Benzene	**1.5**	**mg/kg dry**	**0.27**	**0.061**	**50**	**8260B**	**3/2/15 17:10**	**MSC**	**P5C0017**
Bromobenzene	BRL	mg/kg dry	0.27	0.064	50	8260B	3/2/15 17:10	MSC	P5C0017
Bromochloromethane	BRL	mg/kg dry	0.27	0.072	50	8260B	3/2/15 17:10	MSC	P5C0017
Bromodichloromethane	BRL	mg/kg dry	0.27	0.062	50	8260B	3/2/15 17:10	MSC	P5C0017
Bromoform	BRL	mg/kg dry	0.27	0.074	50	8260B	3/2/15 17:10	MSC	P5C0017
Bromomethane	BRL	mg/kg dry	0.55	0.072	50	8260B	3/2/15 17:10	MSC	P5C0017
Carbon Tetrachloride	BRL	mg/kg dry	0.27	0.066	50	8260B	3/2/15 17:10	MSC	P5C0017
Chlorobenzene	BRL	mg/kg dry	0.27	0.055	50	8260B	3/2/15 17:10	MSC	P5C0017
Chloroethane	BRL	mg/kg dry	0.55	0.057	50	8260B	3/2/15 17:10	MSC	P5C0017
Chloroform	BRL	mg/kg dry	0.27	0.064	50	8260B	3/2/15 17:10	MSC	P5C0017

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Avis TMW-4 (10-12)
Prism Sample ID: 5020449-05
Prism Work Order: 5020449
Time Collected: 02/25/15 11:00
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	mg/kg dry	0.55	0.061	50	8260B	3/2/15 17:10	MSC	P5C0017
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.27	0.058	50	8260B	3/2/15 17:10	MSC	P5C0017
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.27	0.060	50	8260B	3/2/15 17:10	MSC	P5C0017
Dibromochloromethane	BRL	mg/kg dry	0.27	0.059	50	8260B	3/2/15 17:10	MSC	P5C0017
Dichlorodifluoromethane	BRL	mg/kg dry	0.55	0.071	50	8260B	3/2/15 17:10	MSC	P5C0017
Ethanol	BRL	mg/kg dry	14	0.55	50	8260B	3/2/15 17:10	MSC	P5C0017
Ethylbenzene	**13**	**mg/kg dry**	**2.7**	**0.62**	**500**	**8260B**	**3/2/15 17:46**	**MSC**	**P5C0017**
Isopropyl Ether	BRL	mg/kg dry	0.27	0.057	50	8260B	3/2/15 17:10	MSC	P5C0017
Isopropylbenzene (Cumene)	**1.7**	**mg/kg dry**	**0.27**	**0.064**	**50**	**8260B**	**3/2/15 17:10**	**MSC**	**P5C0017**
m,p-Xylenes	**46**	**mg/kg dry**	**5.5**	**1.3**	**500**	**8260B**	**3/2/15 17:46**	**MSC**	**P5C0017**
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	1.1	0.062	50	8260B	3/2/15 17:10	MSC	P5C0017
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	1.1	0.045	50	8260B	3/2/15 17:10	MSC	P5C0017
Methyl Isobutyl Ketone	BRL	mg/kg dry	1.1	0.048	50	8260B	3/2/15 17:10	MSC	P5C0017
Methylene Chloride	BRL	mg/kg dry	0.27	0.059	50	8260B	3/2/15 17:10	MSC	P5C0017
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.27	0.057	50	8260B	3/2/15 17:10	MSC	P5C0017
Naphthalene	**11**	**mg/kg dry**	**5.5**	**0.42**	**500**	**8260B**	**3/2/15 17:46**	**MSC**	**P5C0017**
n-Butylbenzene	**3.9**	**mg/kg dry**	**0.27**	**0.055**	**50**	**8260B**	**3/2/15 17:10**	**MSC**	**P5C0017**
n-Propylbenzene	**7.4**	**mg/kg dry**	**2.7**	**0.65**	**500**	**8260B**	**3/2/15 17:46**	**MSC**	**P5C0017**
o-Xylene	**22**	**mg/kg dry**	**2.7**	**0.60**	**500**	**8260B**	**3/2/15 17:46**	**MSC**	**P5C0017**
sec-Butylbenzene	**0.90**	**mg/kg dry**	**0.27**	**0.068**	**50**	**8260B**	**3/2/15 17:10**	**MSC**	**P5C0017**
Styrene	BRL	mg/kg dry	0.27	0.061	50	8260B	3/2/15 17:10	MSC	P5C0017
tert-Amyl Alcohol	BRL LH	mg/kg dry	22	0.23	50	8260B	3/2/15 17:10	MSC	P5C0017
tert-Amyl Methyl Ether	BRL	mg/kg dry	5.5	0.023	50	8260B	3/2/15 17:10	MSC	P5C0017
tert-Butyl Alcohol	BRL	mg/kg dry	11	0.019	50	8260B	3/2/15 17:10	MSC	P5C0017
tert-Butyl Formate	BRL	mg/kg dry	22	0.027	50	8260B	3/2/15 17:10	MSC	P5C0017
tert-Butylbenzene	BRL	mg/kg dry	0.27	0.064	50	8260B	3/2/15 17:10	MSC	P5C0017
tert-Butyl Ethyl Ether	BRL	mg/kg dry	5.5	0.019	50	8260B	3/2/15 17:10	MSC	P5C0017
Tetrachloroethylene	BRL	mg/kg dry	0.27	0.058	50	8260B	3/2/15 17:10	MSC	P5C0017
Toluene	**26**	**mg/kg dry**	**2.7**	**0.58**	**500**	**8260B**	**3/2/15 17:46**	**MSC**	**P5C0017**
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.27	0.063	50	8260B	3/2/15 17:10	MSC	P5C0017
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.27	0.059	50	8260B	3/2/15 17:10	MSC	P5C0017
Trichloroethylene	BRL	mg/kg dry	0.27	0.060	50	8260B	3/2/15 17:10	MSC	P5C0017
Trichlorofluoromethane	BRL	mg/kg dry	0.55	0.078	50	8260B	3/2/15 17:10	MSC	P5C0017
Vinyl acetate	BRL	mg/kg dry	1.1	0.046	50	8260B	3/2/15 17:10	MSC	P5C0017
Vinyl chloride	BRL	mg/kg dry	0.55	0.076	50	8260B	3/2/15 17:10	MSC	P5C0017
Xylenes, total	**68**	**mg/kg dry**	**8.2**	**1.9**	**500**	**8260B**	**3/2/15 17:46**	**MSC**	**P5C0017**

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*162 %*	*70-130*	*SR*
Dibromofluoromethane	*142 %*	*70-130*	*SR*
Toluene-d8	*146 %*	*70-130*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
Blank (P5B0514-BLK1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethanol	BRL	0.25	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
Blank (P5B0514-BLK1)			Prepared & Analyzed: 02/27/15							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Amyl Alcohol	BRL	0.40	mg/kg wet							
tert-Amyl Methyl Ether	BRL	0.10	mg/kg wet							
tert-Butyl Alcohol	BRL	0.20	mg/kg wet							
tert-Butyl Formate	BRL	0.40	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
tert-Butyl Ethyl Ether	BRL	0.10	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0516*		*mg/kg wet*	*0.05000*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0502*		*mg/kg wet*	*0.05000*		*100*	*84-123*			
Surrogate: Toluene-d8	*0.0501*		*mg/kg wet*	*0.05000*		*100*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS (P5B0514-BS1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	0.0536	0.0050	mg/kg wet	0.05000		107	72-115			
1,1,1-Trichloroethane	0.0514	0.0050	mg/kg wet	0.05000		103	67-131			
1,1,2,2-Tetrachloroethane	0.0532	0.0050	mg/kg wet	0.05000		106	56-126			
1,1,2-Trichloroethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-133			
1,1-Dichloroethane	0.0504	0.0050	mg/kg wet	0.05000		101	74-127			
1,1-Dichloroethylene	0.0519	0.0050	mg/kg wet	0.05000		104	67-149			
1,1-Dichloropropylene	0.0549	0.0050	mg/kg wet	0.05000		110	71-130			
1,2,3-Trichlorobenzene	0.0547	0.0050	mg/kg wet	0.05000		109	68-130			
1,2,3-Trichloropropane	0.0528	0.0050	mg/kg wet	0.05000		106	60-137			
1,2,4-Trichlorobenzene	0.0550	0.0050	mg/kg wet	0.05000		110	66-125			
1,2,4-Trimethylbenzene	0.0561	0.0050	mg/kg wet	0.05000		112	69-129			
1,2-Dibromoethane	0.0539	0.0050	mg/kg wet	0.05000		108	70-132			
1,2-Dichlorobenzene	0.0531	0.0050	mg/kg wet	0.05000		106	72-123			
1,2-Dichloroethane	0.0491	0.0050	mg/kg wet	0.05000		98	68-128			
1,2-Dichloropropane	0.0513	0.0050	mg/kg wet	0.05000		103	73-130			
1,3,5-Trimethylbenzene	0.0563	0.0050	mg/kg wet	0.05000		113	69-128			
1,3-Dichlorobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	71-120			
1,3-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	75-124			
1,4-Dichlorobenzene	0.0536	0.0050	mg/kg wet	0.05000		107	71-123			
2,2-Dichloropropane	0.0534	0.0050	mg/kg wet	0.05000		107	50-142			
2-Chlorotoluene	0.0546	0.0050	mg/kg wet	0.05000		109	67-124			
4-Chlorotoluene	0.0544	0.0050	mg/kg wet	0.05000		109	71-126			
4-Isopropyltoluene	0.0564	0.0050	mg/kg wet	0.05000		113	68-129			
Acetone	0.0951	0.050	mg/kg wet	0.1000		95	29-198			
Benzene	0.0539	0.0030	mg/kg wet	0.05000		108	74-127			
Bromobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	73-125			
Bromochloromethane	0.0510	0.0050	mg/kg wet	0.05000		102	72-134			
Bromodichloromethane	0.0488	0.0050	mg/kg wet	0.05000		98	75-122			
Bromoform	0.0488	0.0050	mg/kg wet	0.05000		97	66-135			
Bromomethane	0.0540	0.010	mg/kg wet	0.05000		108	20-180			
Carbon Tetrachloride	0.0544	0.0050	mg/kg wet	0.05000		109	64-143			
Chlorobenzene	0.0529	0.0050	mg/kg wet	0.05000		106	74-118			
Chloroethane	0.0496	0.010	mg/kg wet	0.05000		99	33-149			
Chloroform	0.0471	0.0050	mg/kg wet	0.05000		94	73-127			
Chloromethane	0.0422	0.0050	mg/kg wet	0.05000		84	45-143			
cis-1,2-Dichloroethylene	0.0529	0.0050	mg/kg wet	0.05000		106	76-134			
cis-1,3-Dichloropropylene	0.0530	0.0050	mg/kg wet	0.05000		106	71-125			
Dibromochloromethane	0.0493	0.0050	mg/kg wet	0.05000		99	73-122			
Dichlorodifluoromethane	0.0324	0.0050	mg/kg wet	0.05000		65	26-146			
Ethanol	1.27	0.25	mg/kg wet	1.250		101	70-130			
Ethylbenzene	0.0545	0.0050	mg/kg wet	0.05000		109	74-128			
Isopropyl Ether	0.0457	0.0050	mg/kg wet	0.05000		91	59-159			
Isopropylbenzene (Cumene)	0.0572	0.0050	mg/kg wet	0.05000		114	68-126			
m,p-Xylenes	0.113	0.010	mg/kg wet	0.1000		113	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0572	0.050	mg/kg wet	0.05000		114	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0510	0.10	mg/kg wet	0.05000		102	63-149			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS (P5B0514-BS1)				Prepared & Analyzed: 02/27/15						
Methyl Isobutyl Ketone	0.0532	0.050	mg/kg wet	0.05000		106	57-162			
Methylene Chloride	0.0483	0.0050	mg/kg wet	0.05000		97	74-129			
Methyl-tert-Butyl Ether	0.0521	0.010	mg/kg wet	0.05000		104	70-130			
Naphthalene	0.0555	0.010	mg/kg wet	0.05000		111	57-157			
n-Butylbenzene	0.0583	0.0050	mg/kg wet	0.05000		117	65-135			
n-Propylbenzene	0.0564	0.0050	mg/kg wet	0.05000		113	67-130			
o-Xylene	0.0548	0.0050	mg/kg wet	0.05000		110	74-126			
sec-Butylbenzene	0.0572	0.0050	mg/kg wet	0.05000		114	66-131			
Styrene	0.0581	0.0050	mg/kg wet	0.05000		116	77-121			
tert-Amyl Alcohol	0.0568	0.40	mg/kg wet	0.05000		114	70-130			J
tert-Amyl Methyl Ether	0.108	0.10	mg/kg wet	0.1000		108	70-130			
tert-Butyl Alcohol	0.109	0.20	mg/kg wet	0.1000		109	70-130			J
tert-Butyl Formate	0.119	0.40	mg/kg wet	0.1000		119	70-130			J
tert-Butylbenzene	0.0555	0.0050	mg/kg wet	0.05000		111	67-132			
tert-Butyl Ethyl Ether	0.109	0.10	mg/kg wet	0.1000		109	70-130			
Tetrachloroethylene	0.0532	0.0050	mg/kg wet	0.05000		106	68-130			
Toluene	0.0528	0.0050	mg/kg wet	0.05000		106	71-129			
trans-1,2-Dichloroethylene	0.0524	0.0050	mg/kg wet	0.05000		105	73-132			
trans-1,3-Dichloropropylene	0.0541	0.0050	mg/kg wet	0.05000		108	68-123			
Trichloroethylene	0.0516	0.0050	mg/kg wet	0.05000		103	75-133			
Trichlorofluoromethane	0.0575	0.0050	mg/kg wet	0.05000		115	44-146			
Vinyl acetate	0.0520	0.025	mg/kg wet	0.05000		104	85-161			
Vinyl chloride	0.0447	0.0050	mg/kg wet	0.05000		89	48-147			
Xylenes, total	0.168	0.015	mg/kg wet	0.1500		112	74-126			
Surrogate: 4-Bromofluorobenzene	*0.0494*		*mg/kg wet*	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0487*		*mg/kg wet*	*0.05000*		*97*	*84-123*			
Surrogate: Toluene-d8	*0.0493*		*mg/kg wet*	*0.05000*		*99*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS Dup (P5B0514-BSD1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	0.0490	0.0050	mg/kg wet	0.05000		98	72-115	9	20	
1,1,1-Trichloroethane	0.0466	0.0050	mg/kg wet	0.05000		93	67-131	10	20	
1,1,2,2-Tetrachloroethane	0.0475	0.0050	mg/kg wet	0.05000		95	56-126	11	20	
1,1,2-Trichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-133	9	20	
1,1-Dichloroethane	0.0458	0.0050	mg/kg wet	0.05000		92	74-127	10	20	
1,1-Dichloroethylene	0.0465	0.0050	mg/kg wet	0.05000		93	67-149	11	20	
1,1-Dichloropropylene	0.0488	0.0050	mg/kg wet	0.05000		98	71-130	12	20	
1,2,3-Trichlorobenzene	0.0492	0.0050	mg/kg wet	0.05000		98	68-130	11	20	
1,2,3-Trichloropropane	0.0465	0.0050	mg/kg wet	0.05000		93	60-137	13	20	
1,2,4-Trichlorobenzene	0.0498	0.0050	mg/kg wet	0.05000		100	66-125	10	20	
1,2,4-Trimethylbenzene	0.0508	0.0050	mg/kg wet	0.05000		102	69-129	10	20	
1,2-Dibromoethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-132	9	20	
1,2-Dichlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	72-123	10	20	
1,2-Dichloroethane	0.0449	0.0050	mg/kg wet	0.05000		90	68-128	9	20	
1,2-Dichloropropane	0.0469	0.0050	mg/kg wet	0.05000		94	73-130	9	20	
1,3,5-Trimethylbenzene	0.0509	0.0050	mg/kg wet	0.05000		102	69-128	10	20	
1,3-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	71-120	9	20	
1,3-Dichloropropane	0.0470	0.0050	mg/kg wet	0.05000		94	75-124	9	20	
1,4-Dichlorobenzene	0.0483	0.0050	mg/kg wet	0.05000		97	71-123	10	20	
2,2-Dichloropropane	0.0471	0.0050	mg/kg wet	0.05000		94	50-142	13	20	
2-Chlorotoluene	0.0488	0.0050	mg/kg wet	0.05000		98	67-124	11	20	
4-Chlorotoluene	0.0490	0.0050	mg/kg wet	0.05000		98	71-126	10	20	
4-Isopropyltoluene	0.0502	0.0050	mg/kg wet	0.05000		100	68-129	12	20	
Acetone	0.0845	0.050	mg/kg wet	0.1000		84	29-198	12	20	
Benzene	0.0489	0.0030	mg/kg wet	0.05000		98	74-127	10	20	
Bromobenzene	0.0481	0.0050	mg/kg wet	0.05000		96	73-125	10	20	
Bromochloromethane	0.0467	0.0050	mg/kg wet	0.05000		93	72-134	9	20	
Bromodichloromethane	0.0445	0.0050	mg/kg wet	0.05000		89	75-122	9	20	
Bromoform	0.0440	0.0050	mg/kg wet	0.05000		88	66-135	10	20	
Bromomethane	0.0448	0.010	mg/kg wet	0.05000		90	20-180	19	20	
Carbon Tetrachloride	0.0490	0.0050	mg/kg wet	0.05000		98	64-143	10	20	
Chlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	74-118	10	20	
Chloroethane	0.0419	0.010	mg/kg wet	0.05000		84	33-149	17	20	
Chloroform	0.0430	0.0050	mg/kg wet	0.05000		86	73-127	9	20	
Chloromethane	0.0378	0.0050	mg/kg wet	0.05000		76	45-143	11	20	
cis-1,2-Dichloroethylene	0.0485	0.0050	mg/kg wet	0.05000		97	76-134	9	20	
cis-1,3-Dichloropropylene	0.0486	0.0050	mg/kg wet	0.05000		97	71-125	8	20	
Dibromochloromethane	0.0446	0.0050	mg/kg wet	0.05000		89	73-122	10	20	
Dichlorodifluoromethane	0.0288	0.0050	mg/kg wet	0.05000		58	26-146	12	20	
Ethanol	1.07	0.25	mg/kg wet	1.250		85	70-130	17	20	
Ethylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	74-128	11	20	
Isopropyl Ether	0.0422	0.0050	mg/kg wet	0.05000		84	59-159	8	20	
Isopropylbenzene (Cumene)	0.0512	0.0050	mg/kg wet	0.05000		102	68-126	11	20	
m,p-Xylenes	0.101	0.010	mg/kg wet	0.1000		101	75-124	10	20	
Methyl Butyl Ketone (2-Hexanone)	0.0509	0.050	mg/kg wet	0.05000		102	61-157	12	20	
Methyl Ethyl Ketone (2-Butanone)	0.0455	0.10	mg/kg wet	0.05000		91	63-149	11	20	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS Dup (P5B0514-BSD1)			Prepared & Analyzed: 02/27/15							
Methyl Isobutyl Ketone	0.0468	0.050	mg/kg wet	0.05000		94	57-162	13	20	J
Methylene Chloride	0.0437	0.0050	mg/kg wet	0.05000		87	74-129	10	20	
Methyl-tert-Butyl Ether	0.0480	0.010	mg/kg wet	0.05000		96	70-130	8	20	
Naphthalene	0.0496	0.010	mg/kg wet	0.05000		99	57-157	11	20	
n-Butylbenzene	0.0519	0.0050	mg/kg wet	0.05000		104	65-135	12	20	
n-Propylbenzene	0.0504	0.0050	mg/kg wet	0.05000		101	67-130	11	20	
o-Xylene	0.0497	0.0050	mg/kg wet	0.05000		99	74-126	10	20	
sec-Butylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	66-131	12	20	
Styrene	0.0528	0.0050	mg/kg wet	0.05000		106	77-121	10	20	
tert-Amyl Alcohol	0.0508	0.40	mg/kg wet	0.05000		102	70-130	11	20	J
tert-Amyl Methyl Ether	0.0997	0.10	mg/kg wet	0.1000		100	70-130	8	20	J
tert-Butyl Alcohol	0.101	0.20	mg/kg wet	0.1000		101	70-130	8	20	J
tert-Butyl Formate	0.109	0.40	mg/kg wet	0.1000		109	70-130	8	20	J
tert-Butylbenzene	0.0498	0.0050	mg/kg wet	0.05000		100	67-132	11	20	
tert-Butyl Ethyl Ether	0.101	0.10	mg/kg wet	0.1000		101	70-130	8	20	
Tetrachloroethylene	0.0479	0.0050	mg/kg wet	0.05000		96	68-130	10	20	
Toluene	0.0483	0.0050	mg/kg wet	0.05000		97	71-129	9	20	
trans-1,2-Dichloroethylene	0.0478	0.0050	mg/kg wet	0.05000		96	73-132	9	20	
trans-1,3-Dichloropropylene	0.0496	0.0050	mg/kg wet	0.05000		99	68-123	9	20	
Trichloroethylene	0.0466	0.0050	mg/kg wet	0.05000		93	75-133	10	20	
Trichlorofluoromethane	0.0510	0.0050	mg/kg wet	0.05000		102	44-146	12	20	
Vinyl acetate	0.0479	0.025	mg/kg wet	0.05000		96	85-161	8	20	
Vinyl chloride	0.0398	0.0050	mg/kg wet	0.05000		80	48-147	12	20	
Xylenes, total	0.151	0.015	mg/kg wet	0.1500		101	74-126	10	20	
Surrogate: 4-Bromofluorobenzene	*0.0457*		*mg/kg wet*	*0.05000*		*91*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0456*		*mg/kg wet*	*0.05000*		*91*	*84-123*			
Surrogate: Toluene-d8	*0.0462*		*mg/kg wet*	*0.05000*		*92*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0017 - 5035										
Blank (P5C0017-BLK1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	BRL	0.25	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.25	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.25	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.25	mg/kg wet							
1,1-Dichloroethane	BRL	0.25	mg/kg wet							
1,1-Dichloroethylene	BRL	0.25	mg/kg wet							
1,1-Dichloropropylene	BRL	0.25	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.50	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.25	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.50	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.25	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.25	mg/kg wet							
1,2-Dibromoethane	BRL	0.25	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.25	mg/kg wet							
1,2-Dichloroethane	BRL	0.25	mg/kg wet							
1,2-Dichloropropane	BRL	0.25	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.25	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.25	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.25	mg/kg wet							
1,3-Dichloropropane	BRL	0.25	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.25	mg/kg wet							
2,2-Dichloropropane	BRL	0.25	mg/kg wet							
2-Chlorotoluene	BRL	0.25	mg/kg wet							
4-Chlorotoluene	BRL	0.25	mg/kg wet							
4-Isopropyltoluene	BRL	0.25	mg/kg wet							
Acetone	BRL	1.0	mg/kg wet							
Benzene	BRL	0.25	mg/kg wet							
Bromobenzene	BRL	0.25	mg/kg wet							
Bromochloromethane	BRL	0.25	mg/kg wet							
Bromodichloromethane	BRL	0.25	mg/kg wet							
Bromoform	BRL	0.25	mg/kg wet							
Bromomethane	BRL	0.50	mg/kg wet							
Carbon Tetrachloride	BRL	0.25	mg/kg wet							
Chlorobenzene	BRL	0.25	mg/kg wet							
Chloroethane	BRL	0.50	mg/kg wet							
Chloroform	BRL	0.25	mg/kg wet							
Chloromethane	BRL	0.50	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.25	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.25	mg/kg wet							
Dibromochloromethane	BRL	0.25	mg/kg wet							
Dichlorodifluoromethane	BRL	0.50	mg/kg wet							
Ethanol	BRL	12	mg/kg wet							
Ethylbenzene	BRL	0.25	mg/kg wet							
Ethylbenzene	BRL	0.25	mg/kg wet							
Isopropyl Ether	BRL	0.25	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.25	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0017 - 5035										
Blank (P5C0017-BLK1)			Prepared & Analyzed: 03/02/15							
m,p-Xylenes	BRL	0.50	mg/kg wet							
m,p-Xylenes	BRL	0.50	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	1.0	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	1.0	mg/kg wet							
Methyl Isobutyl Ketone	BRL	1.0	mg/kg wet							
Methylene Chloride	BRL	0.25	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.25	mg/kg wet							
Naphthalene	BRL	0.50	mg/kg wet							
Naphthalene	BRL	0.50	mg/kg wet							
n-Butylbenzene	BRL	0.25	mg/kg wet							
n-Propylbenzene	BRL	0.25	mg/kg wet							
n-Propylbenzene	BRL	0.25	mg/kg wet							
o-Xylene	BRL	0.25	mg/kg wet							
o-Xylene	BRL	0.25	mg/kg wet							
sec-Butylbenzene	BRL	0.25	mg/kg wet							
Styrene	BRL	0.25	mg/kg wet							
tert-Amyl Alcohol	BRL	20	mg/kg wet							
tert-Amyl Methyl Ether	BRL	5.0	mg/kg wet							
tert-Butyl Alcohol	BRL	10	mg/kg wet							
tert-Butyl Formate	BRL	20	mg/kg wet							
tert-Butylbenzene	BRL	0.25	mg/kg wet							
tert-Butyl Ethyl Ether	BRL	5.0	mg/kg wet							
Tetrachloroethylene	BRL	0.25	mg/kg wet							
Toluene	BRL	0.25	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.25	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.25	mg/kg wet							
Trichloroethylene	BRL	0.25	mg/kg wet							
Trichlorofluoromethane	BRL	0.50	mg/kg wet							
Vinyl acetate	BRL	1.0	mg/kg wet							
Vinyl chloride	BRL	0.50	mg/kg wet							
Xylenes, total	BRL	0.75	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*1.08*		*mg/kg wet*	*1.000*		*108*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.08*		*mg/kg wet*	*1.000*		*108*	*70-130*			
Surrogate: Dibromofluoromethane	*1.04*		*mg/kg wet*	*1.000*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*1.04*		*mg/kg wet*	*1.000*		*104*	*70-130*			
Surrogate: Toluene-d8	*0.946*		*mg/kg wet*	*1.000*		*95*	*70-130*			
Surrogate: Toluene-d8	*0.946*		*mg/kg wet*	*1.000*		*95*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0017 - 5035										
LCS (P5C0017-BS1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	0.903	0.25	mg/kg wet	1.000		90	72-115			
1,1,1-Trichloroethane	0.970	0.25	mg/kg wet	1.000		97	72-123			
1,1,2,2-Tetrachloroethane	0.904	0.25	mg/kg wet	1.000		90	62-127			
1,1,2-Trichloroethane	0.902	0.25	mg/kg wet	1.000		90	73-123			
1,1-Dichloroethane	0.962	0.25	mg/kg wet	1.000		96	73-119			
1,1-Dichloroethylene	0.978	0.25	mg/kg wet	1.000		98	59-157			
1,1-Dichloropropylene	1.05	0.25	mg/kg wet	1.000		105	70-129			
1,2,3-Trichlorobenzene	1.10	0.50	mg/kg wet	1.000		110	59-133			
1,2,3-Trichloropropane	0.795	0.25	mg/kg wet	1.000		80	52-137			
1,2,4-Trichlorobenzene	1.08	0.50	mg/kg wet	1.000		108	66-123			
1,2,4-Trimethylbenzene	0.943	0.25	mg/kg wet	1.000		94	69-126			
1,2,4-Trimethylbenzene	0.943	0.25	mg/kg wet	1.000		94	69-126			
1,2-Dibromoethane	0.962	0.25	mg/kg wet	1.000		96	69-127			
1,2-Dichlorobenzene	0.952	0.25	mg/kg wet	1.000		95	70-121			
1,2-Dichloroethane	0.917	0.25	mg/kg wet	1.000		92	69-125			
1,2-Dichloropropane	0.963	0.25	mg/kg wet	1.000		96	75-124			
1,3,5-Trimethylbenzene	0.920	0.25	mg/kg wet	1.000		92	69-124			
1,3,5-Trimethylbenzene	0.920	0.25	mg/kg wet	1.000		92	69-124			
1,3-Dichlorobenzene	0.950	0.25	mg/kg wet	1.000		95	70-121			
1,3-Dichloropropane	0.872	0.25	mg/kg wet	1.000		87	70-124			
1,4-Dichlorobenzene	0.972	0.25	mg/kg wet	1.000		97	71-119			
2,2-Dichloropropane	1.10	0.25	mg/kg wet	1.000		110	46-154			
2-Chlorotoluene	0.906	0.25	mg/kg wet	1.000		91	70-121			
4-Chlorotoluene	0.906	0.25	mg/kg wet	1.000		91	72-126			
4-Isopropyltoluene	0.886	0.25	mg/kg wet	1.000		89	71-126			
Acetone	1.82	1.0	mg/kg wet	2.000		91	12-196			
Benzene	1.06	0.25	mg/kg wet	1.000		106	74-123			
Bromobenzene	0.878	0.25	mg/kg wet	1.000		88	66-122			
Bromochloromethane	1.09	0.25	mg/kg wet	1.000		109	73-128			
Bromodichloromethane	0.908	0.25	mg/kg wet	1.000		91	76-123			
Bromoform	0.948	0.25	mg/kg wet	1.000		95	71-124			
Bromomethane	1.19	0.50	mg/kg wet	1.000		119	56-145			
Carbon Tetrachloride	0.994	0.25	mg/kg wet	1.000		99	67-140			
Chlorobenzene	0.952	0.25	mg/kg wet	1.000		95	74-121			
Chloroethane	1.09	0.50	mg/kg wet	1.000		109	64-142			
Chloroform	0.930	0.25	mg/kg wet	1.000		93	75-125			
Chloromethane	1.03	0.50	mg/kg wet	1.000		103	54-132			
cis-1,2-Dichloroethylene	1.00	0.25	mg/kg wet	1.000		100	68-132			
cis-1,3-Dichloropropylene	0.996	0.25	mg/kg wet	1.000		100	75-128			
Dibromochloromethane	0.828	0.25	mg/kg wet	1.000		83	71-121			
Dichlorodifluoromethane	1.06	0.50	mg/kg wet	1.000		106	39-178			
Ethanol	30.4	12	mg/kg wet	25.00		122	70-130			
Ethylbenzene	0.932	0.25	mg/kg wet	1.000		93	69-125			
Ethylbenzene	0.932	0.25	mg/kg wet	1.000		93	69-125			
Isopropyl Ether	0.806	0.25	mg/kg wet	1.000		81	77-123			
Isopropylbenzene (Cumene)	0.916	0.25	mg/kg wet	1.000		92	68-129			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0017 - 5035										
LCS (P5C0017-BS1)				Prepared & Analyzed: 03/02/15						
m,p-Xylenes	1.87	0.50	mg/kg wet	2.000		94	64-125			
m,p-Xylenes	1.87	0.50	mg/kg wet	2.000		94	64-125			
Methyl Butyl Ketone (2-Hexanone)	0.800	1.0	mg/kg wet	1.000		80	54-139			J
Methyl Ethyl Ketone (2-Butanone)	0.868	1.0	mg/kg wet	1.000		87	34-165			J
Methyl Isobutyl Ketone	0.902	1.0	mg/kg wet	1.000		90	63-130			J
Methylene Chloride	0.912	0.25	mg/kg wet	1.000		91	65-135			
Methyl-tert-Butyl Ether	0.999	0.25	mg/kg wet	1.000		100	62-123			
Naphthalene	0.857	0.50	mg/kg wet	1.000		86	58-129			
Naphthalene	0.857	0.50	mg/kg wet	1.000		86	58-129			
n-Butylbenzene	0.896	0.25	mg/kg wet	1.000		90	71-126			
n-Propylbenzene	0.887	0.25	mg/kg wet	1.000		89	68-128			
n-Propylbenzene	0.887	0.25	mg/kg wet	1.000		89	68-128			
o-Xylene	0.935	0.25	mg/kg wet	1.000		93	69-121			
o-Xylene	0.934	0.25	mg/kg wet	1.000		93	69-121			
sec-Butylbenzene	0.881	0.25	mg/kg wet	1.000		88	71-128			
Styrene	0.978	0.25	mg/kg wet	1.000		98	67-129			
tert-Amyl Alcohol	2.06	20	mg/kg wet	1.000		206	70-130			LH, J
tert-Amyl Methyl Ether	2.01	5.0	mg/kg wet	2.000		100	70-130			J
tert-Butyl Alcohol	2.00	10	mg/kg wet	2.000		100	70-130			J
tert-Butyl Formate	2.06	20	mg/kg wet	2.000		103	70-130			J
tert-Butylbenzene	0.882	0.25	mg/kg wet	1.000		88	71-126			
tert-Butyl Ethyl Ether	2.00	5.0	mg/kg wet	2.000		100	70-130			J
Tetrachloroethylene	1.04	0.25	mg/kg wet	1.000		104	71-124			
Toluene	1.09	0.25	mg/kg wet	1.000		109	74-122			
trans-1,2-Dichloroethylene	0.984	0.25	mg/kg wet	1.000		98	69-129			
trans-1,3-Dichloropropylene	1.01	0.25	mg/kg wet	1.000		101	74-127			
Trichloroethylene	1.01	0.25	mg/kg wet	1.000		101	68-133			
Trichlorofluoromethane	1.07	0.50	mg/kg wet	1.000		107	60-138			
Vinyl acetate	1.01	1.0	mg/kg wet	1.000		101	14-179			
Vinyl chloride	1.00	0.50	mg/kg wet	1.000		100	69-135			
Xylenes, total	2.81	0.75	mg/kg wet	3.000		94	74-126			
Surrogate: 4-Bromofluorobenzene	*1.11*		*mg/kg wet*	*1.000*		*111*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.11*		*mg/kg wet*	*1.000*		*111*	*70-130*			
Surrogate: Dibromofluoromethane	*1.13*		*mg/kg wet*	*1.000*		*113*	*70-130*			
Surrogate: Dibromofluoromethane	*1.13*		*mg/kg wet*	*1.000*		*113*	*70-130*			
Surrogate: Toluene-d8	*1.05*		*mg/kg wet*	*1.000*		*105*	*70-130*			
Surrogate: Toluene-d8	*1.05*		*mg/kg wet*	*1.000*		*105*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0017 - 5035										
LCS Dup (P5C0017-BSD1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	0.816	0.25	mg/kg wet	1.000		82	72-115	10	20	
1,1,1-Trichloroethane	0.876	0.25	mg/kg wet	1.000		88	72-123	10	20	
1,1,2,2-Tetrachloroethane	0.841	0.25	mg/kg wet	1.000		84	62-127	7	20	
1,1,2-Trichloroethane	0.820	0.25	mg/kg wet	1.000		82	73-123	10	20	
1,1-Dichloroethane	0.888	0.25	mg/kg wet	1.000		89	73-119	8	20	
1,1-Dichloroethylene	0.900	0.25	mg/kg wet	1.000		90	59-157	8	20	
1,1-Dichloropropylene	0.941	0.25	mg/kg wet	1.000		94	70-129	11	20	
1,2,3-Trichlorobenzene	0.958	0.50	mg/kg wet	1.000		96	59-133	14	20	
1,2,3-Trichloropropane	0.654	0.25	mg/kg wet	1.000		65	52-137	19	20	
1,2,4-Trichlorobenzene	0.988	0.50	mg/kg wet	1.000		99	66-123	9	20	
1,2,4-Trimethylbenzene	0.878	0.25	mg/kg wet	1.000		88	69-126	7	20	
1,2,4-Trimethylbenzene	0.878	0.25	mg/kg wet	1.000		88	69-126	7	20	
1,2-Dibromoethane	0.852	0.25	mg/kg wet	1.000		85	69-127	12	20	
1,2-Dichlorobenzene	0.888	0.25	mg/kg wet	1.000		89	70-121	7	20	
1,2-Dichloroethane	0.830	0.25	mg/kg wet	1.000		83	69-125	10	20	
1,2-Dichloropropane	0.906	0.25	mg/kg wet	1.000		91	75-124	6	20	
1,3,5-Trimethylbenzene	0.856	0.25	mg/kg wet	1.000		86	69-124	7	20	
1,3,5-Trimethylbenzene	0.856	0.25	mg/kg wet	1.000		86	69-124	7	20	
1,3-Dichlorobenzene	0.875	0.25	mg/kg wet	1.000		88	70-121	8	20	
1,3-Dichloropropane	0.800	0.25	mg/kg wet	1.000		80	70-124	9	20	
1,4-Dichlorobenzene	0.880	0.25	mg/kg wet	1.000		88	71-119	10	20	
2,2-Dichloropropane	0.980	0.25	mg/kg wet	1.000		98	46-154	11	20	
2-Chlorotoluene	0.817	0.25	mg/kg wet	1.000		82	70-121	10	20	
4-Chlorotoluene	0.832	0.25	mg/kg wet	1.000		83	72-126	8	20	
4-Isopropyltoluene	0.817	0.25	mg/kg wet	1.000		82	71-126	8	20	
Acetone	1.74	1.0	mg/kg wet	2.000		87	12-196	4	20	
Benzene	0.974	0.25	mg/kg wet	1.000		97	74-123	8	20	
Bromobenzene	0.819	0.25	mg/kg wet	1.000		82	66-122	7	20	
Bromochloromethane	0.966	0.25	mg/kg wet	1.000		97	73-128	12	20	
Bromodichloromethane	0.820	0.25	mg/kg wet	1.000		82	76-123	10	20	
Bromoform	0.850	0.25	mg/kg wet	1.000		85	71-124	11	20	
Bromomethane	1.12	0.50	mg/kg wet	1.000		112	56-145	5	20	
Carbon Tetrachloride	0.888	0.25	mg/kg wet	1.000		89	67-140	11	20	
Chlorobenzene	0.862	0.25	mg/kg wet	1.000		86	74-121	10	20	
Chloroethane	0.983	0.50	mg/kg wet	1.000		98	64-142	10	20	
Chloroform	0.847	0.25	mg/kg wet	1.000		85	75-125	9	20	
Chloromethane	0.946	0.50	mg/kg wet	1.000		95	54-132	8	20	
cis-1,2-Dichloroethylene	0.934	0.25	mg/kg wet	1.000		93	68-132	7	20	
cis-1,3-Dichloropropylene	0.934	0.25	mg/kg wet	1.000		93	75-128	6	20	
Dibromochloromethane	0.758	0.25	mg/kg wet	1.000		76	71-121	9	20	
Dichlorodifluoromethane	0.946	0.50	mg/kg wet	1.000		95	39-178	12	20	
Ethanol	29.0	12	mg/kg wet	25.00		116	70-130	5	20	
Ethylbenzene	0.842	0.25	mg/kg wet	1.000		84	69-125	10	20	
Ethylbenzene	0.842	0.25	mg/kg wet	1.000		84	69-125	10	20	
Isopropyl Ether	0.729	0.25	mg/kg wet	1.000		73	77-123	10	20	L2
Isopropylbenzene (Cumene)	0.848	0.25	mg/kg wet	1.000		85	68-129	8	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0017 - 5035										
LCS Dup (P5C0017-BSD1)				Prepared & Analyzed: 03/02/15						
m,p-Xylenes	1.69	0.50	mg/kg wet	2.000		85	64-125	10	20	
m,p-Xylenes	1.69	0.50	mg/kg wet	2.000		85	64-125	10	20	
Methyl Butyl Ketone (2-Hexanone)	0.716	1.0	mg/kg wet	1.000		72	54-139	11	20	J
Methyl Ethyl Ketone (2-Butanone)	0.740	1.0	mg/kg wet	1.000		74	34-165	16	20	J
Methyl Isobutyl Ketone	0.752	1.0	mg/kg wet	1.000		75	63-130	18	20	J
Methylene Chloride	0.831	0.25	mg/kg wet	1.000		83	65-135	9	20	
Methyl-tert-Butyl Ether	0.887	0.25	mg/kg wet	1.000		89	62-123	12	20	
Naphthalene	0.774	0.50	mg/kg wet	1.000		77	58-129	10	20	
Naphthalene	0.774	0.50	mg/kg wet	1.000		77	58-129	10	20	
n-Butylbenzene	0.819	0.25	mg/kg wet	1.000		82	71-126	9	20	
n-Propylbenzene	0.818	0.25	mg/kg wet	1.000		82	68-128	8	20	
n-Propylbenzene	0.819	0.25	mg/kg wet	1.000		82	68-128	8	20	
o-Xylene	0.842	0.25	mg/kg wet	1.000		84	69-121	10	20	
o-Xylene	0.843	0.25	mg/kg wet	1.000		84	69-121	10	20	
sec-Butylbenzene	0.817	0.25	mg/kg wet	1.000		82	71-128	8	20	
Styrene	0.884	0.25	mg/kg wet	1.000		88	67-129	10	20	
tert-Amyl Alcohol	1.85	20	mg/kg wet	1.000		185	70-130	11	20	LH, J
tert-Amyl Methyl Ether	1.81	5.0	mg/kg wet	2.000		90	70-130	10	20	J
tert-Butyl Alcohol	1.82	10	mg/kg wet	2.000		91	70-130	9	20	J
tert-Butyl Formate	1.86	20	mg/kg wet	2.000		93	70-130	10	20	J
tert-Butylbenzene	0.829	0.25	mg/kg wet	1.000		83	71-126	6	20	
tert-Butyl Ethyl Ether	1.82	5.0	mg/kg wet	2.000		91	70-130	9	20	J
Tetrachloroethylene	0.952	0.25	mg/kg wet	1.000		95	71-124	9	20	
Toluene	0.984	0.25	mg/kg wet	1.000		98	74-122	10	20	
trans-1,2-Dichloroethylene	0.916	0.25	mg/kg wet	1.000		92	69-129	7	20	
trans-1,3-Dichloropropylene	0.895	0.25	mg/kg wet	1.000		90	74-127	12	20	
Trichloroethylene	0.914	0.25	mg/kg wet	1.000		91	68-133	10	20	
Trichlorofluoromethane	0.956	0.50	mg/kg wet	1.000		96	60-138	11	20	
Vinyl acetate	0.891	1.0	mg/kg wet	1.000		89	14-179	13	20	J
Vinyl chloride	0.906	0.50	mg/kg wet	1.000		91	69-135	10	20	
Xylenes, total	2.54	0.75	mg/kg wet	3.000		85	74-126	10	200	
Surrogate: 4-Bromofluorobenzene	*1.06*		*mg/kg wet*	*1.000*		*106*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*1.06*		*mg/kg wet*	*1.000*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*1.06*		*mg/kg wet*	*1.000*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*1.06*		*mg/kg wet*	*1.000*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.980*		*mg/kg wet*	*1.000*		*98*	*70-130*			
Surrogate: Toluene-d8	*0.980*		*mg/kg wet*	*1.000*		*98*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
Blank (P5C0033-BLK1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
Blank (P5C0033-BLK1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.80*		*mg/kg wet*	*3.332*		*84*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.51*		*mg/kg wet*	*1.666*		*91*	*44-115*			
Surrogate: 2-Fluorophenol	*3.02*		*mg/kg wet*	*3.332*		*91*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.33*		*mg/kg wet*	*1.666*		*80*	*37-122*			
Surrogate: Phenol-d5	*2.78*		*mg/kg wet*	*3.332*		*83*	*34-121*			
Surrogate: Terphenyl-d14	*1.69*		*mg/kg wet*	*1.666*		*101*	*54-127*			
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	1.45	0.33	mg/kg wet	1.664		87	34-118			
1,2-Dichlorobenzene	1.34	0.33	mg/kg wet	1.664		81	33-117			
1,3-Dichlorobenzene	1.32	0.33	mg/kg wet	1.664		79	30-115			
1,4-Dichlorobenzene	1.25	0.33	mg/kg wet	1.664		75	31-115			
1-Methylnaphthalene	1.45	0.33	mg/kg wet	1.664		87	40-119			
2,4,6-Trichlorophenol	1.83	0.33	mg/kg wet	1.664		110	39-126			
2,4-Dichlorophenol	1.70	0.33	mg/kg wet	1.664		102	40-122			
2,4-Dimethylphenol	1.70	0.33	mg/kg wet	1.664		102	30-127			
2,4-Dinitrophenol	1.09	0.33	mg/kg wet	1.664		66	27-129			
2,4-Dinitrotoluene	1.78	0.33	mg/kg wet	1.664		107	48-126			
2,6-Dinitrotoluene	1.79	0.33	mg/kg wet	1.664		108	46-124			
2-Chloronaphthalene	2.15	0.33	mg/kg wet	1.664		129	41-114			LH
2-Chlorophenol	1.53	0.33	mg/kg wet	1.664		92	34-121			
2-Methylnaphthalene	1.52	0.33	mg/kg wet	1.664		92	38-122			
2-Methylphenol	1.58	0.33	mg/kg wet	1.664		95	32-122			
2-Nitrophenol	1.68	0.33	mg/kg wet	1.664		101	36-123			
3,3'-Dichlorobenzidine	1.41	0.33	mg/kg wet	1.664		84	22-121			
3/4-Methylphenol	1.59	0.33	mg/kg wet	1.664		96	34-119			
4,6-Dinitro-2-methylphenol	1.44	0.33	mg/kg wet	1.664		87	29-132			
4-Bromophenyl phenyl ether	1.53	0.33	mg/kg wet	1.664		92	46-124			
4-Chloro-3-methylphenol	1.74	0.33	mg/kg wet	1.664		105	45-122			
4-Chloroaniline	1.56	0.33	mg/kg wet	1.664		94	17-106			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
4-Chlorophenyl phenyl ether	1.53	0.33	mg/kg wet	1.664		92	45-121			
4-Nitrophenol	1.74	0.33	mg/kg wet	1.664		104	30-132			
Acenaphthene	1.57	0.33	mg/kg wet	1.664		94	40-123			
Acenaphthylene	1.60	0.33	mg/kg wet	1.664		96	32-132			
Anthracene	1.58	0.33	mg/kg wet	1.664		95	47-123			
Azobenzene	1.88	0.33	mg/kg wet	1.664		113	39-125			
Benzo(a)anthracene	1.53	0.33	mg/kg wet	1.664		92	49-126			
Benzo(a)pyrene	1.24	0.33	mg/kg wet	1.664		75	45-129			
Benzo(b)fluoranthene	1.26	0.33	mg/kg wet	1.664		76	45-132			
Benzo(g,h,i)perylene	1.27	0.33	mg/kg wet	1.664		76	43-134			
Benzo(k)fluoranthene	1.24	0.33	mg/kg wet	1.664		74	47-132			
Benzoic Acid	1.56	0.33	mg/kg wet	1.664		93	10-83			LH
Benzyl alcohol	1.39	0.33	mg/kg wet	1.664		83	29-122			
bis(2-Chloroethoxy)methane	1.52	0.33	mg/kg wet	1.664		91	36-121			
Bis(2-Chloroethyl)ether	1.34	0.33	mg/kg wet	1.664		81	31-120			
Bis(2-chloroisopropyl)ether	1.30	0.33	mg/kg wet	1.664		78	33-131			
Bis(2-Ethylhexyl)phthalate	1.57	0.33	mg/kg wet	1.664		94	51-133			
Butyl benzyl phthalate	1.55	0.33	mg/kg wet	1.664		93	48-132			
Chrysene	1.62	0.33	mg/kg wet	1.664		98	50-124			
Dibenzo(a,h)anthracene	1.26	0.33	mg/kg wet	1.664		76	45-134			
Dibenzofuran	1.53	0.33	mg/kg wet	1.664		92	44-120			
Diethyl phthalate	1.59	0.33	mg/kg wet	1.664		95	50-124			
Dimethyl phthalate	1.60	0.33	mg/kg wet	1.664		96	48-124			
Di-n-butyl phthalate	1.58	0.33	mg/kg wet	1.664		95	51-128			
Di-n-octyl phthalate	1.30	0.33	mg/kg wet	1.664		78	45-140			
Fluoranthene	1.54	0.33	mg/kg wet	1.664		92	50-127			
Fluorene	1.60	0.33	mg/kg wet	1.664		96	43-125			
Hexachlorobenzene	1.57	0.33	mg/kg wet	1.664		94	45-122			
Hexachlorobutadiene	1.45	0.33	mg/kg wet	1.664		87	32-123			
Hexachlorocyclopentadiene	1.50	0.33	mg/kg wet	1.664		90	32-117			
Hexachloroethane	1.31	0.33	mg/kg wet	1.664		79	28-117			
Indeno(1,2,3-cd)pyrene	1.31	0.33	mg/kg wet	1.664		79	45-133			
Isophorone	1.69	0.33	mg/kg wet	1.664		102	30-122			
Naphthalene	1.47	0.33	mg/kg wet	1.664		88	35-123			
Nitrobenzene	1.63	0.33	mg/kg wet	1.664		98	34-122			
N-Nitroso-di-n-propylamine	1.40	0.33	mg/kg wet	1.664		84	36-120			
N-Nitrosodiphenylamine	1.62	0.33	mg/kg wet	1.664		97	38-127			
Pentachlorophenol	1.55	0.33	mg/kg wet	1.664		93	25-133			
Phenanthrene	1.56	0.33	mg/kg wet	1.664		94	50-121			
Phenol	1.61	0.33	mg/kg wet	1.664		96	34-121			
Pyrene	1.59	0.33	mg/kg wet	1.664		95	47-127			
Surrogate: 2,4,6-Tribromophenol	*3.17*		*mg/kg wet*	*3.329*		*95*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.69*		*mg/kg wet*	*1.664*		*102*	*44-115*			
Surrogate: 2-Fluorophenol	*3.25*		*mg/kg wet*	*3.329*		*98*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.56*		*mg/kg wet*	*1.664*		*94*	*37-122*			
Surrogate: Phenol-d5	*3.10*		*mg/kg wet*	*3.329*		*93*	*34-121*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Surrogate: Terphenyl-d14	*1.77*		*mg/kg wet*	*1.664*		*106*	*54-127*			
LCS Dup (P5C0033-BSD1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	1.40	0.33	mg/kg wet	1.665		84	34-118	3	20	
1,2-Dichlorobenzene	1.37	0.33	mg/kg wet	1.665		82	33-117	2	20	
1,3-Dichlorobenzene	1.35	0.33	mg/kg wet	1.665		81	30-115	3	20	
1,4-Dichlorobenzene	1.32	0.33	mg/kg wet	1.665		79	31-115	5	20	
1-Methylnaphthalene	1.40	0.33	mg/kg wet	1.665		84	40-119	4	20	
2,4,6-Trichlorophenol	1.73	0.33	mg/kg wet	1.665		104	39-126	5	20	
2,4-Dichlorophenol	1.67	0.33	mg/kg wet	1.665		100	40-122	2	20	
2,4-Dimethylphenol	1.62	0.33	mg/kg wet	1.665		98	30-127	4	20	
2,4-Dinitrophenol	1.31	0.33	mg/kg wet	1.665		79	27-129	18	20	
2,4-Dinitrotoluene	1.76	0.33	mg/kg wet	1.665		105	48-126	2	20	
2,6-Dinitrotoluene	1.81	0.33	mg/kg wet	1.665		109	46-124	1	20	
2-Chloronaphthalene	2.17	0.33	mg/kg wet	1.665		130	41-114	1	20	LH
2-Chlorophenol	1.56	0.33	mg/kg wet	1.665		94	34-121	2	20	
2-Methylnaphthalene	1.46	0.33	mg/kg wet	1.665		88	38-122	4	20	
2-Methylphenol	1.58	0.33	mg/kg wet	1.665		95	32-122	0.07	20	
2-Nitrophenol	1.57	0.33	mg/kg wet	1.665		94	36-123	7	20	
3,3'-Dichlorobenzidine	1.37	0.33	mg/kg wet	1.665		82	22-121	3	20	
3/4-Methylphenol	1.66	0.33	mg/kg wet	1.665		100	34-119	4	20	
4,6-Dinitro-2-methylphenol	1.64	0.33	mg/kg wet	1.665		98	29-132	13	20	
4-Bromophenyl phenyl ether	1.49	0.33	mg/kg wet	1.665		89	46-124	2	20	
4-Chloro-3-methylphenol	1.67	0.33	mg/kg wet	1.665		100	45-122	4	20	
4-Chloroaniline	1.50	0.33	mg/kg wet	1.665		90	17-106	4	20	
4-Chlorophenyl phenyl ether	1.49	0.33	mg/kg wet	1.665		89	45-121	3	20	
4-Nitrophenol	1.48	0.33	mg/kg wet	1.665		89	30-132	16	20	
Acenaphthene	1.54	0.33	mg/kg wet	1.665		92	40-123	2	20	
Acenaphthylene	1.52	0.33	mg/kg wet	1.665		91	32-132	5	20	
Anthracene	1.56	0.33	mg/kg wet	1.665		94	47-123	1	20	
Azobenzene	1.81	0.33	mg/kg wet	1.665		109	39-125	3	20	
Benzo(a)anthracene	1.51	0.33	mg/kg wet	1.665		90	49-126	2	20	
Benzo(a)pyrene	1.23	0.33	mg/kg wet	1.665		74	45-129	1	20	
Benzo(b)fluoranthene	1.26	0.33	mg/kg wet	1.665		76	45-132	0.2	20	
Benzo(g,h,i)perylene	1.27	0.33	mg/kg wet	1.665		76	43-134	0.3	20	
Benzo(k)fluoranthene	1.24	0.33	mg/kg wet	1.665		74	47-132	0.07	20	
Benzoic Acid	1.51	0.33	mg/kg wet	1.665		91	10-83	3	20	LH
Benzyl alcohol	1.39	0.33	mg/kg wet	1.665		84	29-122	0.5	20	
bis(2-Chloroethoxy)methane	1.44	0.33	mg/kg wet	1.665		86	36-121	5	20	
Bis(2-Chloroethyl)ether	1.41	0.33	mg/kg wet	1.665		85	31-120	5	20	
Bis(2-chloroisopropyl)ether	1.32	0.33	mg/kg wet	1.665		79	33-131	1	20	
Bis(2-Ethylhexyl)phthalate	1.56	0.33	mg/kg wet	1.665		94	51-133	0.6	20	
Butyl benzyl phthalate	1.56	0.33	mg/kg wet	1.665		94	48-132	0.6	20	
Chrysene	1.57	0.33	mg/kg wet	1.665		95	50-124	3	20	
Dibenzo(a,h)anthracene	1.23	0.33	mg/kg wet	1.665		74	45-134	3	20	
Dibenzofuran	1.47	0.33	mg/kg wet	1.665		88	44-120	4	20	
Diethyl phthalate	1.55	0.33	mg/kg wet	1.665		93	50-124	3	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS Dup (P5C0033-BSD1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Dimethyl phthalate	1.54	0.33	mg/kg wet	1.665		92	48-124	4	20	
Di-n-butyl phthalate	1.54	0.33	mg/kg wet	1.665		93	51-128	2	20	
Di-n-octyl phthalate	1.26	0.33	mg/kg wet	1.665		76	45-140	3	20	
Fluoranthene	1.51	0.33	mg/kg wet	1.665		90	50-127	2	20	
Fluorene	1.54	0.33	mg/kg wet	1.665		93	43-125	4	20	
Hexachlorobenzene	1.61	0.33	mg/kg wet	1.665		97	45-122	2	20	
Hexachlorobutadiene	1.35	0.33	mg/kg wet	1.665		81	32-123	7	20	
Hexachlorocyclopentadiene	1.39	0.33	mg/kg wet	1.665		84	32-117	8	20	
Hexachloroethane	1.34	0.33	mg/kg wet	1.665		80	28-117	2	20	
Indeno(1,2,3-cd)pyrene	1.29	0.33	mg/kg wet	1.665		77	45-133	2	20	
Isophorone	1.60	0.33	mg/kg wet	1.665		96	30-122	6	20	
Naphthalene	1.42	0.33	mg/kg wet	1.665		85	35-123	4	20	
Nitrobenzene	1.50	0.33	mg/kg wet	1.665		90	34-122	8	20	
N-Nitroso-di-n-propylamine	1.46	0.33	mg/kg wet	1.665		88	36-120	4	20	
N-Nitrosodiphenylamine	1.58	0.33	mg/kg wet	1.665		95	38-127	2	20	
Pentachlorophenol	1.59	0.33	mg/kg wet	1.665		96	25-133	3	20	
Phenanthrene	1.53	0.33	mg/kg wet	1.665		92	50-121	2	20	
Phenol	1.65	0.33	mg/kg wet	1.665		99	34-121	3	20	
Pyrene	1.56	0.33	mg/kg wet	1.665		94	47-127	2	20	
Surrogate: 2,4,6-Tribromophenol	*3.30*		*mg/kg wet*	*3.330*		*99*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.69*		*mg/kg wet*	*1.665*		*101*	*44-115*			
Surrogate: 2-Fluorophenol	*3.41*		*mg/kg wet*	*3.330*		*102*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.55*		*mg/kg wet*	*1.665*		*93*	*37-122*			
Surrogate: Phenol-d5	*3.24*		*mg/kg wet*	*3.330*		*97*	*34-121*			
Surrogate: Terphenyl-d14	*1.76*		*mg/kg wet*	*1.665*		*106*	*54-127*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0018 - MADEP VPH (S)										
Blank (P5C0018-BLK1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	*9.50*		*mg/kg wet*	*10.67*		*89*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*9.85*		*mg/kg wet*	*10.67*		*92*	*70-130*			
LCS (P5C0018-BS1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	33.5	5.0	mg/kg wet	32.00		105	70-130			
C9-C10 Aromatics	10.6	5.0	mg/kg wet	10.67		100	70-130			
C9-C12 Aliphatic	36.4	5.0	mg/kg wet	32.00		114	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*10.9*		*mg/kg wet*	*10.67*		*102*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*11.3*		*mg/kg wet*	*10.67*		*106*	*70-130*			
LCS Dup (P5C0018-BSD1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	32.1	5.0	mg/kg wet	32.00		100	70-130	4	50	
C9-C10 Aromatics	10.3	5.0	mg/kg wet	10.67		97	70-130	3	50	
C9-C12 Aliphatic	35.7	5.0	mg/kg wet	32.00		112	70-130	2	50	
Surrogate: 2,5-Dibromotoluene (PID)	*10.4*		*mg/kg wet*	*10.67*		*98*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*10.7*		*mg/kg wet*	*10.67*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0069 - 5035										
Blank (P5C0069-BLK1)				Prepared & Analyzed: 03/04/15						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*5.15*		*mg/kg wet*	*5.000*		*103*	*50-137*			
LCS (P5C0069-BS1)				Prepared & Analyzed: 03/04/15						
Gasoline Range Organics	55.6	5.0	mg/kg wet	50.00		111	41-138			
Surrogate: a,a,a-Trifluorotoluene	*5.05*		*mg/kg wet*	*5.000*		*101*	*50-137*			
LCS Dup (P5C0069-BSD1)				Prepared & Analyzed: 03/04/15						
Gasoline Range Organics	59.6	5.0	mg/kg wet	50.00		119	41-138	7	20	
Surrogate: a,a,a-Trifluorotoluene	*4.85*		*mg/kg wet*	*5.000*		*97*	*50-137*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0037 - 3546										
Blank (P5C0037-BLK1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	BRL	10	mg/kg wet							
C19-C36 Aliphatics	2.65	10	mg/kg wet							J
C11-C22 Aromatics	BRL	10	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.59*		*mg/kg wet*	*2.000*		*80*	*40-140*			
Surrogate: o-Terphenyl	*1.51*		*mg/kg wet*	*2.000*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.57*		*mg/kg wet*	*4.000*		*89*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.30*		*mg/kg wet*	*4.000*		*83*	*40-140*			
LCS (P5C0037-BS1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	34.3	10	mg/kg wet	60.00		57	40-140			
C19-C36 Aliphatics	66.1	10	mg/kg wet	80.00		83	40-140			
C11-C22 Aromatics	148	10	mg/kg wet	170.0		87	40-140			
Surrogate: 1-Chlorooctadecane	*1.81*		*mg/kg wet*	*2.000*		*91*	*40-140*			
Surrogate: o-Terphenyl	*1.86*		*mg/kg wet*	*2.000*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.76*		*mg/kg wet*	*4.000*		*94*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.81*		*mg/kg wet*	*4.000*		*95*	*40-140*			
LCS Dup (P5C0037-BSD1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	33.0	10	mg/kg wet	60.00		55	40-140	4	50	
C19-C36 Aliphatics	63.2	10	mg/kg wet	80.00		79	40-140	5	50	
C11-C22 Aromatics	135	10	mg/kg wet	170.0		79	40-140	9	50	
Surrogate: 1-Chlorooctadecane	*1.56*		*mg/kg wet*	*2.000*		*78*	*40-140*			
Surrogate: o-Terphenyl	*1.61*		*mg/kg wet*	*2.000*		*80*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*4.00*		*mg/kg wet*	*4.000*		*100*	*40-140*			
Surrogate: 2-Bromonaphthalene	*4.09*		*mg/kg wet*	*4.000*		*102*	*40-140*			
Matrix Spike (P5C0037-MS1)	**Source: 5020449-03**			Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	43.0	11	mg/kg dry	68.36	BRL	63	40-140			
C19-C36 Aliphatics	81.4	11	mg/kg dry	91.15	BRL	89	40-140			
C11-C22 Aromatics	184	11	mg/kg dry	193.7	BRL	95	40-140			
Surrogate: 1-Chlorooctadecane	*2.05*		*mg/kg dry*	*2.279*		*90*	*40-140*			
Surrogate: o-Terphenyl	*2.20*		*mg/kg dry*	*2.279*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*4.78*		*mg/kg dry*	*4.557*		*105*	*40-140*			
Surrogate: 2-Bromonaphthalene	*4.63*		*mg/kg dry*	*4.557*		*102*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0037 - 3546										
Matrix Spike Dup (P5C0037-MSD1)	**Source: 5020449-03**			Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	46.5	11	mg/kg dry	68.29	BRL	68	40-140	8	50	
C19-C36 Aliphatics	86.8	11	mg/kg dry	91.06	BRL	95	40-140	6	50	
C11-C22 Aromatics	171	11	mg/kg dry	193.5	BRL	89	40-140	7	50	
Surrogate: 1-Chlorooctadecane	*2.12*		*mg/kg dry*	*2.276*		*93*	*40-140*			
Surrogate: o-Terphenyl	*2.14*		*mg/kg dry*	*2.276*		*94*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*4.38*		*mg/kg dry*	*4.553*		*96*	*40-140*			
Surrogate: 2-Bromonaphthalene	*4.17*		*mg/kg dry*	*4.553*		*92*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0517 - 3546										
Blank (P5B0517-BLK1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*0.774*		*mg/kg wet*	*1.333*		*58*	*49-124*			
LCS (P5B0517-BS1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	58.1	7.0	mg/kg wet	66.64		87	55-109			
Surrogate: o-Terphenyl	*1.24*		*mg/kg wet*	*1.333*		*93*	*49-124*			
LCS Dup (P5B0517-BSD1)				Prepared & Analyzed: 02/27/15						
Diesel Range Organics	66.5	7.0	mg/kg wet	66.64		100	55-109	14	20	
Surrogate: o-Terphenyl	*1.36*		*mg/kg wet*	*1.333*		*102*	*49-124*			
Matrix Spike (P5B0517-MS1)	**Source: 5020449-01**			Prepared: 02/27/15 Analyzed: 02/28/15						
Diesel Range Organics	77.5	9.0	mg/kg dry	86.18	1.58	88	50-117			
Surrogate: o-Terphenyl	*1.71*		*mg/kg dry*	*1.724*		*99*	*49-124*			
Matrix Spike Dup (P5B0517-MSD1)	**Source: 5020449-01**			Prepared: 02/27/15 Analyzed: 02/28/15						
Diesel Range Organics	73.1	9.1	mg/kg dry	86.21	1.58	83	50-117	6	24	
Surrogate: o-Terphenyl	*1.58*		*mg/kg dry*	*1.724*		*91*	*49-124*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0003 - 3050B										
Blank (P5C0003-BLK1)				Prepared: 03/02/15 Analyzed: 03/03/15						
Chromium	BRL	0.25	mg/kg wet							
Lead	BRL	0.25	mg/kg wet							
LCS (P5C0003-BS1)				Prepared: 03/02/15 Analyzed: 03/03/15						
Chromium	25.7	0.25	mg/kg wet	25.00		103	80-120			
Lead	24.9	0.25	mg/kg wet	25.00		99	80-120			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020449
Time Submitted: 2/25/2015 4:55:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0095 - Solids, Dry Weight										
Blank (P5C0095-BLK1)				Prepared & Analyzed: 03/05/15						
% Solids	100	0.100	% by Weight							

Sample Extraction Data

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020449-01	P5B0517	30.04 g	1 mL	02/27/15 11:30

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020449-03	P5C0037	10.01 g	2 mL	03/03/15 11:10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020449-02	P5C0069	5.19 g	5 mL	03/04/15 12:38
5020449-04	P5C0069	4.89 g	5 mL	03/04/15 12:38
5020449-05	P5C0069	5.61 g	5 mL	03/04/15 12:38

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
5020449-01	P5C0095	30 g	30 g	03/05/15 12:45
5020449-02	P5C0095	30 g	30 g	03/05/15 12:45
5020449-03	P5C0095	30 g	30 g	03/05/15 12:45
5020449-04	P5C0095	30 g	30 g	03/05/15 12:45
5020449-05	P5C0095	30 g	30 g	03/05/15 12:45

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020449-03	P5C0033	30.06 g	1 mL	03/03/15 10:50

Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
5020449-03	P5C0003	2.05 g	50 mL	03/02/15 8:20

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020449-02	P5B0514	4.81 g	5 mL	02/27/15 8:37
5020449-03	P5B0514	4.66 g	5 mL	02/27/15 8:37

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020449-02	P5C0017	4.54 g	5 mL	03/02/15 8:47
5020449-02	P5C0017	4.54 g	5 mL	03/02/15 8:47
5020449-04	P5C0017	4.74 g	5 mL	03/02/15 8:47
5020449-04	P5C0017	4.74 g	5 mL	03/02/15 8:47
5020449-05	P5C0017	5.64 g	5 mL	03/02/15 8:47
5020449-05	P5C0017	5.64 g	5 mL	03/02/15 8:47

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date/Time
5020449-03	P5C0018	15.55 g	16 mL	03/02/15 15:03

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Charlotte Airport Rental Car Facility
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Client Company Name: URS
Report To/Contact Name: James McDorman
Reporting Address: 6000 Fairview Rd Suite 200 Charlotte, NC
Phone: 704 7160034 Fax (Yes) (No):
Email Address: James.McDorman@AECOM.com
EDD Type: PDF Excel Other
Site Location Name: Airport Rental Car Facilities
Site Location Physical Address: Rental Car Rd

Invoice To: Michelle Friedman
Address: 5825 Carnegie Blvd, Suite 320 Charlotte, NC 28209
Purchase Order No./Billing Reference 60340238

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?			✓
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR7-10 Observed: 6.1 °C / Corr: 4.7 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X
SC____ OTHER____ N/A____
Water Chlorinated: YES____ NO____
Sample Iced Upon Collection: YES X NO____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED: 8260B	GRO	DRO	VPH+EPH	SVOC	5+RB	REMARKS	PRISM LAB ID NO.
URS, TMW-2	2/25/15	1220	Soil	VOA+G	1	40Z	Methanol/None			X					01
URS SB1		1115			6	40mL 2OZ		X	X						02
URS TMW-3		1200			7	40mL 4OZ 8OZ		X			X	X	X		03
URS TMW-4 (6-8)		0930			6	40mL 2OZ		X	X						04
URS TMW-4 (10-12)		1100			6	40mL 2OZ		X	X						05

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature _____ Sampled By (Print Name) Andrew Wreschnig Affiliation URS/AECOM

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)		
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 2-25-15	1655

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☐ Other
COC Group No. 502049

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/10/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/26/2015
Prism Work Order: 5020471

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones
President/Project Manager

Reviewed By Robbi A. Jones
President/Project Manager

Data Qualifiers Key Reference:

A	Low surrogate recovery. Sample was reanalyzed with no improvement in recovery.
CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

03/10/2015

Prism Work Order: 5020471

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Dollar TMW-3	5020471-01	Solid	02/25/15	02/26/15
Dollar TMW-5	5020471-02	Solid	02/26/15	02/26/15
Dollar TMW-2	5020471-03	Solid	02/25/15	02/26/15
Dollar TMW-4	5020471-04	Solid	02/25/15	02/26/15
Dollar TMW-6	5020471-05	Solid	02/26/15	02/26/15
Trip Blank	5020471-06	Water	02/26/15	02/26/15

Samples were received in good condition at 5.1 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/10/2015

Prism Work Order: 5020471

Prism ID	Client ID	Parameter	Method	Result		Units
5020471-02	Dollar TMW-5	Diesel Range Organics	*8015C	92		mg/kg dry
5020471-03	Dollar TMW-2	tert-Amyl Alcohol	8260B	0.0084	J	mg/kg dry
5020471-05	Dollar TMW-6	Chromium	*6010C	3.1		mg/kg dry
5020471-05	Dollar TMW-6	Lead	*6010C	8.4		mg/kg dry

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-3
Prism Sample ID: 5020471-01
Prism Work Order: 5020471
Time Collected: 02/25/15 17:05
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	7.6	1.6	50	*8015C	3/4/15 19:03	ANG	P5C0069
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*94 %*		*50-137*	
General Chemistry Parameters									
% Solids	**61.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0080	0.00066	1	8260B	2/27/15 14:18	MSC	P5B0514
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0080	0.00039	1	8260B	2/27/15 14:18	MSC	P5B0514
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0080	0.00054	1	8260B	2/27/15 14:18	MSC	P5B0514
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0080	0.00071	1	8260B	2/27/15 14:18	MSC	P5B0514
1,1-Dichloroethane	BRL	mg/kg dry	0.0080	0.00022	1	8260B	2/27/15 14:18	MSC	P5B0514
1,1-Dichloroethylene	BRL	mg/kg dry	0.0080	0.00035	1	8260B	2/27/15 14:18	MSC	P5B0514
1,1-Dichloropropylene	BRL	mg/kg dry	0.0080	0.00044	1	8260B	2/27/15 14:18	MSC	P5B0514
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0080	0.00046	1	8260B	2/27/15 14:18	MSC	P5B0514
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0080	0.0010	1	8260B	2/27/15 14:18	MSC	P5B0514
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0080	0.00060	1	8260B	2/27/15 14:18	MSC	P5B0514
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0080	0.00061	1	8260B	2/27/15 14:18	MSC	P5B0514
1,2-Dibromoethane	BRL	mg/kg dry	0.0080	0.00032	1	8260B	2/27/15 14:18	MSC	P5B0514
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0080	0.00038	1	8260B	2/27/15 14:18	MSC	P5B0514
1,2-Dichloroethane	BRL	mg/kg dry	0.0080	0.00048	1	8260B	2/27/15 14:18	MSC	P5B0514
1,2-Dichloropropane	BRL	mg/kg dry	0.0080	0.00050	1	8260B	2/27/15 14:18	MSC	P5B0514
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0080	0.00061	1	8260B	2/27/15 14:18	MSC	P5B0514
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0080	0.00053	1	8260B	2/27/15 14:18	MSC	P5B0514
1,3-Dichloropropane	BRL	mg/kg dry	0.0080	0.00040	1	8260B	2/27/15 14:18	MSC	P5B0514
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0080	0.00032	1	8260B	2/27/15 14:18	MSC	P5B0514
2,2-Dichloropropane	BRL	mg/kg dry	0.0080	0.00038	1	8260B	2/27/15 14:18	MSC	P5B0514
2-Chlorotoluene	BRL	mg/kg dry	0.0080	0.00041	1	8260B	2/27/15 14:18	MSC	P5B0514
4-Chlorotoluene	BRL	mg/kg dry	0.0080	0.00048	1	8260B	2/27/15 14:18	MSC	P5B0514
4-Isopropyltoluene	BRL	mg/kg dry	0.0080	0.00039	1	8260B	2/27/15 14:18	MSC	P5B0514
Acetone	BRL	mg/kg dry	0.080	0.0020	1	8260B	2/27/15 14:18	MSC	P5B0514
Benzene	BRL	mg/kg dry	0.0048	0.00047	1	8260B	2/27/15 14:18	MSC	P5B0514
Bromobenzene	BRL	mg/kg dry	0.0080	0.00067	1	8260B	2/27/15 14:18	MSC	P5B0514
Bromochloromethane	BRL	mg/kg dry	0.0080	0.00044	1	8260B	2/27/15 14:18	MSC	P5B0514
Bromodichloromethane	BRL	mg/kg dry	0.0080	0.00045	1	8260B	2/27/15 14:18	MSC	P5B0514
Bromoform	BRL	mg/kg dry	0.0080	0.00091	1	8260B	2/27/15 14:18	MSC	P5B0514
Bromomethane	BRL	mg/kg dry	0.016	0.00099	1	8260B	2/27/15 14:18	MSC	P5B0514
Carbon Tetrachloride	BRL	mg/kg dry	0.0080	0.00040	1	8260B	2/27/15 14:18	MSC	P5B0514
Chlorobenzene	BRL	mg/kg dry	0.0080	0.00043	1	8260B	2/27/15 14:18	MSC	P5B0514
Chloroethane	BRL	mg/kg dry	0.016	0.00067	1	8260B	2/27/15 14:18	MSC	P5B0514
Chloroform	BRL	mg/kg dry	0.0080	0.00058	1	8260B	2/27/15 14:18	MSC	P5B0514
Chloromethane	BRL	mg/kg dry	0.0080	0.00054	1	8260B	2/27/15 14:18	MSC	P5B0514

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-3
Prism Sample ID: 5020471-01
Prism Work Order: 5020471
Time Collected: 02/25/15 17:05
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0080	0.00034	1	8260B	2/27/15 14:18	MSC	P5B0514
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0080	0.00027	1	8260B	2/27/15 14:18	MSC	P5B0514
Dibromochloromethane	BRL	mg/kg dry	0.0080	0.00033	1	8260B	2/27/15 14:18	MSC	P5B0514
Dichlorodifluoromethane	BRL	mg/kg dry	0.0080	0.00036	1	8260B	2/27/15 14:18	MSC	P5B0514
Ethanol	BRL	mg/kg dry	0.40	0.16	1	8260B	2/27/15 14:18	MSC	P5B0514
Ethylbenzene	BRL	mg/kg dry	0.0080	0.00031	1	8260B	2/27/15 14:18	MSC	P5B0514
Isopropyl Ether	BRL	mg/kg dry	0.0080	0.00033	1	8260B	2/27/15 14:18	MSC	P5B0514
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0080	0.00048	1	8260B	2/27/15 14:18	MSC	P5B0514
m,p-Xylenes	BRL	mg/kg dry	0.016	0.00074	1	8260B	2/27/15 14:18	MSC	P5B0514
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.080	0.00073	1	8260B	2/27/15 14:18	MSC	P5B0514
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.16	0.00073	1	8260B	2/27/15 14:18	MSC	P5B0514
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.080	0.00068	1	8260B	2/27/15 14:18	MSC	P5B0514
Methylene Chloride	BRL	mg/kg dry	0.0080	0.00045	1	8260B	2/27/15 14:18	MSC	P5B0514
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.016	0.00026	1	8260B	2/27/15 14:18	MSC	P5B0514
Naphthalene	BRL	mg/kg dry	0.016	0.00025	1	8260B	2/27/15 14:18	MSC	P5B0514
n-Butylbenzene	BRL	mg/kg dry	0.0080	0.00041	1	8260B	2/27/15 14:18	MSC	P5B0514
n-Propylbenzene	BRL	mg/kg dry	0.0080	0.00048	1	8260B	2/27/15 14:18	MSC	P5B0514
o-Xylene	BRL	mg/kg dry	0.0080	0.00033	1	8260B	2/27/15 14:18	MSC	P5B0514
sec-Butylbenzene	BRL	mg/kg dry	0.0080	0.00039	1	8260B	2/27/15 14:18	MSC	P5B0514
Styrene	BRL	mg/kg dry	0.0080	0.00048	1	8260B	2/27/15 14:18	MSC	P5B0514
tert-Amyl Alcohol	BRL	mg/kg dry	0.64	0.0067	1	8260B	2/27/15 14:18	MSC	P5B0514
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.16	0.00069	1	8260B	2/27/15 14:18	MSC	P5B0514
tert-Butyl Alcohol	BRL	mg/kg dry	0.32	0.00056	1	8260B	2/27/15 14:18	MSC	P5B0514
tert-Butyl Formate	BRL	mg/kg dry	0.64	0.00080	1	8260B	2/27/15 14:18	MSC	P5B0514
tert-Butylbenzene	BRL	mg/kg dry	0.0080	0.00027	1	8260B	2/27/15 14:18	MSC	P5B0514
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.16	0.00056	1	8260B	2/27/15 14:18	MSC	P5B0514
Tetrachloroethylene	BRL	mg/kg dry	0.0080	0.00038	1	8260B	2/27/15 14:18	MSC	P5B0514
Toluene	BRL	mg/kg dry	0.0080	0.00046	1	8260B	2/27/15 14:18	MSC	P5B0514
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0080	0.00048	1	8260B	2/27/15 14:18	MSC	P5B0514
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0080	0.00042	1	8260B	2/27/15 14:18	MSC	P5B0514
Trichloroethylene	BRL	mg/kg dry	0.0080	0.00052	1	8260B	2/27/15 14:18	MSC	P5B0514
Trichlorofluoromethane	BRL	mg/kg dry	0.0080	0.00052	1	8260B	2/27/15 14:18	MSC	P5B0514
Vinyl acetate	BRL	mg/kg dry	0.040	0.0011	1	8260B	2/27/15 14:18	MSC	P5B0514
Vinyl chloride	BRL	mg/kg dry	0.0080	0.00039	1	8260B	2/27/15 14:18	MSC	P5B0514
Xylenes, total	BRL	mg/kg dry	0.024	0.0015	1	8260B	2/27/15 14:18	MSC	P5B0514

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*93 %*	*70-130*
Dibromofluoromethane	*95 %*	*84-123*
Toluene-d8	*92 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-5
Prism Sample ID: 5020471-02
Prism Work Order: 5020471
Time Collected: 02/26/15 12:00
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**92**	**mg/kg dry**	**9.9**	**1.4**	**1**	***8015C**	**3/6/15 3:50**	**JMV**	**P5C0091**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*103 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.8	1.2	50	*8015C	3/4/15 19:31	ANG	P5C0069
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*134 %*		*50-137*	
General Chemistry Parameters									
% Solids	**71.0**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-2
Prism Sample ID: 5020471-03
Prism Work Order: 5020471
Time Collected: 02/25/15 16:45
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.9	1.2	50	*8015C	3/4/15 19:59	ANG	P5C0069
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*104 %*		*50-137*	
General Chemistry Parameters									
% Solids	**74.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0067	0.00055	1	8260B	2/27/15 14:42	MSC	P5B0514
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/27/15 14:42	MSC	P5B0514
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0067	0.00045	1	8260B	2/27/15 14:42	MSC	P5B0514
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0067	0.00059	1	8260B	2/27/15 14:42	MSC	P5B0514
1,1-Dichloroethane	BRL	mg/kg dry	0.0067	0.00019	1	8260B	2/27/15 14:42	MSC	P5B0514
1,1-Dichloroethylene	BRL	mg/kg dry	0.0067	0.00030	1	8260B	2/27/15 14:42	MSC	P5B0514
1,1-Dichloropropylene	BRL	mg/kg dry	0.0067	0.00037	1	8260B	2/27/15 14:42	MSC	P5B0514
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0067	0.00038	1	8260B	2/27/15 14:42	MSC	P5B0514
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0067	0.00086	1	8260B	2/27/15 14:42	MSC	P5B0514
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0067	0.00050	1	8260B	2/27/15 14:42	MSC	P5B0514
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0067	0.00051	1	8260B	2/27/15 14:42	MSC	P5B0514
1,2-Dibromoethane	BRL	mg/kg dry	0.0067	0.00027	1	8260B	2/27/15 14:42	MSC	P5B0514
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/27/15 14:42	MSC	P5B0514
1,2-Dichloroethane	BRL	mg/kg dry	0.0067	0.00040	1	8260B	2/27/15 14:42	MSC	P5B0514
1,2-Dichloropropane	BRL	mg/kg dry	0.0067	0.00042	1	8260B	2/27/15 14:42	MSC	P5B0514
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0067	0.00051	1	8260B	2/27/15 14:42	MSC	P5B0514
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0067	0.00044	1	8260B	2/27/15 14:42	MSC	P5B0514
1,3-Dichloropropane	BRL	mg/kg dry	0.0067	0.00034	1	8260B	2/27/15 14:42	MSC	P5B0514
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0067	0.00026	1	8260B	2/27/15 14:42	MSC	P5B0514
2,2-Dichloropropane	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/27/15 14:42	MSC	P5B0514
2-Chlorotoluene	BRL	mg/kg dry	0.0067	0.00035	1	8260B	2/27/15 14:42	MSC	P5B0514
4-Chlorotoluene	BRL	mg/kg dry	0.0067	0.00040	1	8260B	2/27/15 14:42	MSC	P5B0514
4-Isopropyltoluene	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/27/15 14:42	MSC	P5B0514
Acetone	BRL	mg/kg dry	0.067	0.0016	1	8260B	2/27/15 14:42	MSC	P5B0514
Benzene	BRL	mg/kg dry	0.0040	0.00039	1	8260B	2/27/15 14:42	MSC	P5B0514
Bromobenzene	BRL	mg/kg dry	0.0067	0.00056	1	8260B	2/27/15 14:42	MSC	P5B0514
Bromochloromethane	BRL	mg/kg dry	0.0067	0.00037	1	8260B	2/27/15 14:42	MSC	P5B0514
Bromodichloromethane	BRL	mg/kg dry	0.0067	0.00037	1	8260B	2/27/15 14:42	MSC	P5B0514
Bromoform	BRL	mg/kg dry	0.0067	0.00076	1	8260B	2/27/15 14:42	MSC	P5B0514
Bromomethane	BRL	mg/kg dry	0.013	0.00083	1	8260B	2/27/15 14:42	MSC	P5B0514
Carbon Tetrachloride	BRL	mg/kg dry	0.0067	0.00033	1	8260B	2/27/15 14:42	MSC	P5B0514
Chlorobenzene	BRL	mg/kg dry	0.0067	0.00036	1	8260B	2/27/15 14:42	MSC	P5B0514
Chloroethane	BRL	mg/kg dry	0.013	0.00056	1	8260B	2/27/15 14:42	MSC	P5B0514
Chloroform	BRL	mg/kg dry	0.0067	0.00048	1	8260B	2/27/15 14:42	MSC	P5B0514
Chloromethane	BRL	mg/kg dry	0.0067	0.00045	1	8260B	2/27/15 14:42	MSC	P5B0514

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-2
Prism Sample ID: 5020471-03
Prism Work Order: 5020471
Time Collected: 02/25/15 16:45
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0067	0.00029	1	8260B	2/27/15 14:42	MSC	P5B0514
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0067	0.00023	1	8260B	2/27/15 14:42	MSC	P5B0514
Dibromochloromethane	BRL	mg/kg dry	0.0067	0.00028	1	8260B	2/27/15 14:42	MSC	P5B0514
Dichlorodifluoromethane	BRL	mg/kg dry	0.0067	0.00030	1	8260B	2/27/15 14:42	MSC	P5B0514
Ethanol	BRL	mg/kg dry	0.34	0.13	1	8260B	2/27/15 14:42	MSC	P5B0514
Ethylbenzene	BRL	mg/kg dry	0.0067	0.00026	1	8260B	2/27/15 14:42	MSC	P5B0514
Isopropyl Ether	BRL	mg/kg dry	0.0067	0.00027	1	8260B	2/27/15 14:42	MSC	P5B0514
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0067	0.00040	1	8260B	2/27/15 14:42	MSC	P5B0514
m,p-Xylenes	BRL	mg/kg dry	0.013	0.00062	1	8260B	2/27/15 14:42	MSC	P5B0514
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.067	0.00061	1	8260B	2/27/15 14:42	MSC	P5B0514
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.13	0.00061	1	8260B	2/27/15 14:42	MSC	P5B0514
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.067	0.00057	1	8260B	2/27/15 14:42	MSC	P5B0514
Methylene Chloride	BRL	mg/kg dry	0.0067	0.00038	1	8260B	2/27/15 14:42	MSC	P5B0514
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.013	0.00021	1	8260B	2/27/15 14:42	MSC	P5B0514
Naphthalene	BRL	mg/kg dry	0.013	0.00021	1	8260B	2/27/15 14:42	MSC	P5B0514
n-Butylbenzene	BRL	mg/kg dry	0.0067	0.00034	1	8260B	2/27/15 14:42	MSC	P5B0514
n-Propylbenzene	BRL	mg/kg dry	0.0067	0.00040	1	8260B	2/27/15 14:42	MSC	P5B0514
o-Xylene	BRL	mg/kg dry	0.0067	0.00027	1	8260B	2/27/15 14:42	MSC	P5B0514
sec-Butylbenzene	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/27/15 14:42	MSC	P5B0514
Styrene	BRL	mg/kg dry	0.0067	0.00040	1	8260B	2/27/15 14:42	MSC	P5B0514
tert-Amyl Alcohol	**0.0084 J**	**mg/kg dry**	**0.54**	**0.0056**	**1**	**8260B**	**2/27/15 14:42**	**MSC**	**P5B0514**
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.13	0.00057	1	8260B	2/27/15 14:42	MSC	P5B0514
tert-Butyl Alcohol	BRL	mg/kg dry	0.27	0.00047	1	8260B	2/27/15 14:42	MSC	P5B0514
tert-Butyl Formate	BRL	mg/kg dry	0.54	0.00067	1	8260B	2/27/15 14:42	MSC	P5B0514
tert-Butylbenzene	BRL	mg/kg dry	0.0067	0.00023	1	8260B	2/27/15 14:42	MSC	P5B0514
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.13	0.00047	1	8260B	2/27/15 14:42	MSC	P5B0514
Tetrachloroethylene	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/27/15 14:42	MSC	P5B0514
Toluene	BRL	mg/kg dry	0.0067	0.00038	1	8260B	2/27/15 14:42	MSC	P5B0514
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0067	0.00040	1	8260B	2/27/15 14:42	MSC	P5B0514
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0067	0.00035	1	8260B	2/27/15 14:42	MSC	P5B0514
Trichloroethylene	BRL	mg/kg dry	0.0067	0.00043	1	8260B	2/27/15 14:42	MSC	P5B0514
Trichlorofluoromethane	BRL	mg/kg dry	0.0067	0.00043	1	8260B	2/27/15 14:42	MSC	P5B0514
Vinyl acetate	BRL	mg/kg dry	0.034	0.00092	1	8260B	2/27/15 14:42	MSC	P5B0514
Vinyl chloride	BRL	mg/kg dry	0.0067	0.00032	1	8260B	2/27/15 14:42	MSC	P5B0514
Xylenes, total	BRL	mg/kg dry	0.020	0.0013	1	8260B	2/27/15 14:42	MSC	P5B0514

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*76 %*	*70-130*	
Dibromofluoromethane	*77 %*	*84-123*	*A*
Toluene-d8	*75 %*	*76-129*	*A*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-4
Prism Sample ID: 5020471-04
Prism Work Order: 5020471
Time Collected: 02/25/15 17:00
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	10	1.5	1	*8015C	3/5/15 21:06	JMV	P5C0091
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*63 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.2	1.3	50	*8015C	3/4/15 20:27	ANG	P5C0069
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*95 %*		*50-137*	
General Chemistry Parameters									
% Solids	**68.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-6
Prism Sample ID: 5020471-05
Prism Work Order: 5020471
Time Collected: 02/26/15 13:45
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	14	0.80	1	MADEP EPH	3/5/15 19:59	KC	P5C0037
C19-C36 Aliphatics	BRL	mg/kg dry	14	3.3	1	MADEP EPH	3/5/15 19:59	KC	P5C0037
C11-C22 Aromatics	BRL	mg/kg dry	14	2.5	1	MADEP EPH	3/5/15 19:59	KC	P5C0037

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*80 %*	*40-140*
o-Terphenyl	*78 %*	*40-140*
2-Fluorobiphenyl	*97 %*	*40-140*
2-Bromonaphthalene	*82 %*	*40-140*

General Chemistry Parameters									
% Solids	**71.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.46	0.072	1	8270D	3/4/15 12:16	KC	P5C0033
1,2-Dichlorobenzene	BRL	mg/kg dry	0.46	0.070	1	8270D	3/4/15 12:16	KC	P5C0033
1,3-Dichlorobenzene	BRL	mg/kg dry	0.46	0.065	1	8270D	3/4/15 12:16	KC	P5C0033
1,4-Dichlorobenzene	BRL	mg/kg dry	0.46	0.068	1	8270D	3/4/15 12:16	KC	P5C0033
1-Methylnaphthalene	BRL	mg/kg dry	0.46	0.089	1	8270D	3/4/15 12:16	KC	P5C0033
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.46	0.087	1	8270D	3/4/15 12:16	KC	P5C0033
2,4-Dichlorophenol	BRL	mg/kg dry	0.46	0.089	1	8270D	3/4/15 12:16	KC	P5C0033
2,4-Dimethylphenol	BRL	mg/kg dry	0.46	0.071	1	8270D	3/4/15 12:16	KC	P5C0033
2,4-Dinitrophenol	BRL	mg/kg dry	0.46	0.065	1	8270D	3/4/15 12:16	KC	P5C0033
2,4-Dinitrotoluene	BRL	mg/kg dry	0.46	0.056	1	8270D	3/4/15 12:16	KC	P5C0033
2,6-Dinitrotoluene	BRL	mg/kg dry	0.46	0.062	1	8270D	3/4/15 12:16	KC	P5C0033
2-Chloronaphthalene	BRL	mg/kg dry	0.46	0.067	1	8270D	3/4/15 12:16	KC	P5C0033
2-Chlorophenol	BRL	mg/kg dry	0.46	0.066	1	8270D	3/4/15 12:16	KC	P5C0033
2-Methylnaphthalene	BRL	mg/kg dry	0.46	0.074	1	8270D	3/4/15 12:16	KC	P5C0033
2-Methylphenol	BRL	mg/kg dry	0.46	0.059	1	8270D	3/4/15 12:16	KC	P5C0033
2-Nitrophenol	BRL	mg/kg dry	0.46	0.084	1	8270D	3/4/15 12:16	KC	P5C0033
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.46	0.091	1	8270D	3/4/15 12:16	KC	P5C0033
3/4-Methylphenol	BRL	mg/kg dry	0.46	0.057	1	8270D	3/4/15 12:16	KC	P5C0033
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.46	0.070	1	8270D	3/4/15 12:16	KC	P5C0033
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.46	0.080	1	8270D	3/4/15 12:16	KC	P5C0033
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.46	0.065	1	8270D	3/4/15 12:16	KC	P5C0033
4-Chloroaniline	BRL	mg/kg dry	0.46	0.056	1	8270D	3/4/15 12:16	KC	P5C0033
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.46	0.060	1	8270D	3/4/15 12:16	KC	P5C0033
4-Nitrophenol	BRL	mg/kg dry	0.46	0.071	1	8270D	3/4/15 12:16	KC	P5C0033
Acenaphthene	BRL	mg/kg dry	0.46	0.063	1	8270D	3/4/15 12:16	KC	P5C0033
Acenaphthylene	BRL	mg/kg dry	0.46	0.067	1	8270D	3/4/15 12:16	KC	P5C0033
Anthracene	BRL	mg/kg dry	0.46	0.075	1	8270D	3/4/15 12:16	KC	P5C0033
Azobenzene	BRL	mg/kg dry	0.46	0.061	1	8270D	3/4/15 12:16	KC	P5C0033
Benzo(a)anthracene	BRL	mg/kg dry	0.46	0.061	1	8270D	3/4/15 12:16	KC	P5C0033
Benzo(a)pyrene	BRL	mg/kg dry	0.46	0.050	1	8270D	3/4/15 12:16	KC	P5C0033

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-6
Prism Sample ID: 5020471-05
Prism Work Order: 5020471
Time Collected: 02/26/15 13:45
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.46	0.054	1	8270D	3/4/15 12:16	KC	P5C0033
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.46	0.051	1	8270D	3/4/15 12:16	KC	P5C0033
Benzo(k)fluoranthene	BRL	mg/kg dry	0.46	0.061	1	8270D	3/4/15 12:16	KC	P5C0033
Benzoic Acid	BRL CCV	mg/kg dry	0.46	0.039	1	8270D	3/4/15 12:16	KC	P5C0033
Benzyl alcohol	BRL	mg/kg dry	0.46	0.061	1	8270D	3/4/15 12:16	KC	P5C0033
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.46	0.080	1	8270D	3/4/15 12:16	KC	P5C0033
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.46	0.065	1	8270D	3/4/15 12:16	KC	P5C0033
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.46	0.079	1	8270D	3/4/15 12:16	KC	P5C0033
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.46	0.069	1	8270D	3/4/15 12:16	KC	P5C0033
Butyl benzyl phthalate	BRL	mg/kg dry	0.46	0.066	1	8270D	3/4/15 12:16	KC	P5C0033
Chrysene	BRL	mg/kg dry	0.46	0.058	1	8270D	3/4/15 12:16	KC	P5C0033
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.46	0.056	1	8270D	3/4/15 12:16	KC	P5C0033
Dibenzofuran	BRL	mg/kg dry	0.46	0.070	1	8270D	3/4/15 12:16	KC	P5C0033
Diethyl phthalate	BRL	mg/kg dry	0.46	0.064	1	8270D	3/4/15 12:16	KC	P5C0033
Dimethyl phthalate	BRL	mg/kg dry	0.46	0.061	1	8270D	3/4/15 12:16	KC	P5C0033
Di-n-butyl phthalate	BRL	mg/kg dry	0.46	0.066	1	8270D	3/4/15 12:16	KC	P5C0033
Di-n-octyl phthalate	BRL	mg/kg dry	0.46	0.057	1	8270D	3/4/15 12:16	KC	P5C0033
Fluoranthene	BRL	mg/kg dry	0.46	0.059	1	8270D	3/4/15 12:16	KC	P5C0033
Fluorene	BRL	mg/kg dry	0.46	0.066	1	8270D	3/4/15 12:16	KC	P5C0033
Hexachlorobenzene	BRL	mg/kg dry	0.46	0.074	1	8270D	3/4/15 12:16	KC	P5C0033
Hexachlorobutadiene	BRL	mg/kg dry	0.46	0.083	1	8270D	3/4/15 12:16	KC	P5C0033
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.46	0.083	1	8270D	3/4/15 12:16	KC	P5C0033
Hexachloroethane	BRL	mg/kg dry	0.46	0.078	1	8270D	3/4/15 12:16	KC	P5C0033
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.46	0.053	1	8270D	3/4/15 12:16	KC	P5C0033
Isophorone	BRL	mg/kg dry	0.46	0.063	1	8270D	3/4/15 12:16	KC	P5C0033
Naphthalene	BRL	mg/kg dry	0.46	0.074	1	8270D	3/4/15 12:16	KC	P5C0033
Nitrobenzene	BRL	mg/kg dry	0.46	0.066	1	8270D	3/4/15 12:16	KC	P5C0033
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.46	0.073	1	8270D	3/4/15 12:16	KC	P5C0033
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.46	0.070	1	8270D	3/4/15 12:16	KC	P5C0033
Pentachlorophenol	BRL	mg/kg dry	0.46	0.055	1	8270D	3/4/15 12:16	KC	P5C0033
Phenanthrene	BRL	mg/kg dry	0.46	0.060	1	8270D	3/4/15 12:16	KC	P5C0033
Phenol	BRL	mg/kg dry	0.46	0.068	1	8270D	3/4/15 12:16	KC	P5C0033
Pyrene	BRL	mg/kg dry	0.46	0.061	1	8270D	3/4/15 12:16	KC	P5C0033

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*83 %*	*39-132*
2-Fluorobiphenyl	*90 %*	*44-115*
2-Fluorophenol	*89 %*	*35-115*
Nitrobenzene-d5	*83 %*	*37-122*
Phenol-d5	*84 %*	*34-121*
Terphenyl-d14	*105 %*	*54-127*

Total Metals

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chromium	**3.1**	**mg/kg dry**	**0.36**	**0.059**	**1**	***6010C**	**3/3/15 20:16**	**BGM**	**P5C0003**
Lead	**8.4**	**mg/kg dry**	**0.36**	**0.054**	**1**	***6010C**	**3/3/15 20:16**	**BGM**	**P5C0003**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-6
Prism Sample ID: 5020471-05
Prism Work Order: 5020471
Time Collected: 02/26/15 13:45
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0060	0.00049	1	8260B	3/2/15 13:19	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0060	0.00029	1	8260B	3/2/15 13:19	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0060	0.00041	1	8260B	3/2/15 13:19	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0060	0.00053	1	8260B	3/2/15 13:19	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0060	0.00017	1	8260B	3/2/15 13:19	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00027	1	8260B	3/2/15 13:19	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00033	1	8260B	3/2/15 13:19	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0060	0.00034	1	8260B	3/2/15 13:19	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0060	0.00077	1	8260B	3/2/15 13:19	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0060	0.00045	1	8260B	3/2/15 13:19	MSC	P5C0014
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0060	0.00046	1	8260B	3/2/15 13:19	MSC	P5C0014
1,2-Dibromoethane	BRL	mg/kg dry	0.0060	0.00024	1	8260B	3/2/15 13:19	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00028	1	8260B	3/2/15 13:19	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0060	0.00036	1	8260B	3/2/15 13:19	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0060	0.00037	1	8260B	3/2/15 13:19	MSC	P5C0014
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0060	0.00045	1	8260B	3/2/15 13:19	MSC	P5C0014
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00040	1	8260B	3/2/15 13:19	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0060	0.00030	1	8260B	3/2/15 13:19	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00024	1	8260B	3/2/15 13:19	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0060	0.00029	1	8260B	3/2/15 13:19	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0060	0.00031	1	8260B	3/2/15 13:19	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0060	0.00036	1	8260B	3/2/15 13:19	MSC	P5C0014
4-Isopropyltoluene	BRL	mg/kg dry	0.0060	0.00029	1	8260B	3/2/15 13:19	MSC	P5C0014
Acetone	BRL	mg/kg dry	0.060	0.0015	1	8260B	3/2/15 13:19	MSC	P5C0014
Benzene	BRL	mg/kg dry	0.0036	0.00035	1	8260B	3/2/15 13:19	MSC	P5C0014
Bromobenzene	BRL	mg/kg dry	0.0060	0.00050	1	8260B	3/2/15 13:19	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0060	0.00033	1	8260B	3/2/15 13:19	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0060	0.00034	1	8260B	3/2/15 13:19	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0060	0.00068	1	8260B	3/2/15 13:19	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.012	0.00074	1	8260B	3/2/15 13:19	MSC	P5C0014
Carbon Tetrachloride	BRL	mg/kg dry	0.0060	0.00030	1	8260B	3/2/15 13:19	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0060	0.00032	1	8260B	3/2/15 13:19	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.012	0.00050	1	8260B	3/2/15 13:19	MSC	P5C0014
Chloroform	BRL	mg/kg dry	0.0060	0.00043	1	8260B	3/2/15 13:19	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0060	0.00040	1	8260B	3/2/15 13:19	MSC	P5C0014
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00026	1	8260B	3/2/15 13:19	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00020	1	8260B	3/2/15 13:19	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0060	0.00025	1	8260B	3/2/15 13:19	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0060	0.00027	1	8260B	3/2/15 13:19	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.30	0.12	1	8260B	3/2/15 13:19	MSC	P5C0014
Ethylbenzene	BRL	mg/kg dry	0.0060	0.00023	1	8260B	3/2/15 13:19	MSC	P5C0014
Isopropyl Ether	BRL	mg/kg dry	0.0060	0.00025	1	8260B	3/2/15 13:19	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dollar TMW-6
Prism Sample ID: 5020471-05
Prism Work Order: 5020471
Time Collected: 02/26/15 13:45
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0060	0.00036	1	8260B	3/2/15 13:19	MSC	P5C0014
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00055	1	8260B	3/2/15 13:19	MSC	P5C0014
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.060	0.00054	1	8260B	3/2/15 13:19	MSC	P5C0014
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00054	1	8260B	3/2/15 13:19	MSC	P5C0014
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.060	0.00051	1	8260B	3/2/15 13:19	MSC	P5C0014
Methylene Chloride	BRL	mg/kg dry	0.0060	0.00034	1	8260B	3/2/15 13:19	MSC	P5C0014
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00019	1	8260B	3/2/15 13:19	MSC	P5C0014
Naphthalene	BRL	mg/kg dry	0.012	0.00019	1	8260B	3/2/15 13:19	MSC	P5C0014
n-Butylbenzene	BRL	mg/kg dry	0.0060	0.00031	1	8260B	3/2/15 13:19	MSC	P5C0014
n-Propylbenzene	BRL	mg/kg dry	0.0060	0.00036	1	8260B	3/2/15 13:19	MSC	P5C0014
o-Xylene	BRL	mg/kg dry	0.0060	0.00025	1	8260B	3/2/15 13:19	MSC	P5C0014
sec-Butylbenzene	BRL	mg/kg dry	0.0060	0.00029	1	8260B	3/2/15 13:19	MSC	P5C0014
Styrene	BRL	mg/kg dry	0.0060	0.00036	1	8260B	3/2/15 13:19	MSC	P5C0014
tert-Amyl Alcohol	BRL	mg/kg dry	0.48	0.0050	1	8260B	3/2/15 13:19	MSC	P5C0014
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.12	0.00051	1	8260B	3/2/15 13:19	MSC	P5C0014
tert-Butyl Alcohol	BRL	mg/kg dry	0.24	0.00042	1	8260B	3/2/15 13:19	MSC	P5C0014
tert-Butyl Formate	BRL CCV	mg/kg dry	0.48	0.00060	1	8260B	3/2/15 13:19	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0060	0.00020	1	8260B	3/2/15 13:19	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.12	0.00042	1	8260B	3/2/15 13:19	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0060	0.00029	1	8260B	3/2/15 13:19	MSC	P5C0014
Toluene	BRL	mg/kg dry	0.0060	0.00034	1	8260B	3/2/15 13:19	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00036	1	8260B	3/2/15 13:19	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00032	1	8260B	3/2/15 13:19	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0060	0.00039	1	8260B	3/2/15 13:19	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0060	0.00039	1	8260B	3/2/15 13:19	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.030	0.00082	1	8260B	3/2/15 13:19	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0060	0.00029	1	8260B	3/2/15 13:19	MSC	P5C0014
Xylenes, total	BRL	mg/kg dry	0.018	0.0011	1	8260B	3/2/15 13:19	MSC	P5C0014

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*98 %*	*70-130*
Dibromofluoromethane	*98 %*	*84-123*
Toluene-d8	*97 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.9	0.23	100	MADEP VPH	3/2/15 21:21	ANG	P5C0018
C9-C12 Aliphatics	BRL	mg/kg dry	5.9	0.54	100	MADEP VPH	3/2/15 21:21	ANG	P5C0018
C9-C10 Aromatics	BRL	mg/kg dry	5.9	0.051	100	MADEP VPH	3/2/15 21:21	ANG	P5C0018

Surrogate	Recovery	Control Limits	
2,5-Dibromotoluene (PID)	*156 %*	*70-130*	*SR*
2,5-Dibromotoluene (FID)	*161 %*	*70-130*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020471-06
Prism Work Order: 5020471
Time Collected: 02/26/15 00:00
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/3/15 4:04	VHL	P5C0031
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	3/3/15 4:04	VHL	P5C0031
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/3/15 4:04	VHL	P5C0031
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/3/15 4:04	VHL	P5C0031
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	3/3/15 4:04	VHL	P5C0031
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	3/3/15 4:04	VHL	P5C0031
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/3/15 4:04	VHL	P5C0031
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/3/15 4:04	VHL	P5C0031
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/3/15 4:04	VHL	P5C0031
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/3/15 4:04	VHL	P5C0031
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/3/15 4:04	VHL	P5C0031
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/3/15 4:04	VHL	P5C0031
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/3/15 4:04	VHL	P5C0031
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/3/15 4:04	VHL	P5C0031
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/3/15 4:04	VHL	P5C0031
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/3/15 4:04	VHL	P5C0031
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/3/15 4:04	VHL	P5C0031
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/3/15 4:04	VHL	P5C0031
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/3/15 4:04	VHL	P5C0031
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/3/15 4:04	VHL	P5C0031
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/3/15 4:04	VHL	P5C0031
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.37	1	8260B	3/3/15 4:04	VHL	P5C0031
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/3/15 4:04	VHL	P5C0031
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/3/15 4:04	VHL	P5C0031
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/3/15 4:04	VHL	P5C0031
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/3/15 4:04	VHL	P5C0031
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/3/15 4:04	VHL	P5C0031
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/3/15 4:04	VHL	P5C0031
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/3/15 4:04	VHL	P5C0031
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/3/15 4:04	VHL	P5C0031
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/3/15 4:04	VHL	P5C0031
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/3/15 4:04	VHL	P5C0031
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/3/15 4:04	VHL	P5C0031
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/3/15 4:04	VHL	P5C0031
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/3/15 4:04	VHL	P5C0031
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/3/15 4:04	VHL	P5C0031
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/3/15 4:04	VHL	P5C0031
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/3/15 4:04	VHL	P5C0031
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/3/15 4:04	VHL	P5C0031
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/3/15 4:04	VHL	P5C0031
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	3/3/15 4:04	VHL	P5C0031
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/3/15 4:04	VHL	P5C0031

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5020471-06
Prism Work Order: 5020471
Time Collected: 02/26/15 00:00
Time Submitted: 02/26/15 16:27

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/3/15 4:04	VHL	P5C0031
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/3/15 4:04	VHL	P5C0031
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/3/15 4:04	VHL	P5C0031
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/3/15 4:04	VHL	P5C0031
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/3/15 4:04	VHL	P5C0031
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/3/15 4:04	VHL	P5C0031
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/3/15 4:04	VHL	P5C0031
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/3/15 4:04	VHL	P5C0031
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/3/15 4:04	VHL	P5C0031
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/3/15 4:04	VHL	P5C0031
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/3/15 4:04	VHL	P5C0031
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/3/15 4:04	VHL	P5C0031
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/3/15 4:04	VHL	P5C0031
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/3/15 4:04	VHL	P5C0031
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/3/15 4:04	VHL	P5C0031
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/3/15 4:04	VHL	P5C0031
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/3/15 4:04	VHL	P5C0031
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/3/15 4:04	VHL	P5C0031
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/3/15 4:04	VHL	P5C0031
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/3/15 4:04	VHL	P5C0031
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	3/3/15 4:04	VHL	P5C0031
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/3/15 4:04	VHL	P5C0031
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	3/3/15 4:04	VHL	P5C0031
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/3/15 4:04	VHL	P5C0031
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/3/15 4:04	VHL	P5C0031
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/3/15 4:04	VHL	P5C0031
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	3/3/15 4:04	VHL	P5C0031
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/3/15 4:04	VHL	P5C0031

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*115 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
Blank (P5B0514-BLK1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethanol	BRL	0.25	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
Blank (P5B0514-BLK1)			Prepared & Analyzed: 02/27/15							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Amyl Alcohol	BRL	0.40	mg/kg wet							
tert-Amyl Methyl Ether	BRL	0.10	mg/kg wet							
tert-Butyl Alcohol	BRL	0.20	mg/kg wet							
tert-Butyl Formate	BRL	0.40	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
tert-Butyl Ethyl Ether	BRL	0.10	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0516*		*mg/kg wet*	*0.05000*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0502*		*mg/kg wet*	*0.05000*		*100*	*84-123*			
Surrogate: Toluene-d8	*0.0501*		*mg/kg wet*	*0.05000*		*100*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS (P5B0514-BS1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	0.0536	0.0050	mg/kg wet	0.05000		107	72-115			
1,1,1-Trichloroethane	0.0514	0.0050	mg/kg wet	0.05000		103	67-131			
1,1,2,2-Tetrachloroethane	0.0532	0.0050	mg/kg wet	0.05000		106	56-126			
1,1,2-Trichloroethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-133			
1,1-Dichloroethane	0.0504	0.0050	mg/kg wet	0.05000		101	74-127			
1,1-Dichloroethylene	0.0519	0.0050	mg/kg wet	0.05000		104	67-149			
1,1-Dichloropropylene	0.0549	0.0050	mg/kg wet	0.05000		110	71-130			
1,2,3-Trichlorobenzene	0.0547	0.0050	mg/kg wet	0.05000		109	68-130			
1,2,3-Trichloropropane	0.0528	0.0050	mg/kg wet	0.05000		106	60-137			
1,2,4-Trichlorobenzene	0.0550	0.0050	mg/kg wet	0.05000		110	66-125			
1,2,4-Trimethylbenzene	0.0561	0.0050	mg/kg wet	0.05000		112	69-129			
1,2-Dibromoethane	0.0539	0.0050	mg/kg wet	0.05000		108	70-132			
1,2-Dichlorobenzene	0.0531	0.0050	mg/kg wet	0.05000		106	72-123			
1,2-Dichloroethane	0.0491	0.0050	mg/kg wet	0.05000		98	68-128			
1,2-Dichloropropane	0.0513	0.0050	mg/kg wet	0.05000		103	73-130			
1,3,5-Trimethylbenzene	0.0563	0.0050	mg/kg wet	0.05000		113	69-128			
1,3-Dichlorobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	71-120			
1,3-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	75-124			
1,4-Dichlorobenzene	0.0536	0.0050	mg/kg wet	0.05000		107	71-123			
2,2-Dichloropropane	0.0534	0.0050	mg/kg wet	0.05000		107	50-142			
2-Chlorotoluene	0.0546	0.0050	mg/kg wet	0.05000		109	67-124			
4-Chlorotoluene	0.0544	0.0050	mg/kg wet	0.05000		109	71-126			
4-Isopropyltoluene	0.0564	0.0050	mg/kg wet	0.05000		113	68-129			
Acetone	0.0951	0.050	mg/kg wet	0.1000		95	29-198			
Benzene	0.0539	0.0030	mg/kg wet	0.05000		108	74-127			
Bromobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	73-125			
Bromochloromethane	0.0510	0.0050	mg/kg wet	0.05000		102	72-134			
Bromodichloromethane	0.0488	0.0050	mg/kg wet	0.05000		98	75-122			
Bromoform	0.0488	0.0050	mg/kg wet	0.05000		97	66-135			
Bromomethane	0.0540	0.010	mg/kg wet	0.05000		108	20-180			
Carbon Tetrachloride	0.0544	0.0050	mg/kg wet	0.05000		109	64-143			
Chlorobenzene	0.0529	0.0050	mg/kg wet	0.05000		106	74-118			
Chloroethane	0.0496	0.010	mg/kg wet	0.05000		99	33-149			
Chloroform	0.0471	0.0050	mg/kg wet	0.05000		94	73-127			
Chloromethane	0.0422	0.0050	mg/kg wet	0.05000		84	45-143			
cis-1,2-Dichloroethylene	0.0529	0.0050	mg/kg wet	0.05000		106	76-134			
cis-1,3-Dichloropropylene	0.0530	0.0050	mg/kg wet	0.05000		106	71-125			
Dibromochloromethane	0.0493	0.0050	mg/kg wet	0.05000		99	73-122			
Dichlorodifluoromethane	0.0324	0.0050	mg/kg wet	0.05000		65	26-146			
Ethanol	1.27	0.25	mg/kg wet	1.250		101	70-130			
Ethylbenzene	0.0545	0.0050	mg/kg wet	0.05000		109	74-128			
Isopropyl Ether	0.0457	0.0050	mg/kg wet	0.05000		91	59-159			
Isopropylbenzene (Cumene)	0.0572	0.0050	mg/kg wet	0.05000		114	68-126			
m,p-Xylenes	0.113	0.010	mg/kg wet	0.1000		113	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0572	0.050	mg/kg wet	0.05000		114	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0510	0.10	mg/kg wet	0.05000		102	63-149			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS (P5B0514-BS1)				Prepared & Analyzed: 02/27/15						
Methyl Isobutyl Ketone	0.0532	0.050	mg/kg wet	0.05000		106	57-162			
Methylene Chloride	0.0483	0.0050	mg/kg wet	0.05000		97	74-129			
Methyl-tert-Butyl Ether	0.0521	0.010	mg/kg wet	0.05000		104	70-130			
Naphthalene	0.0555	0.010	mg/kg wet	0.05000		111	57-157			
n-Butylbenzene	0.0583	0.0050	mg/kg wet	0.05000		117	65-135			
n-Propylbenzene	0.0564	0.0050	mg/kg wet	0.05000		113	67-130			
o-Xylene	0.0548	0.0050	mg/kg wet	0.05000		110	74-126			
sec-Butylbenzene	0.0572	0.0050	mg/kg wet	0.05000		114	66-131			
Styrene	0.0581	0.0050	mg/kg wet	0.05000		116	77-121			
tert-Amyl Alcohol	0.0568	0.40	mg/kg wet	0.05000		114	70-130			J
tert-Amyl Methyl Ether	0.108	0.10	mg/kg wet	0.1000		108	70-130			
tert-Butyl Alcohol	0.109	0.20	mg/kg wet	0.1000		109	70-130			J
tert-Butyl Formate	0.119	0.40	mg/kg wet	0.1000		119	70-130			J
tert-Butylbenzene	0.0555	0.0050	mg/kg wet	0.05000		111	67-132			
tert-Butyl Ethyl Ether	0.109	0.10	mg/kg wet	0.1000		109	70-130			
Tetrachloroethylene	0.0532	0.0050	mg/kg wet	0.05000		106	68-130			
Toluene	0.0528	0.0050	mg/kg wet	0.05000		106	71-129			
trans-1,2-Dichloroethylene	0.0524	0.0050	mg/kg wet	0.05000		105	73-132			
trans-1,3-Dichloropropylene	0.0541	0.0050	mg/kg wet	0.05000		108	68-123			
Trichloroethylene	0.0516	0.0050	mg/kg wet	0.05000		103	75-133			
Trichlorofluoromethane	0.0575	0.0050	mg/kg wet	0.05000		115	44-146			
Vinyl acetate	0.0520	0.025	mg/kg wet	0.05000		104	85-161			
Vinyl chloride	0.0447	0.0050	mg/kg wet	0.05000		89	48-147			
Xylenes, total	0.168	0.015	mg/kg wet	0.1500		112	74-126			
Surrogate: 4-Bromofluorobenzene	*0.0494*		*mg/kg wet*	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0487*		*mg/kg wet*	*0.05000*		*97*	*84-123*			
Surrogate: Toluene-d8	*0.0493*		*mg/kg wet*	*0.05000*		*99*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS Dup (P5B0514-BSD1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	0.0490	0.0050	mg/kg wet	0.05000		98	72-115	9	20	
1,1,1-Trichloroethane	0.0466	0.0050	mg/kg wet	0.05000		93	67-131	10	20	
1,1,2,2-Tetrachloroethane	0.0475	0.0050	mg/kg wet	0.05000		95	56-126	11	20	
1,1,2-Trichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-133	9	20	
1,1-Dichloroethane	0.0458	0.0050	mg/kg wet	0.05000		92	74-127	10	20	
1,1-Dichloroethylene	0.0465	0.0050	mg/kg wet	0.05000		93	67-149	11	20	
1,1-Dichloropropylene	0.0488	0.0050	mg/kg wet	0.05000		98	71-130	12	20	
1,2,3-Trichlorobenzene	0.0492	0.0050	mg/kg wet	0.05000		98	68-130	11	20	
1,2,3-Trichloropropane	0.0465	0.0050	mg/kg wet	0.05000		93	60-137	13	20	
1,2,4-Trichlorobenzene	0.0498	0.0050	mg/kg wet	0.05000		100	66-125	10	20	
1,2,4-Trimethylbenzene	0.0508	0.0050	mg/kg wet	0.05000		102	69-129	10	20	
1,2-Dibromoethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-132	9	20	
1,2-Dichlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	72-123	10	20	
1,2-Dichloroethane	0.0449	0.0050	mg/kg wet	0.05000		90	68-128	9	20	
1,2-Dichloropropane	0.0469	0.0050	mg/kg wet	0.05000		94	73-130	9	20	
1,3,5-Trimethylbenzene	0.0509	0.0050	mg/kg wet	0.05000		102	69-128	10	20	
1,3-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	71-120	9	20	
1,3-Dichloropropane	0.0470	0.0050	mg/kg wet	0.05000		94	75-124	9	20	
1,4-Dichlorobenzene	0.0483	0.0050	mg/kg wet	0.05000		97	71-123	10	20	
2,2-Dichloropropane	0.0471	0.0050	mg/kg wet	0.05000		94	50-142	13	20	
2-Chlorotoluene	0.0488	0.0050	mg/kg wet	0.05000		98	67-124	11	20	
4-Chlorotoluene	0.0490	0.0050	mg/kg wet	0.05000		98	71-126	10	20	
4-Isopropyltoluene	0.0502	0.0050	mg/kg wet	0.05000		100	68-129	12	20	
Acetone	0.0845	0.050	mg/kg wet	0.1000		84	29-198	12	20	
Benzene	0.0489	0.0030	mg/kg wet	0.05000		98	74-127	10	20	
Bromobenzene	0.0481	0.0050	mg/kg wet	0.05000		96	73-125	10	20	
Bromochloromethane	0.0467	0.0050	mg/kg wet	0.05000		93	72-134	9	20	
Bromodichloromethane	0.0445	0.0050	mg/kg wet	0.05000		89	75-122	9	20	
Bromoform	0.0440	0.0050	mg/kg wet	0.05000		88	66-135	10	20	
Bromomethane	0.0448	0.010	mg/kg wet	0.05000		90	20-180	19	20	
Carbon Tetrachloride	0.0490	0.0050	mg/kg wet	0.05000		98	64-143	10	20	
Chlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	74-118	10	20	
Chloroethane	0.0419	0.010	mg/kg wet	0.05000		84	33-149	17	20	
Chloroform	0.0430	0.0050	mg/kg wet	0.05000		86	73-127	9	20	
Chloromethane	0.0378	0.0050	mg/kg wet	0.05000		76	45-143	11	20	
cis-1,2-Dichloroethylene	0.0485	0.0050	mg/kg wet	0.05000		97	76-134	9	20	
cis-1,3-Dichloropropylene	0.0486	0.0050	mg/kg wet	0.05000		97	71-125	8	20	
Dibromochloromethane	0.0446	0.0050	mg/kg wet	0.05000		89	73-122	10	20	
Dichlorodifluoromethane	0.0288	0.0050	mg/kg wet	0.05000		58	26-146	12	20	
Ethanol	1.07	0.25	mg/kg wet	1.250		85	70-130	17	20	
Ethylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	74-128	11	20	
Isopropyl Ether	0.0422	0.0050	mg/kg wet	0.05000		84	59-159	8	20	
Isopropylbenzene (Cumene)	0.0512	0.0050	mg/kg wet	0.05000		102	68-126	11	20	
m,p-Xylenes	0.101	0.010	mg/kg wet	0.1000		101	75-124	10	20	
Methyl Butyl Ketone (2-Hexanone)	0.0509	0.050	mg/kg wet	0.05000		102	61-157	12	20	
Methyl Ethyl Ketone (2-Butanone)	0.0455	0.10	mg/kg wet	0.05000		91	63-149	11	20	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0514 - 5035										
LCS Dup (P5B0514-BSD1)			Prepared & Analyzed: 02/27/15							
Methyl Isobutyl Ketone	0.0468	0.050	mg/kg wet	0.05000		94	57-162	13	20	J
Methylene Chloride	0.0437	0.0050	mg/kg wet	0.05000		87	74-129	10	20	
Methyl-tert-Butyl Ether	0.0480	0.010	mg/kg wet	0.05000		96	70-130	8	20	
Naphthalene	0.0496	0.010	mg/kg wet	0.05000		99	57-157	11	20	
n-Butylbenzene	0.0519	0.0050	mg/kg wet	0.05000		104	65-135	12	20	
n-Propylbenzene	0.0504	0.0050	mg/kg wet	0.05000		101	67-130	11	20	
o-Xylene	0.0497	0.0050	mg/kg wet	0.05000		99	74-126	10	20	
sec-Butylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	66-131	12	20	
Styrene	0.0528	0.0050	mg/kg wet	0.05000		106	77-121	10	20	
tert-Amyl Alcohol	0.0508	0.40	mg/kg wet	0.05000		102	70-130	11	20	J
tert-Amyl Methyl Ether	0.0997	0.10	mg/kg wet	0.1000		100	70-130	8	20	J
tert-Butyl Alcohol	0.101	0.20	mg/kg wet	0.1000		101	70-130	8	20	J
tert-Butyl Formate	0.109	0.40	mg/kg wet	0.1000		109	70-130	8	20	J
tert-Butylbenzene	0.0498	0.0050	mg/kg wet	0.05000		100	67-132	11	20	
tert-Butyl Ethyl Ether	0.101	0.10	mg/kg wet	0.1000		101	70-130	8	20	
Tetrachloroethylene	0.0479	0.0050	mg/kg wet	0.05000		96	68-130	10	20	
Toluene	0.0483	0.0050	mg/kg wet	0.05000		97	71-129	9	20	
trans-1,2-Dichloroethylene	0.0478	0.0050	mg/kg wet	0.05000		96	73-132	9	20	
trans-1,3-Dichloropropylene	0.0496	0.0050	mg/kg wet	0.05000		99	68-123	9	20	
Trichloroethylene	0.0466	0.0050	mg/kg wet	0.05000		93	75-133	10	20	
Trichlorofluoromethane	0.0510	0.0050	mg/kg wet	0.05000		102	44-146	12	20	
Vinyl acetate	0.0479	0.025	mg/kg wet	0.05000		96	85-161	8	20	
Vinyl chloride	0.0398	0.0050	mg/kg wet	0.05000		80	48-147	12	20	
Xylenes, total	0.151	0.015	mg/kg wet	0.1500		101	74-126	10	20	
Surrogate: 4-Bromofluorobenzene	*0.0457*		*mg/kg wet*	*0.05000*		*91*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0456*		*mg/kg wet*	*0.05000*		*91*	*84-123*			
Surrogate: Toluene-d8	*0.0462*		*mg/kg wet*	*0.05000*		*92*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
Blank (P5C0014-BLK1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethanol	BRL	0.25	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
Blank (P5C0014-BLK1)				Prepared & Analyzed: 03/02/15						
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Amyl Alcohol	BRL	0.40	mg/kg wet							
tert-Amyl Methyl Ether	BRL	0.10	mg/kg wet							
tert-Butyl Alcohol	BRL	0.20	mg/kg wet							
tert-Butyl Formate	BRL	0.40	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
tert-Butyl Ethyl Ether	BRL	0.10	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0524*		*mg/kg wet*	*0.05000*		*105*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0504*		*mg/kg wet*	*0.05000*		*101*	*84-123*			
Surrogate: Toluene-d8	*0.0509*		*mg/kg wet*	*0.05000*		*102*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
LCS (P5C0014-BS1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	0.0472	0.0050	mg/kg wet	0.05000		94	72-115			
1,1,1-Trichloroethane	0.0493	0.0050	mg/kg wet	0.05000		99	67-131			
1,1,2,2-Tetrachloroethane	0.0479	0.0050	mg/kg wet	0.05000		96	56-126			
1,1,2-Trichloroethane	0.0452	0.0050	mg/kg wet	0.05000		90	70-133			
1,1-Dichloroethane	0.0488	0.0050	mg/kg wet	0.05000		98	74-127			
1,1-Dichloroethylene	0.0522	0.0050	mg/kg wet	0.05000		104	67-149			
1,1-Dichloropropylene	0.0524	0.0050	mg/kg wet	0.05000		105	71-130			
1,2,3-Trichlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	68-130			
1,2,3-Trichloropropane	0.0466	0.0050	mg/kg wet	0.05000		93	60-137			
1,2,4-Trichlorobenzene	0.0478	0.0050	mg/kg wet	0.05000		96	66-125			
1,2,4-Trimethylbenzene	0.0504	0.0050	mg/kg wet	0.05000		101	69-129			
1,2-Dibromoethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-132			
1,2-Dichlorobenzene	0.0464	0.0050	mg/kg wet	0.05000		93	72-123			
1,2-Dichloroethane	0.0447	0.0050	mg/kg wet	0.05000		89	68-128			
1,2-Dichloropropane	0.0466	0.0050	mg/kg wet	0.05000		93	73-130			
1,3,5-Trimethylbenzene	0.0506	0.0050	mg/kg wet	0.05000		101	69-128			
1,3-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	71-120			
1,3-Dichloropropane	0.0458	0.0050	mg/kg wet	0.05000		92	75-124			
1,4-Dichlorobenzene	0.0472	0.0050	mg/kg wet	0.05000		94	71-123			
2,2-Dichloropropane	0.0511	0.0050	mg/kg wet	0.05000		102	50-142			
2-Chlorotoluene	0.0491	0.0050	mg/kg wet	0.05000		98	67-124			
4-Chlorotoluene	0.0484	0.0050	mg/kg wet	0.05000		97	71-126			
4-Isopropyltoluene	0.0505	0.0050	mg/kg wet	0.05000		101	68-129			
Acetone	0.0874	0.050	mg/kg wet	0.1000		87	29-198			
Benzene	0.0506	0.0030	mg/kg wet	0.05000		101	74-127			
Bromobenzene	0.0472	0.0050	mg/kg wet	0.05000		94	73-125			
Bromochloromethane	0.0448	0.0050	mg/kg wet	0.05000		90	72-134			
Bromodichloromethane	0.0444	0.0050	mg/kg wet	0.05000		89	75-122			
Bromoform	0.0432	0.0050	mg/kg wet	0.05000		86	66-135			
Bromomethane	0.0509	0.010	mg/kg wet	0.05000		102	20-180			
Carbon Tetrachloride	0.0513	0.0050	mg/kg wet	0.05000		103	64-143			
Chlorobenzene	0.0471	0.0050	mg/kg wet	0.05000		94	74-118			
Chloroethane	0.0500	0.010	mg/kg wet	0.05000		100	33-149			
Chloroform	0.0438	0.0050	mg/kg wet	0.05000		88	73-127			
Chloromethane	0.0530	0.0050	mg/kg wet	0.05000		106	45-143			
cis-1,2-Dichloroethylene	0.0490	0.0050	mg/kg wet	0.05000		98	76-134			
cis-1,3-Dichloropropylene	0.0487	0.0050	mg/kg wet	0.05000		97	71-125			
Dibromochloromethane	0.0432	0.0050	mg/kg wet	0.05000		86	73-122			
Dichlorodifluoromethane	0.0615	0.0050	mg/kg wet	0.05000		123	26-146			
Ethanol	1.26	0.25	mg/kg wet	1.250		100	70-130			
Ethylbenzene	0.0492	0.0050	mg/kg wet	0.05000		98	74-128			
Isopropyl Ether	0.0433	0.0050	mg/kg wet	0.05000		87	59-159			
Isopropylbenzene (Cumene)	0.0513	0.0050	mg/kg wet	0.05000		103	68-126			
m,p-Xylenes	0.101	0.010	mg/kg wet	0.1000		101	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0537	0.050	mg/kg wet	0.05000		107	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0492	0.10	mg/kg wet	0.05000		98	63-149			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
LCS (P5C0014-BS1)				Prepared & Analyzed: 03/02/15						
Methyl Isobutyl Ketone	0.0500	0.050	mg/kg wet	0.05000		100	57-162			
Methylene Chloride	0.0449	0.0050	mg/kg wet	0.05000		90	74-129			
Methyl-tert-Butyl Ether	0.0492	0.010	mg/kg wet	0.05000		98	70-130			
Naphthalene	0.0483	0.010	mg/kg wet	0.05000		97	57-157			
n-Butylbenzene	0.0525	0.0050	mg/kg wet	0.05000		105	65-135			
n-Propylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	67-130			
o-Xylene	0.0484	0.0050	mg/kg wet	0.05000		97	74-126			
sec-Butylbenzene	0.0504	0.0050	mg/kg wet	0.05000		101	66-131			
Styrene	0.0513	0.0050	mg/kg wet	0.05000		103	77-121			
tert-Amyl Alcohol	0.0542	0.40	mg/kg wet	0.05000		108	70-130			J
tert-Amyl Methyl Ether	0.102	0.10	mg/kg wet	0.1000		102	70-130			
tert-Butyl Alcohol	0.0820	0.20	mg/kg wet	0.1000		82	70-130			J
tert-Butyl Formate	0.159	0.40	mg/kg wet	0.1000		159	70-130			CCV, LH, J
tert-Butylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	67-132			
tert-Butyl Ethyl Ether	0.102	0.10	mg/kg wet	0.1000		102	70-130			
Tetrachloroethylene	0.0499	0.0050	mg/kg wet	0.05000		100	68-130			
Toluene	0.0491	0.0050	mg/kg wet	0.05000		98	71-129			
trans-1,2-Dichloroethylene	0.0508	0.0050	mg/kg wet	0.05000		102	73-132			
trans-1,3-Dichloropropylene	0.0489	0.0050	mg/kg wet	0.05000		98	68-123			
Trichloroethylene	0.0484	0.0050	mg/kg wet	0.05000		97	75-133			
Trichlorofluoromethane	0.0564	0.0050	mg/kg wet	0.05000		113	44-146			
Vinyl acetate	0.0490	0.025	mg/kg wet	0.05000		98	85-161			
Vinyl chloride	0.0534	0.0050	mg/kg wet	0.05000		107	48-147			
Xylenes, total	0.150	0.015	mg/kg wet	0.1500		100	74-126			
Surrogate: 4-Bromofluorobenzene	*0.0479*		*mg/kg wet*	*0.05000*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0478*		*mg/kg wet*	*0.05000*		*96*	*84-123*			
Surrogate: Toluene-d8	*0.0478*		*mg/kg wet*	*0.05000*		*96*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
LCS Dup (P5C0014-BSD1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	0.0479	0.0050	mg/kg wet	0.05000		96	72-115	1	20	
1,1,1-Trichloroethane	0.0497	0.0050	mg/kg wet	0.05000		99	67-131	0.8	20	
1,1,2,2-Tetrachloroethane	0.0493	0.0050	mg/kg wet	0.05000		99	56-126	3	20	
1,1,2-Trichloroethane	0.0449	0.0050	mg/kg wet	0.05000		90	70-133	0.6	20	
1,1-Dichloroethane	0.0487	0.0050	mg/kg wet	0.05000		97	74-127	0.2	20	
1,1-Dichloroethylene	0.0526	0.0050	mg/kg wet	0.05000		105	67-149	0.8	20	
1,1-Dichloropropylene	0.0528	0.0050	mg/kg wet	0.05000		106	71-130	0.9	20	
1,2,3-Trichlorobenzene	0.0483	0.0050	mg/kg wet	0.05000		97	68-130	2	20	
1,2,3-Trichloropropane	0.0480	0.0050	mg/kg wet	0.05000		96	60-137	3	20	
1,2,4-Trichlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	66-125	2	20	
1,2,4-Trimethylbenzene	0.0521	0.0050	mg/kg wet	0.05000		104	69-129	3	20	
1,2-Dibromoethane	0.0486	0.0050	mg/kg wet	0.05000		97	70-132	2	20	
1,2-Dichlorobenzene	0.0476	0.0050	mg/kg wet	0.05000		95	72-123	3	20	
1,2-Dichloroethane	0.0447	0.0050	mg/kg wet	0.05000		89	68-128	0.09	20	
1,2-Dichloropropane	0.0469	0.0050	mg/kg wet	0.05000		94	73-130	0.7	20	
1,3,5-Trimethylbenzene	0.0518	0.0050	mg/kg wet	0.05000		104	69-128	2	20	
1,3-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	71-120	2	20	
1,3-Dichloropropane	0.0462	0.0050	mg/kg wet	0.05000		92	75-124	0.7	20	
1,4-Dichlorobenzene	0.0483	0.0050	mg/kg wet	0.05000		97	71-123	2	20	
2,2-Dichloropropane	0.0507	0.0050	mg/kg wet	0.05000		101	50-142	0.8	20	
2-Chlorotoluene	0.0501	0.0050	mg/kg wet	0.05000		100	67-124	2	20	
4-Chlorotoluene	0.0499	0.0050	mg/kg wet	0.05000		100	71-126	3	20	
4-Isopropyltoluene	0.0516	0.0050	mg/kg wet	0.05000		103	68-129	2	20	
Acetone	0.0887	0.050	mg/kg wet	0.1000		89	29-198	2	20	
Benzene	0.0511	0.0030	mg/kg wet	0.05000		102	74-127	1	20	
Bromobenzene	0.0485	0.0050	mg/kg wet	0.05000		97	73-125	3	20	
Bromochloromethane	0.0467	0.0050	mg/kg wet	0.05000		93	72-134	4	20	
Bromodichloromethane	0.0441	0.0050	mg/kg wet	0.05000		88	75-122	0.9	20	
Bromoform	0.0435	0.0050	mg/kg wet	0.05000		87	66-135	0.7	20	
Bromomethane	0.0537	0.010	mg/kg wet	0.05000		107	20-180	5	20	
Carbon Tetrachloride	0.0522	0.0050	mg/kg wet	0.05000		104	64-143	2	20	
Chlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	74-118	2	20	
Chloroethane	0.0500	0.010	mg/kg wet	0.05000		100	33-149	0.1	20	
Chloroform	0.0440	0.0050	mg/kg wet	0.05000		88	73-127	0.5	20	
Chloromethane	0.0536	0.0050	mg/kg wet	0.05000		107	45-143	1	20	
cis-1,2-Dichloroethylene	0.0495	0.0050	mg/kg wet	0.05000		99	76-134	0.9	20	
cis-1,3-Dichloropropylene	0.0487	0.0050	mg/kg wet	0.05000		97	71-125	0.04	20	
Dibromochloromethane	0.0440	0.0050	mg/kg wet	0.05000		88	73-122	2	20	
Dichlorodifluoromethane	0.0606	0.0050	mg/kg wet	0.05000		121	26-146	1	20	
Ethanol	1.22	0.25	mg/kg wet	1.250		97	70-130	3	20	
Ethylbenzene	0.0501	0.0050	mg/kg wet	0.05000		100	74-128	2	20	
Isopropyl Ether	0.0440	0.0050	mg/kg wet	0.05000		88	59-159	1	20	
Isopropylbenzene (Cumene)	0.0527	0.0050	mg/kg wet	0.05000		105	68-126	3	20	
m,p-Xylenes	0.103	0.010	mg/kg wet	0.1000		103	75-124	1	20	
Methyl Butyl Ketone (2-Hexanone)	0.0545	0.050	mg/kg wet	0.05000		109	61-157	1	20	
Methyl Ethyl Ketone (2-Butanone)	0.0491	0.10	mg/kg wet	0.05000		98	63-149	0.2	20	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
LCS Dup (P5C0014-BSD1)				Prepared & Analyzed: 03/02/15						
Methyl Isobutyl Ketone	0.0508	0.050	mg/kg wet	0.05000		102	57-162	2	20	
Methylene Chloride	0.0455	0.0050	mg/kg wet	0.05000		91	74-129	1	20	
Methyl-tert-Butyl Ether	0.0491	0.010	mg/kg wet	0.05000		98	70-130	0.1	20	
Naphthalene	0.0492	0.010	mg/kg wet	0.05000		98	57-157	2	20	
n-Butylbenzene	0.0537	0.0050	mg/kg wet	0.05000		107	65-135	2	20	
n-Propylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	67-130	2	20	
o-Xylene	0.0490	0.0050	mg/kg wet	0.05000		98	74-126	1	20	
sec-Butylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	66-131	2	20	
Styrene	0.0521	0.0050	mg/kg wet	0.05000		104	77-121	2	20	
tert-Amyl Alcohol	0.0496	0.40	mg/kg wet	0.05000		99	70-130	9	20	J
tert-Amyl Methyl Ether	0.102	0.10	mg/kg wet	0.1000		102	70-130	0.3	20	
tert-Butyl Alcohol	0.0796	0.20	mg/kg wet	0.1000		80	70-130	3	20	J
tert-Butyl Formate	0.159	0.40	mg/kg wet	0.1000		159	70-130	0.05	20	CCV, LH, J
tert-Butylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	67-132	2	20	
tert-Butyl Ethyl Ether	0.103	0.10	mg/kg wet	0.1000		103	70-130	0.5	20	
Tetrachloroethylene	0.0509	0.0050	mg/kg wet	0.05000		102	68-130	2	20	
Toluene	0.0494	0.0050	mg/kg wet	0.05000		99	71-129	0.6	20	
trans-1,2-Dichloroethylene	0.0504	0.0050	mg/kg wet	0.05000		101	73-132	0.8	20	
trans-1,3-Dichloropropylene	0.0494	0.0050	mg/kg wet	0.05000		99	68-123	1	20	
Trichloroethylene	0.0486	0.0050	mg/kg wet	0.05000		97	75-133	0.4	20	
Trichlorofluoromethane	0.0564	0.0050	mg/kg wet	0.05000		113	44-146	0.02	20	
Vinyl acetate	0.0482	0.025	mg/kg wet	0.05000		96	85-161	2	20	
Vinyl chloride	0.0531	0.0050	mg/kg wet	0.05000		106	48-147	0.5	20	
Xylenes, total	0.152	0.015	mg/kg wet	0.1500		101	74-126	1	20	
Surrogate: 4-Bromofluorobenzene	*0.0496*		*mg/kg wet*	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0477*		*mg/kg wet*	*0.05000*		*95*	*84-123*			
Surrogate: Toluene-d8	*0.0483*		*mg/kg wet*	*0.05000*		*97*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0031 - 5030B										
Blank (P5C0031-BLK1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	5.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0031 - 5030B										
Blank (P5C0031-BLK1)				Prepared & Analyzed: 03/02/15						
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*50.1*		*ug/L*	*50.00*		*100*	*80-124*			
Surrogate: Dibromofluoromethane	*55.1*		*ug/L*	*50.00*		*110*	*75-129*			
Surrogate: Toluene-d8	*43.4*		*ug/L*	*50.00*		*87*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0031 - 5030B										
LCS (P5C0031-BS1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	17.7	0.50	ug/L	20.00		89	79-134			
1,1,1-Trichloroethane	19.1	0.50	ug/L	20.00		95	75-136			
1,1,2,2-Tetrachloroethane	19.0	0.50	ug/L	20.00		95	62-127			
1,1,2-Trichloroethane	20.2	0.50	ug/L	20.00		101	70-140			
1,1-Dichloroethane	18.0	0.50	ug/L	20.00		90	78-130			
1,1-Dichloroethylene	21.2	0.50	ug/L	20.00		106	70-154			
1,1-Dichloropropylene	19.5	0.50	ug/L	20.00		98	71-136			
1,2,3-Trichlorobenzene	23.2	2.0	ug/L	20.00		116	58-144			
1,2,3-Trichloropropane	19.4	1.0	ug/L	20.00		97	71-127			
1,2,4-Trichlorobenzene	21.6	1.0	ug/L	20.00		108	66-139			
1,2,4-Trimethylbenzene	20.4	0.50	ug/L	20.00		102	75-133			
1,2-Dibromo-3-chloropropane	19.3	2.0	ug/L	20.00		96	63-134			
1,2-Dibromoethane	18.4	0.50	ug/L	20.00		92	77-135			
1,2-Dichlorobenzene	19.7	0.50	ug/L	20.00		99	78-128			
1,2-Dichloroethane	17.6	0.50	ug/L	20.00		88	68-131			
1,2-Dichloropropane	19.7	0.50	ug/L	20.00		98	77-130			
1,3,5-Trimethylbenzene	20.2	0.50	ug/L	20.00		101	75-131			
1,3-Dichlorobenzene	19.7	0.50	ug/L	20.00		99	77-125			
1,3-Dichloropropane	18.0	0.50	ug/L	20.00		90	76-132			
1,4-Dichlorobenzene	19.4	0.50	ug/L	20.00		97	75-126			
2,2-Dichloropropane	16.8	2.0	ug/L	20.00		84	29-149			
2-Chloroethyl Vinyl Ether	20.7	5.0	ug/L	20.00		103	34-144			
2-Chlorotoluene	19.5	0.50	ug/L	20.00		98	74-126			
4-Chlorotoluene	18.7	0.50	ug/L	20.00		94	78-129			
4-Isopropyltoluene	17.9	0.50	ug/L	20.00		90	69-132			
Acetone	35.5	5.0	ug/L	40.00		89	40-166			
Acrolein	41.2	20	ug/L	40.00		103	70-130			
Acrylonitrile	36.9	20	ug/L	40.00		92	81-127			
Benzene	19.4	0.50	ug/L	20.00		97	77-128			
Bromobenzene	20.0	0.50	ug/L	20.00		100	78-129			
Bromochloromethane	18.6	0.50	ug/L	20.00		93	78-135			
Bromodichloromethane	18.6	0.50	ug/L	20.00		93	76-138			
Bromoform	17.4	1.0	ug/L	20.00		87	71-135			
Bromomethane	25.5	1.0	ug/L	20.00		128	41-168			
Carbon disulfide	22.8	5.0	ug/L	20.00		114	59-135			
Carbon Tetrachloride	19.3	0.50	ug/L	20.00		96	72-142			
Chlorobenzene	18.7	0.50	ug/L	20.00		94	78-119			
Chloroethane	21.4	0.50	ug/L	20.00		107	57-142			
Chloroform	17.6	0.50	ug/L	20.00		88	77-130			
Chloromethane	19.2	0.50	ug/L	20.00		96	47-145			
cis-1,2-Dichloroethylene	19.3	0.50	ug/L	20.00		96	76-141			
cis-1,3-Dichloropropylene	19.4	0.50	ug/L	20.00		97	65-140			
Dibromochloromethane	17.0	0.50	ug/L	20.00		85	75-134			
Dibromomethane	19.2	0.50	ug/L	20.00		96	76-138			
Dichlorodifluoromethane	18.5	1.0	ug/L	20.00		93	28-163			
Ethylbenzene	18.4	0.50	ug/L	20.00		92	80-127			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0031 - 5030B										
LCS (P5C0031-BS1)				Prepared & Analyzed: 03/02/15						
Hexachlorobutadiene	19.2	2.0	ug/L	20.00		96	61-134			
Isopropyl Ether	16.7	0.50	ug/L	20.00		83	60-154			
Isopropylbenzene (Cumene)	20.2	0.50	ug/L	20.00		101	70-130			
m,p-Xylenes	39.6	1.0	ug/L	40.00		99	77-133			
Methyl Butyl Ketone (2-Hexanone)	16.3	5.0	ug/L	20.00		82	64-137			
Methyl Ethyl Ketone (2-Butanone)	17.7	5.0	ug/L	20.00		88	71-134			
Methyl Isobutyl Ketone	17.7	5.0	ug/L	20.00		88	69-134			
Methylene Chloride	18.4	1.0	ug/L	20.00		92	73-131			
Methyl-tert-Butyl Ether	18.9	0.50	ug/L	20.00		95	68-135			
Naphthalene	22.3	1.0	ug/L	20.00		112	64-136			
n-Butylbenzene	18.1	1.0	ug/L	20.00		91	68-134			
n-Propylbenzene	20.5	0.50	ug/L	20.00		102	72-132			
o-Xylene	19.0	0.50	ug/L	20.00		95	78-128			
sec-Butylbenzene	17.8	0.50	ug/L	20.00		89	71-131			
Styrene	19.4	0.50	ug/L	20.00		97	78-129			
tert-Butylbenzene	20.0	0.50	ug/L	20.00		100	70-132			
Tetrachloroethylene	18.8	0.50	ug/L	20.00		94	80-129			
Toluene	18.3	0.50	ug/L	20.00		92	76-131			
trans-1,2-Dichloroethylene	18.2	0.50	ug/L	20.00		91	76-135			
trans-1,3-Dichloropropylene	18.8	0.50	ug/L	20.00		94	67-140			
Trichloroethylene	19.7	0.50	ug/L	20.00		99	77-133			
Trichlorofluoromethane	21.2	0.50	ug/L	20.00		106	62-148			
Vinyl acetate	17.3	2.0	ug/L	20.00		87	34-167			
Vinyl chloride	20.5	0.50	ug/L	20.00		102	57-141			
Surrogate: 4-Bromofluorobenzene	*50.5*		*ug/L*	*50.00*		*101*	*80-124*			
Surrogate: Dibromofluoromethane	*52.1*		*ug/L*	*50.00*		*104*	*75-129*			
Surrogate: Toluene-d8	*46.5*		*ug/L*	*50.00*		*93*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0031 - 5030B										
LCS Dup (P5C0031-BSD1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	18.0	0.50	ug/L	20.00		90	79-134	1	20	
1,1,1-Trichloroethane	17.8	0.50	ug/L	20.00		89	75-136	7	20	
1,1,2,2-Tetrachloroethane	17.8	0.50	ug/L	20.00		89	62-127	6	20	
1,1,2-Trichloroethane	18.2	0.50	ug/L	20.00		91	70-140	10	20	
1,1-Dichloroethane	16.7	0.50	ug/L	20.00		83	78-130	8	20	
1,1-Dichloroethylene	18.2	0.50	ug/L	20.00		91	70-154	15	20	
1,1-Dichloropropylene	18.3	0.50	ug/L	20.00		92	71-136	6	20	
1,2,3-Trichlorobenzene	21.7	2.0	ug/L	20.00		108	58-144	7	20	
1,2,3-Trichloropropane	19.0	1.0	ug/L	20.00		95	71-127	2	20	
1,2,4-Trichlorobenzene	20.6	1.0	ug/L	20.00		103	66-139	5	20	
1,2,4-Trimethylbenzene	19.6	0.50	ug/L	20.00		98	75-133	4	20	
1,2-Dibromo-3-chloropropane	19.7	2.0	ug/L	20.00		98	63-134	2	20	
1,2-Dibromoethane	19.3	0.50	ug/L	20.00		97	77-135	5	20	
1,2-Dichlorobenzene	19.2	0.50	ug/L	20.00		96	78-128	3	20	
1,2-Dichloroethane	17.2	0.50	ug/L	20.00		86	68-131	2	20	
1,2-Dichloropropane	17.2	0.50	ug/L	20.00		86	77-130	13	20	
1,3,5-Trimethylbenzene	19.1	0.50	ug/L	20.00		96	75-131	5	20	
1,3-Dichlorobenzene	19.2	0.50	ug/L	20.00		96	77-125	3	20	
1,3-Dichloropropane	19.2	0.50	ug/L	20.00		96	76-132	6	20	
1,4-Dichlorobenzene	19.1	0.50	ug/L	20.00		95	75-126	1	20	
2,2-Dichloropropane	14.3	2.0	ug/L	20.00		72	29-149	16	20	
2-Chloroethyl Vinyl Ether	20.0	5.0	ug/L	20.00		100	34-144	3	20	
2-Chlorotoluene	19.5	0.50	ug/L	20.00		97	74-126	0.4	20	
4-Chlorotoluene	18.8	0.50	ug/L	20.00		94	78-129	0.5	20	
4-Isopropyltoluene	17.3	0.50	ug/L	20.00		87	69-132	3	20	
Acetone	37.9	5.0	ug/L	40.00		95	40-166	6	20	
Acrolein	37.1	20	ug/L	40.00		93	70-130	11	20	
Acrylonitrile	35.1	20	ug/L	40.00		88	81-127	5	20	
Benzene	17.7	0.50	ug/L	20.00		89	77-128	9	20	
Bromobenzene	18.6	0.50	ug/L	20.00		93	78-129	7	20	
Bromochloromethane	17.0	0.50	ug/L	20.00		85	78-135	9	20	
Bromodichloromethane	16.6	0.50	ug/L	20.00		83	76-138	11	20	
Bromoform	18.3	1.0	ug/L	20.00		91	71-135	5	20	
Bromomethane	21.7	1.0	ug/L	20.00		108	41-168	16	20	
Carbon disulfide	19.8	5.0	ug/L	20.00		99	59-135	14	20	
Carbon Tetrachloride	17.1	0.50	ug/L	20.00		86	72-142	12	20	
Chlorobenzene	18.8	0.50	ug/L	20.00		94	78-119	0.3	20	
Chloroethane	18.4	0.50	ug/L	20.00		92	57-142	15	20	
Chloroform	15.7	0.50	ug/L	20.00		78	77-130	11	20	
Chloromethane	17.2	0.50	ug/L	20.00		86	47-145	11	20	
cis-1,2-Dichloroethylene	16.9	0.50	ug/L	20.00		84	76-141	13	20	
cis-1,3-Dichloropropylene	18.4	0.50	ug/L	20.00		92	65-140	6	20	
Dibromochloromethane	18.3	0.50	ug/L	20.00		91	75-134	8	20	
Dibromomethane	17.2	0.50	ug/L	20.00		86	76-138	11	20	
Dichlorodifluoromethane	16.3	1.0	ug/L	20.00		82	28-163	13	20	
Ethylbenzene	18.7	0.50	ug/L	20.00		94	80-127	2	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0031 - 5030B										
LCS Dup (P5C0031-BSD1)				Prepared & Analyzed: 03/02/15						
Hexachlorobutadiene	19.3	2.0	ug/L	20.00		97	61-134	0.4	20	
Isopropyl Ether	14.6	0.50	ug/L	20.00		73	60-154	13	20	
Isopropylbenzene (Cumene)	19.5	0.50	ug/L	20.00		98	70-130	3	20	
m,p-Xylenes	40.3	1.0	ug/L	40.00		101	77-133	2	20	
Methyl Butyl Ketone (2-Hexanone)	18.9	5.0	ug/L	20.00		95	64-137	15	20	
Methyl Ethyl Ketone (2-Butanone)	16.0	5.0	ug/L	20.00		80	71-134	10	20	
Methyl Isobutyl Ketone	17.1	5.0	ug/L	20.00		85	69-134	3	20	
Methylene Chloride	18.0	1.0	ug/L	20.00		90	73-131	2	20	
Methyl-tert-Butyl Ether	17.3	0.50	ug/L	20.00		86	68-135	9	20	
Naphthalene	22.1	1.0	ug/L	20.00		110	64-136	0.9	20	
n-Butylbenzene	17.4	1.0	ug/L	20.00		87	68-134	4	20	
n-Propylbenzene	18.8	0.50	ug/L	20.00		94	72-132	8	20	
o-Xylene	18.9	0.50	ug/L	20.00		95	78-128	0.4	20	
sec-Butylbenzene	16.2	0.50	ug/L	20.00		81	71-131	9	20	
Styrene	19.4	0.50	ug/L	20.00		97	78-129	0.3	20	
tert-Butylbenzene	18.7	0.50	ug/L	20.00		93	70-132	7	20	
Tetrachloroethylene	19.8	0.50	ug/L	20.00		99	80-129	5	20	
Toluene	18.0	0.50	ug/L	20.00		90	76-131	2	20	
trans-1,2-Dichloroethylene	17.2	0.50	ug/L	20.00		86	76-135	6	20	
trans-1,3-Dichloropropylene	17.7	0.50	ug/L	20.00		88	67-140	6	20	
Trichloroethylene	18.5	0.50	ug/L	20.00		93	77-133	6	20	
Trichlorofluoromethane	19.2	0.50	ug/L	20.00		96	62-148	10	20	
Vinyl acetate	14.1	2.0	ug/L	20.00		70	34-167	21	20	D
Vinyl chloride	18.2	0.50	ug/L	20.00		91	57-141	12	20	
Surrogate: 4-Bromofluorobenzene	*51.5*		*ug/L*	*50.00*		*103*	*80-124*			
Surrogate: Dibromofluoromethane	*50.0*		*ug/L*	*50.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*54.8*		*ug/L*	*50.00*		*110*	*77-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
Blank (P5C0033-BLK1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
Blank (P5C0033-BLK1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.80*		*mg/kg wet*	*3.332*		*84*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.51*		*mg/kg wet*	*1.666*		*91*	*44-115*			
Surrogate: 2-Fluorophenol	*3.02*		*mg/kg wet*	*3.332*		*91*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.33*		*mg/kg wet*	*1.666*		*80*	*37-122*			
Surrogate: Phenol-d5	*2.78*		*mg/kg wet*	*3.332*		*83*	*34-121*			
Surrogate: Terphenyl-d14	*1.69*		*mg/kg wet*	*1.666*		*101*	*54-127*			
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	1.45	0.33	mg/kg wet	1.664		87	34-118			
1,2-Dichlorobenzene	1.34	0.33	mg/kg wet	1.664		81	33-117			
1,3-Dichlorobenzene	1.32	0.33	mg/kg wet	1.664		79	30-115			
1,4-Dichlorobenzene	1.25	0.33	mg/kg wet	1.664		75	31-115			
1-Methylnaphthalene	1.45	0.33	mg/kg wet	1.664		87	40-119			
2,4,6-Trichlorophenol	1.83	0.33	mg/kg wet	1.664		110	39-126			
2,4-Dichlorophenol	1.70	0.33	mg/kg wet	1.664		102	40-122			
2,4-Dimethylphenol	1.70	0.33	mg/kg wet	1.664		102	30-127			
2,4-Dinitrophenol	1.09	0.33	mg/kg wet	1.664		66	27-129			
2,4-Dinitrotoluene	1.78	0.33	mg/kg wet	1.664		107	48-126			
2,6-Dinitrotoluene	1.79	0.33	mg/kg wet	1.664		108	46-124			
2-Chloronaphthalene	2.15	0.33	mg/kg wet	1.664		129	41-114			LH
2-Chlorophenol	1.53	0.33	mg/kg wet	1.664		92	34-121			
2-Methylnaphthalene	1.52	0.33	mg/kg wet	1.664		92	38-122			
2-Methylphenol	1.58	0.33	mg/kg wet	1.664		95	32-122			
2-Nitrophenol	1.68	0.33	mg/kg wet	1.664		101	36-123			
3,3'-Dichlorobenzidine	1.41	0.33	mg/kg wet	1.664		84	22-121			
3/4-Methylphenol	1.59	0.33	mg/kg wet	1.664		96	34-119			
4,6-Dinitro-2-methylphenol	1.44	0.33	mg/kg wet	1.664		87	29-132			
4-Bromophenyl phenyl ether	1.53	0.33	mg/kg wet	1.664		92	46-124			
4-Chloro-3-methylphenol	1.74	0.33	mg/kg wet	1.664		105	45-122			
4-Chloroaniline	1.56	0.33	mg/kg wet	1.664		94	17-106			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
4-Chlorophenyl phenyl ether	1.53	0.33	mg/kg wet	1.664		92	45-121			
4-Nitrophenol	1.74	0.33	mg/kg wet	1.664		104	30-132			
Acenaphthene	1.57	0.33	mg/kg wet	1.664		94	40-123			
Acenaphthylene	1.60	0.33	mg/kg wet	1.664		96	32-132			
Anthracene	1.58	0.33	mg/kg wet	1.664		95	47-123			
Azobenzene	1.88	0.33	mg/kg wet	1.664		113	39-125			
Benzo(a)anthracene	1.53	0.33	mg/kg wet	1.664		92	49-126			
Benzo(a)pyrene	1.24	0.33	mg/kg wet	1.664		75	45-129			
Benzo(b)fluoranthene	1.26	0.33	mg/kg wet	1.664		76	45-132			
Benzo(g,h,i)perylene	1.27	0.33	mg/kg wet	1.664		76	43-134			
Benzo(k)fluoranthene	1.24	0.33	mg/kg wet	1.664		74	47-132			
Benzoic Acid	1.56	0.33	mg/kg wet	1.664		93	10-83			LH
Benzyl alcohol	1.39	0.33	mg/kg wet	1.664		83	29-122			
bis(2-Chloroethoxy)methane	1.52	0.33	mg/kg wet	1.664		91	36-121			
Bis(2-Chloroethyl)ether	1.34	0.33	mg/kg wet	1.664		81	31-120			
Bis(2-chloroisopropyl)ether	1.30	0.33	mg/kg wet	1.664		78	33-131			
Bis(2-Ethylhexyl)phthalate	1.57	0.33	mg/kg wet	1.664		94	51-133			
Butyl benzyl phthalate	1.55	0.33	mg/kg wet	1.664		93	48-132			
Chrysene	1.62	0.33	mg/kg wet	1.664		98	50-124			
Dibenzo(a,h)anthracene	1.26	0.33	mg/kg wet	1.664		76	45-134			
Dibenzofuran	1.53	0.33	mg/kg wet	1.664		92	44-120			
Diethyl phthalate	1.59	0.33	mg/kg wet	1.664		95	50-124			
Dimethyl phthalate	1.60	0.33	mg/kg wet	1.664		96	48-124			
Di-n-butyl phthalate	1.58	0.33	mg/kg wet	1.664		95	51-128			
Di-n-octyl phthalate	1.30	0.33	mg/kg wet	1.664		78	45-140			
Fluoranthene	1.54	0.33	mg/kg wet	1.664		92	50-127			
Fluorene	1.60	0.33	mg/kg wet	1.664		96	43-125			
Hexachlorobenzene	1.57	0.33	mg/kg wet	1.664		94	45-122			
Hexachlorobutadiene	1.45	0.33	mg/kg wet	1.664		87	32-123			
Hexachlorocyclopentadiene	1.50	0.33	mg/kg wet	1.664		90	32-117			
Hexachloroethane	1.31	0.33	mg/kg wet	1.664		79	28-117			
Indeno(1,2,3-cd)pyrene	1.31	0.33	mg/kg wet	1.664		79	45-133			
Isophorone	1.69	0.33	mg/kg wet	1.664		102	30-122			
Naphthalene	1.47	0.33	mg/kg wet	1.664		88	35-123			
Nitrobenzene	1.63	0.33	mg/kg wet	1.664		98	34-122			
N-Nitroso-di-n-propylamine	1.40	0.33	mg/kg wet	1.664		84	36-120			
N-Nitrosodiphenylamine	1.62	0.33	mg/kg wet	1.664		97	38-127			
Pentachlorophenol	1.55	0.33	mg/kg wet	1.664		93	25-133			
Phenanthrene	1.56	0.33	mg/kg wet	1.664		94	50-121			
Phenol	1.61	0.33	mg/kg wet	1.664		96	34-121			
Pyrene	1.59	0.33	mg/kg wet	1.664		95	47-127			
Surrogate: 2,4,6-Tribromophenol	*3.17*		*mg/kg wet*	*3.329*		*95*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.69*		*mg/kg wet*	*1.664*		*102*	*44-115*			
Surrogate: 2-Fluorophenol	*3.25*		*mg/kg wet*	*3.329*		*98*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.56*		*mg/kg wet*	*1.664*		*94*	*37-122*			
Surrogate: Phenol-d5	*3.10*		*mg/kg wet*	*3.329*		*93*	*34-121*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Surrogate: Terphenyl-d14	*1.77*		*mg/kg wet*	*1.664*		*106*	*54-127*			
LCS Dup (P5C0033-BSD1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	1.40	0.33	mg/kg wet	1.665		84	34-118	3	20	
1,2-Dichlorobenzene	1.37	0.33	mg/kg wet	1.665		82	33-117	2	20	
1,3-Dichlorobenzene	1.35	0.33	mg/kg wet	1.665		81	30-115	3	20	
1,4-Dichlorobenzene	1.32	0.33	mg/kg wet	1.665		79	31-115	5	20	
1-Methylnaphthalene	1.40	0.33	mg/kg wet	1.665		84	40-119	4	20	
2,4,6-Trichlorophenol	1.73	0.33	mg/kg wet	1.665		104	39-126	5	20	
2,4-Dichlorophenol	1.67	0.33	mg/kg wet	1.665		100	40-122	2	20	
2,4-Dimethylphenol	1.62	0.33	mg/kg wet	1.665		98	30-127	4	20	
2,4-Dinitrophenol	1.31	0.33	mg/kg wet	1.665		79	27-129	18	20	
2,4-Dinitrotoluene	1.76	0.33	mg/kg wet	1.665		105	48-126	2	20	
2,6-Dinitrotoluene	1.81	0.33	mg/kg wet	1.665		109	46-124	1	20	
2-Chloronaphthalene	2.17	0.33	mg/kg wet	1.665		130	41-114	1	20	LH
2-Chlorophenol	1.56	0.33	mg/kg wet	1.665		94	34-121	2	20	
2-Methylnaphthalene	1.46	0.33	mg/kg wet	1.665		88	38-122	4	20	
2-Methylphenol	1.58	0.33	mg/kg wet	1.665		95	32-122	0.07	20	
2-Nitrophenol	1.57	0.33	mg/kg wet	1.665		94	36-123	7	20	
3,3'-Dichlorobenzidine	1.37	0.33	mg/kg wet	1.665		82	22-121	3	20	
3/4-Methylphenol	1.66	0.33	mg/kg wet	1.665		100	34-119	4	20	
4,6-Dinitro-2-methylphenol	1.64	0.33	mg/kg wet	1.665		98	29-132	13	20	
4-Bromophenyl phenyl ether	1.49	0.33	mg/kg wet	1.665		89	46-124	2	20	
4-Chloro-3-methylphenol	1.67	0.33	mg/kg wet	1.665		100	45-122	4	20	
4-Chloroaniline	1.50	0.33	mg/kg wet	1.665		90	17-106	4	20	
4-Chlorophenyl phenyl ether	1.49	0.33	mg/kg wet	1.665		89	45-121	3	20	
4-Nitrophenol	1.48	0.33	mg/kg wet	1.665		89	30-132	16	20	
Acenaphthene	1.54	0.33	mg/kg wet	1.665		92	40-123	2	20	
Acenaphthylene	1.52	0.33	mg/kg wet	1.665		91	32-132	5	20	
Anthracene	1.56	0.33	mg/kg wet	1.665		94	47-123	1	20	
Azobenzene	1.81	0.33	mg/kg wet	1.665		109	39-125	3	20	
Benzo(a)anthracene	1.51	0.33	mg/kg wet	1.665		90	49-126	2	20	
Benzo(a)pyrene	1.23	0.33	mg/kg wet	1.665		74	45-129	1	20	
Benzo(b)fluoranthene	1.26	0.33	mg/kg wet	1.665		76	45-132	0.2	20	
Benzo(g,h,i)perylene	1.27	0.33	mg/kg wet	1.665		76	43-134	0.3	20	
Benzo(k)fluoranthene	1.24	0.33	mg/kg wet	1.665		74	47-132	0.07	20	
Benzoic Acid	1.51	0.33	mg/kg wet	1.665		91	10-83	3	20	LH
Benzyl alcohol	1.39	0.33	mg/kg wet	1.665		84	29-122	0.5	20	
bis(2-Chloroethoxy)methane	1.44	0.33	mg/kg wet	1.665		86	36-121	5	20	
Bis(2-Chloroethyl)ether	1.41	0.33	mg/kg wet	1.665		85	31-120	5	20	
Bis(2-chloroisopropyl)ether	1.32	0.33	mg/kg wet	1.665		79	33-131	1	20	
Bis(2-Ethylhexyl)phthalate	1.56	0.33	mg/kg wet	1.665		94	51-133	0.6	20	
Butyl benzyl phthalate	1.56	0.33	mg/kg wet	1.665		94	48-132	0.6	20	
Chrysene	1.57	0.33	mg/kg wet	1.665		95	50-124	3	20	
Dibenzo(a,h)anthracene	1.23	0.33	mg/kg wet	1.665		74	45-134	3	20	
Dibenzofuran	1.47	0.33	mg/kg wet	1.665		88	44-120	4	20	
Diethyl phthalate	1.55	0.33	mg/kg wet	1.665		93	50-124	3	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS Dup (P5C0033-BSD1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Dimethyl phthalate	1.54	0.33	mg/kg wet	1.665		92	48-124	4	20	
Di-n-butyl phthalate	1.54	0.33	mg/kg wet	1.665		93	51-128	2	20	
Di-n-octyl phthalate	1.26	0.33	mg/kg wet	1.665		76	45-140	3	20	
Fluoranthene	1.51	0.33	mg/kg wet	1.665		90	50-127	2	20	
Fluorene	1.54	0.33	mg/kg wet	1.665		93	43-125	4	20	
Hexachlorobenzene	1.61	0.33	mg/kg wet	1.665		97	45-122	2	20	
Hexachlorobutadiene	1.35	0.33	mg/kg wet	1.665		81	32-123	7	20	
Hexachlorocyclopentadiene	1.39	0.33	mg/kg wet	1.665		84	32-117	8	20	
Hexachloroethane	1.34	0.33	mg/kg wet	1.665		80	28-117	2	20	
Indeno(1,2,3-cd)pyrene	1.29	0.33	mg/kg wet	1.665		77	45-133	2	20	
Isophorone	1.60	0.33	mg/kg wet	1.665		96	30-122	6	20	
Naphthalene	1.42	0.33	mg/kg wet	1.665		85	35-123	4	20	
Nitrobenzene	1.50	0.33	mg/kg wet	1.665		90	34-122	8	20	
N-Nitroso-di-n-propylamine	1.46	0.33	mg/kg wet	1.665		88	36-120	4	20	
N-Nitrosodiphenylamine	1.58	0.33	mg/kg wet	1.665		95	38-127	2	20	
Pentachlorophenol	1.59	0.33	mg/kg wet	1.665		96	25-133	3	20	
Phenanthrene	1.53	0.33	mg/kg wet	1.665		92	50-121	2	20	
Phenol	1.65	0.33	mg/kg wet	1.665		99	34-121	3	20	
Pyrene	1.56	0.33	mg/kg wet	1.665		94	47-127	2	20	
Surrogate: 2,4,6-Tribromophenol	*3.30*		*mg/kg wet*	*3.330*		*99*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.69*		*mg/kg wet*	*1.665*		*101*	*44-115*			
Surrogate: 2-Fluorophenol	*3.41*		*mg/kg wet*	*3.330*		*102*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.55*		*mg/kg wet*	*1.665*		*93*	*37-122*			
Surrogate: Phenol-d5	*3.24*		*mg/kg wet*	*3.330*		*97*	*34-121*			
Surrogate: Terphenyl-d14	*1.76*		*mg/kg wet*	*1.665*		*106*	*54-127*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0018 - MADEP VPH (S)										
Blank (P5C0018-BLK1)			Prepared & Analyzed: 03/02/15							
C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	*9.50*		*mg/kg wet*	*10.67*		*89*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*9.85*		*mg/kg wet*	*10.67*		*92*	*70-130*			
LCS (P5C0018-BS1)			Prepared & Analyzed: 03/02/15							
C5-C8 Aliphatics	33.5	5.0	mg/kg wet	32.00		105	70-130			
C9-C10 Aromatics	10.6	5.0	mg/kg wet	10.67		100	70-130			
C9-C12 Aliphatic	36.4	5.0	mg/kg wet	32.00		114	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*10.9*		*mg/kg wet*	*10.67*		*102*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*11.3*		*mg/kg wet*	*10.67*		*106*	*70-130*			
LCS Dup (P5C0018-BSD1)			Prepared & Analyzed: 03/02/15							
C5-C8 Aliphatics	32.1	5.0	mg/kg wet	32.00		100	70-130	4	50	
C9-C10 Aromatics	10.3	5.0	mg/kg wet	10.67		97	70-130	3	50	
C9-C12 Aliphatic	35.7	5.0	mg/kg wet	32.00		112	70-130	2	50	
Surrogate: 2,5-Dibromotoluene (PID)	*10.4*		*mg/kg wet*	*10.67*		*98*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*10.7*		*mg/kg wet*	*10.67*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0069 - 5035										
Blank (P5C0069-BLK1)				Prepared & Analyzed: 03/04/15						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*5.15*		*mg/kg wet*	*5.000*		*103*	*50-137*			
LCS (P5C0069-BS1)				Prepared & Analyzed: 03/04/15						
Gasoline Range Organics	55.6	5.0	mg/kg wet	50.00		111	41-138			
Surrogate: a,a,a-Trifluorotoluene	*5.05*		*mg/kg wet*	*5.000*		*101*	*50-137*			
LCS Dup (P5C0069-BSD1)				Prepared & Analyzed: 03/04/15						
Gasoline Range Organics	59.6	5.0	mg/kg wet	50.00		119	41-138	7	20	
Surrogate: a,a,a-Trifluorotoluene	*4.85*		*mg/kg wet*	*5.000*		*97*	*50-137*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0037 - 3546										
Blank (P5C0037-BLK1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	BRL	10	mg/kg wet							
C19-C36 Aliphatics	2.65	10	mg/kg wet							J
C11-C22 Aromatics	BRL	10	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.59*		*mg/kg wet*	*2.000*		*80*	*40-140*			
Surrogate: o-Terphenyl	*1.51*		*mg/kg wet*	*2.000*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.57*		*mg/kg wet*	*4.000*		*89*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.30*		*mg/kg wet*	*4.000*		*83*	*40-140*			
LCS (P5C0037-BS1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	34.3	10	mg/kg wet	60.00		57	40-140			
C19-C36 Aliphatics	66.1	10	mg/kg wet	80.00		83	40-140			
C11-C22 Aromatics	148	10	mg/kg wet	170.0		87	40-140			
Surrogate: 1-Chlorooctadecane	*1.81*		*mg/kg wet*	*2.000*		*91*	*40-140*			
Surrogate: o-Terphenyl	*1.86*		*mg/kg wet*	*2.000*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.76*		*mg/kg wet*	*4.000*		*94*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.81*		*mg/kg wet*	*4.000*		*95*	*40-140*			
LCS Dup (P5C0037-BSD1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	33.0	10	mg/kg wet	60.00		55	40-140	4	50	
C19-C36 Aliphatics	63.2	10	mg/kg wet	80.00		79	40-140	5	50	
C11-C22 Aromatics	135	10	mg/kg wet	170.0		79	40-140	9	50	
Surrogate: 1-Chlorooctadecane	*1.56*		*mg/kg wet*	*2.000*		*78*	*40-140*			
Surrogate: o-Terphenyl	*1.61*		*mg/kg wet*	*2.000*		*80*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*4.00*		*mg/kg wet*	*4.000*		*100*	*40-140*			
Surrogate: 2-Bromonaphthalene	*4.09*		*mg/kg wet*	*4.000*		*102*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0091 - 3546										
Blank (P5C0091-BLK1)				Prepared & Analyzed: 03/05/15						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*0.855*		*mg/kg wet*	*1.333*		*64*	*49-124*			
LCS (P5C0091-BS1)				Prepared & Analyzed: 03/05/15						
Diesel Range Organics	66.1	7.0	mg/kg wet	66.56		99	55-109			
Surrogate: o-Terphenyl	*1.40*		*mg/kg wet*	*1.331*		*105*	*49-124*			
LCS Dup (P5C0091-BSD1)				Prepared & Analyzed: 03/05/15						
Diesel Range Organics	64.9	7.0	mg/kg wet	66.64		97	55-109	2	20	
Surrogate: o-Terphenyl	*1.38*		*mg/kg wet*	*1.333*		*103*	*49-124*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0003 - 3050B										
Blank (P5C0003-BLK1)				Prepared: 03/02/15 Analyzed: 03/03/15						
Chromium	BRL	0.25	mg/kg wet							
Lead	BRL	0.25	mg/kg wet							
LCS (P5C0003-BS1)				Prepared: 03/02/15 Analyzed: 03/03/15						
Chromium	25.7	0.25	mg/kg wet	25.00		103	80-120			
Lead	24.9	0.25	mg/kg wet	25.00		99	80-120			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020471
Time Submitted: 2/26/2015 4:27:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0095 - Solids, Dry Weight										
Blank (P5C0095-BLK1)				Prepared & Analyzed: 03/05/15						
% Solids	100	0.100	% by Weight							

Sample Extraction Data

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020471-02	P5C0091	30 g	1 mL	03/05/15 12:00
5020471-04	P5C0091	30.06 g	1 mL	03/05/15 12:00

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020471-05	P5C0037	10 g	2 mL	03/03/15 11:10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020471-01	P5C0069	5.35 g	5 mL	03/04/15 12:38
5020471-02	P5C0069	6.12 g	5 mL	03/04/15 12:38
5020471-03	P5C0069	5.7 g	5 mL	03/04/15 12:38
5020471-04	P5C0069	5.9 g	5 mL	03/04/15 12:38

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
5020471-01	P5C0095	30 g	30 g	03/05/15 12:45
5020471-02	P5C0095	30 g	30 g	03/05/15 12:45
5020471-03	P5C0095	30 g	30 g	03/05/15 12:45
5020471-04	P5C0095	30 g	30 g	03/05/15 12:45
5020471-05	P5C0095	30 g	30 g	03/05/15 12:45

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5020471-05	P5C0033	30.06 g	1 mL	03/03/15 10:50

Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
5020471-05	P5C0003	1.97 g	50 mL	03/02/15 8:20

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5020471-06	P5C0031	10 mL	10 mL	03/02/15 10:03

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5020471-01	P5B0514	5.06 g	5 mL	02/27/15 8:37
5020471-03	P5B0514	5 g	5 mL	02/27/15 8:37
5020471-05	P5C0014	5.85 g	5 mL	03/02/15 12:54

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date/Time
5020471-05	P5C0018	17.96 g	16 mL	03/02/15 15:03

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Charlotte Airport Rental Car Facility

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Invoice To: Michelle Friedman

Address: 5925 Carnegie Blvd, Suite 370 Charlotte NC 28209

Purchase Order No./Billing Reference 60340238

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days

"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved

Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

Client Company Name: URS

Report To/Contact Name: James McDorman

Reporting Address: 6000 Fairview Rd, Suite 200 Charlotte, NC

Phone: 704-7?-0734 Fax (Yes) (No):

Email Address: James_McDorman@AECOM.com

EDD Type: PDF ___ Excel ___ Other ___

Site Location Name: Rental Car Facility

Site Location Physical Address: Rental Car Rd

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	X	X	
Received ON WET ICE?	X		
PROPER PRESERVATIVES indicated?	X		
Received WITHIN HOLDING TIMES?	X		
CUSTODY SEALS INTACT?			X
VOLATILES rec'd W/OUT HEADSPACE?			X
PROPER CONTAINERS used?			

TEMP: Therm ID: DCT-? Observed: 6.0 °C / Corr: 5.1 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC ___ DoD ___ FL ___ NC X
SC ___ OTHER ___ N/A ___

Water Chlorinated: YES ___ NO ___

Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	*TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260B	GRO	DRO	VPH + EPH	Cr+Pb	SVOCs	REMARKS	PRISM LAB ID NO.
Dollar TMW-3	2/25/15	1705	Soil	VOA+G	6	40ml 2oz	methanol + None	X	X						01
Dollar TMW-5	2/26/15	1200	Soil	VOA+G	3	40ml 4oz	methanol + None		X	X					02
Dollar TMW-2	2/25/15	1645	Soil	VOA+G	8	40ml 2oz	methanol + None	X	X						03
Dollar TMW-4	2/25/15	1700	Soil	VOA+G	3	40ml 4oz	methanol + None		X	X					04
Dollar TMW-6	2/26/15	1345	Soil	VOA+G	7	40ml 4oz, 8oz	methanol + None	X			X	X	X		05
Trip Blank	↓							X							TB 06

Sampler's Signature [signature] Sampled By (Print Name) Andrew Wrescky Affiliation URS/AECOM

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	2-26-15	16:27
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 2-26-15	16:27

Method of Shipment: **NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.**

☐ Fed Ex ☐ UPS ☒ Hand-delivered ☐ Prism Field Service ☐ Other ___

COC Group No. 5020471

Additional Comments:

PRISM USE ONLY

Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___	☐ ___

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/10/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/27/2015
Prism Work Order: 5030006

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones

President/Project Manager

Reviewed By Robbi A. Jones

President/Project Manager

Data Qualifiers Key Reference:

BH	MB greater than one half of the RL, but the sample concentrations are greater than 10x the MB.
CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
SR	Surrogate recovery outside the QC limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

03/10/2015

Prism Work Order: 5030006

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Enterprise TMW-1	5030006-01	Solid	02/26/15	02/27/15
Enterprise B1	5030006-02	Solid	02/26/15	02/27/15
National TMW-1 (4-6)	5030006-03	Solid	02/27/15	02/27/15
National TMW-1 (8-10)	5030006-04	Solid	02/27/15	02/27/15
National TMW-2	5030006-05	Solid	02/27/15	02/27/15
National TMW-3	5030006-06	Solid	02/27/15	02/27/15
National TMW-4 (4-6)	5030006-07	Solid	02/27/15	02/27/15
National TMW-4 (10-12)	5030006-08	Solid	02/27/15	02/27/15
National B1	5030006-09	Solid	02/27/15	02/27/15
Dup2	5030006-10	Solid	02/27/15	02/27/15
National B2	5030006-11	Solid	02/27/15	02/27/15

Samples were received in good condition at 4.9 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/10/2015

Prism Work Order: 5030006

Prism ID	Client ID	Parameter	Method	Result		Units
5030006-01	Enterprise TMW-1	Chromium	*6010C	35		mg/kg dry
5030006-01	Enterprise TMW-1	Lead	*6010C	6.4		mg/kg dry
5030006-01	Enterprise TMW-1	Acetone	8260B	0.059		mg/kg dry
5030006-03	National TMW-1 (4-6)	1,2,4-Trimethylbenzene	8260B	0.21		mg/kg dry
5030006-03	National TMW-1 (4-6)	1,3,5-Trimethylbenzene	8260B	0.071		mg/kg dry
5030006-03	National TMW-1 (4-6)	4-Isopropyltoluene	8260B	0.0042	J	mg/kg dry
5030006-03	National TMW-1 (4-6)	Acetone	8260B	0.082		mg/kg dry
5030006-03	National TMW-1 (4-6)	Benzene	8260B	0.19		mg/kg dry
5030006-03	National TMW-1 (4-6)	Ethylbenzene	8260B	0.13		mg/kg dry
5030006-03	National TMW-1 (4-6)	Isopropyl Ether	8260B	0.0043	J	mg/kg dry
5030006-03	National TMW-1 (4-6)	Isopropylbenzene (Cumene)	8260B	0.011		mg/kg dry
5030006-03	National TMW-1 (4-6)	m,p-Xylenes	8260B	0.34		mg/kg dry
5030006-03	National TMW-1 (4-6)	Methyl-tert-Butyl Ether	8260B	0.011	J	mg/kg dry
5030006-03	National TMW-1 (4-6)	Naphthalene	8260B	0.010	J	mg/kg dry
5030006-03	National TMW-1 (4-6)	n-Butylbenzene	8260B	0.0089		mg/kg dry
5030006-03	National TMW-1 (4-6)	n-Propylbenzene	8260B	0.039		mg/kg dry
5030006-03	National TMW-1 (4-6)	o-Xylene	8260B	0.16		mg/kg dry
5030006-03	National TMW-1 (4-6)	sec-Butylbenzene	8260B	0.0038	J	mg/kg dry
5030006-03	National TMW-1 (4-6)	tert-Amyl Alcohol	8260B	0.075	J	mg/kg dry
5030006-03	National TMW-1 (4-6)	tert-Butyl Alcohol	8260B	0.0068	J	mg/kg dry
5030006-03	National TMW-1 (4-6)	Xylenes, total	8260B	0.51		mg/kg dry
5030006-03	National TMW-1 (4-6)	Toluene	8260B	0.35		mg/kg dry
5030006-04	National TMW-1 (8-10)	Diesel Range Organics	*8015C	24		mg/kg dry
5030006-04	National TMW-1 (8-10)	Gasoline Range Organics	*8015C	50		mg/kg dry
5030006-04	National TMW-1 (8-10)	4-Isopropyltoluene	8260B	0.030		mg/kg dry
5030006-04	National TMW-1 (8-10)	Acetone	8260B	0.29		mg/kg dry
5030006-04	National TMW-1 (8-10)	Isopropyl Ether	8260B	0.030		mg/kg dry
5030006-04	National TMW-1 (8-10)	Isopropylbenzene (Cumene)	8260B	0.11		mg/kg dry
5030006-04	National TMW-1 (8-10)	Methyl Butyl Ketone (2-Hexanone)	8260B	0.24		mg/kg dry
5030006-04	National TMW-1 (8-10)	Methyl Isobutyl Ketone	8260B	0.061	J	mg/kg dry
5030006-04	National TMW-1 (8-10)	Methyl-tert-Butyl Ether	8260B	0.081		mg/kg dry
5030006-04	National TMW-1 (8-10)	n-Butylbenzene	8260B	0.11		mg/kg dry
5030006-04	National TMW-1 (8-10)	n-Propylbenzene	8260B	0.31		mg/kg dry
5030006-04	National TMW-1 (8-10)	sec-Butylbenzene	8260B	0.044		mg/kg dry
5030006-04	National TMW-1 (8-10)	tert-Butyl Alcohol	8260B	0.51		mg/kg dry
5030006-04	National TMW-1 (8-10)	1,2,4-Trimethylbenzene	8260B	5.4		mg/kg dry
5030006-04	National TMW-1 (8-10)	1,3,5-Trimethylbenzene	8260B	1.6		mg/kg dry
5030006-04	National TMW-1 (8-10)	Benzene	8260B	1.5		mg/kg dry
5030006-04	National TMW-1 (8-10)	Ethylbenzene	8260B	1.6		mg/kg dry
5030006-04	National TMW-1 (8-10)	m,p-Xylenes	8260B	5.9		mg/kg dry
5030006-04	National TMW-1 (8-10)	Methyl Ethyl Ketone (2-Butanone)	8260B	0.23	J	mg/kg dry
5030006-04	National TMW-1 (8-10)	Naphthalene	8260B	0.93		mg/kg dry
5030006-04	National TMW-1 (8-10)	o-Xylene	8260B	2.5		mg/kg dry
5030006-04	National TMW-1 (8-10)	tert-Amyl Alcohol	8260B	4.3	J	mg/kg dry

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/10/2015

Prism Work Order: 5030006

Prism ID	Client ID	Parameter	Method	Result		Units
5030006-04	National TMW-1 (8-10)	Toluene	8260B	5.3		mg/kg dry
5030006-04	National TMW-1 (8-10)	Xylenes, total	8260B	8.4		mg/kg dry
5030006-05	National TMW-2	Methyl-tert-Butyl Ether	8260B	0.0059	J	mg/kg dry
5030006-05	National TMW-2	tert-Amyl Alcohol	8260B	0.032	J	mg/kg dry
5030006-05	National TMW-2	tert-Butyl Alcohol	8260B	0.012	J	mg/kg dry
5030006-06	National TMW-3	Methyl-tert-Butyl Ether	8260B	0.0057	J	mg/kg dry
5030006-06	National TMW-3	tert-Butyl Alcohol	8260B	0.0056	J	mg/kg dry
5030006-07	National TMW-4 (4-6)	C19-C36 Aliphatics	MADEP EPH	10	J	mg/kg dry
5030006-07	National TMW-4 (4-6)	Chromium	*6010C	36		mg/kg dry
5030006-07	National TMW-4 (4-6)	Lead	*6010C	11		mg/kg dry
5030006-08	National TMW-4 (10-12)	Chromium	*6010C	19		mg/kg dry
5030006-08	National TMW-4 (10-12)	Lead	*6010C	10		mg/kg dry
5030006-08	National TMW-4 (10-12)	Methyl-tert-Butyl Ether	8260B	0.0044	J	mg/kg dry
5030006-09	National B1	Chromium	*6010C	34		mg/kg dry
5030006-09	National B1	Lead	*6010C	8.8		mg/kg dry
5030006-10	Dup2	Methyl-tert-Butyl Ether	8260B	0.0063	J	mg/kg dry
5030006-10	Dup2	tert-Butyl Alcohol	8260B	0.010	J	mg/kg dry
5030006-11	National B2	Gasoline Range Organics	*8015C	7.2		mg/kg dry
5030006-11	National B2	1,2,4-Trimethylbenzene	8260B	0.16		mg/kg dry
5030006-11	National B2	1,3,5-Trimethylbenzene	8260B	0.046		mg/kg dry
5030006-11	National B2	4-Isopropyltoluene	8260B	0.0068		mg/kg dry
5030006-11	National B2	Acetone	8260B	0.11		mg/kg dry
5030006-11	National B2	Ethylbenzene	8260B	0.13		mg/kg dry
5030006-11	National B2	Isopropyl Ether	8260B	0.016		mg/kg dry
5030006-11	National B2	Isopropylbenzene (Cumene)	8260B	0.0081		mg/kg dry
5030006-11	National B2	m,p-Xylenes	8260B	0.36		mg/kg dry
5030006-11	National B2	Methyl Butyl Ketone (2-Hexanone)	8260B	0.015	J	mg/kg dry
5030006-11	National B2	Methyl Ethyl Ketone (2-Butanone)	8260B	0.10	J	mg/kg dry
5030006-11	National B2	Naphthalene	8260B	0.058		mg/kg dry
5030006-11	National B2	n-Butylbenzene	8260B	0.0055	J	mg/kg dry
5030006-11	National B2	n-Propylbenzene	8260B	0.026		mg/kg dry
5030006-11	National B2	o-Xylene	8260B	0.19		mg/kg dry
5030006-11	National B2	tert-Amyl Methyl Ether	8260B	0.0031	J	mg/kg dry
5030006-11	National B2	tert-Butyl Alcohol	8260B	0.37		mg/kg dry
5030006-11	National B2	Xylenes, total	8260B	0.54		mg/kg dry
5030006-11	National B2	Benzene	8260B	0.18	J	mg/kg dry
5030006-11	National B2	Methyl-tert-Butyl Ether	8260B	0.22	J	mg/kg dry
5030006-11	National B2	tert-Amyl Alcohol	8260B	3.1	J	mg/kg dry
5030006-11	National B2	Toluene	8260B	0.23	J	mg/kg dry

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Enterprise TMW-1
Prism Sample ID: 5030006-01
Prism Work Order: 5030006
Time Collected: 02/26/15 16:25
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	0.66	1	MADEP EPH	3/5/15 20:35	KC	P5C0037
C19-C36 Aliphatics	BRL	mg/kg dry	12	2.7	1	MADEP EPH	3/5/15 20:35	KC	P5C0037
C11-C22 Aromatics	BRL	mg/kg dry	12	2.1	1	MADEP EPH	3/5/15 20:35	KC	P5C0037

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*81 %*	*40-140*
o-Terphenyl	*89 %*	*40-140*
2-Fluorobiphenyl	*93 %*	*40-140*
2-Bromonaphthalene	*90 %*	*40-140*

General Chemistry Parameters									
% Solids	**86.0**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.38	0.060	1	8270D	3/4/15 12:37	KC	P5C0033
1,2-Dichlorobenzene	BRL	mg/kg dry	0.38	0.058	1	8270D	3/4/15 12:37	KC	P5C0033
1,3-Dichlorobenzene	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 12:37	KC	P5C0033
1,4-Dichlorobenzene	BRL	mg/kg dry	0.38	0.056	1	8270D	3/4/15 12:37	KC	P5C0033
1-Methylnaphthalene	BRL	mg/kg dry	0.38	0.074	1	8270D	3/4/15 12:37	KC	P5C0033
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.38	0.072	1	8270D	3/4/15 12:37	KC	P5C0033
2,4-Dichlorophenol	BRL	mg/kg dry	0.38	0.074	1	8270D	3/4/15 12:37	KC	P5C0033
2,4-Dimethylphenol	BRL	mg/kg dry	0.38	0.059	1	8270D	3/4/15 12:37	KC	P5C0033
2,4-Dinitrophenol	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 12:37	KC	P5C0033
2,4-Dinitrotoluene	BRL	mg/kg dry	0.38	0.047	1	8270D	3/4/15 12:37	KC	P5C0033
2,6-Dinitrotoluene	BRL	mg/kg dry	0.38	0.051	1	8270D	3/4/15 12:37	KC	P5C0033
2-Chloronaphthalene	BRL	mg/kg dry	0.38	0.056	1	8270D	3/4/15 12:37	KC	P5C0033
2-Chlorophenol	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 12:37	KC	P5C0033
2-Methylnaphthalene	BRL	mg/kg dry	0.38	0.061	1	8270D	3/4/15 12:37	KC	P5C0033
2-Methylphenol	BRL	mg/kg dry	0.38	0.049	1	8270D	3/4/15 12:37	KC	P5C0033
2-Nitrophenol	BRL	mg/kg dry	0.38	0.070	1	8270D	3/4/15 12:37	KC	P5C0033
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.38	0.076	1	8270D	3/4/15 12:37	KC	P5C0033
3/4-Methylphenol	BRL	mg/kg dry	0.38	0.047	1	8270D	3/4/15 12:37	KC	P5C0033
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.38	0.058	1	8270D	3/4/15 12:37	KC	P5C0033
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.38	0.066	1	8270D	3/4/15 12:37	KC	P5C0033
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 12:37	KC	P5C0033
4-Chloroaniline	BRL	mg/kg dry	0.38	0.046	1	8270D	3/4/15 12:37	KC	P5C0033
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 12:37	KC	P5C0033
4-Nitrophenol	BRL	mg/kg dry	0.38	0.059	1	8270D	3/4/15 12:37	KC	P5C0033
Acenaphthene	BRL	mg/kg dry	0.38	0.052	1	8270D	3/4/15 12:37	KC	P5C0033
Acenaphthylene	BRL	mg/kg dry	0.38	0.056	1	8270D	3/4/15 12:37	KC	P5C0033
Anthracene	BRL	mg/kg dry	0.38	0.062	1	8270D	3/4/15 12:37	KC	P5C0033
Azobenzene	BRL	mg/kg dry	0.38	0.051	1	8270D	3/4/15 12:37	KC	P5C0033
Benzo(a)anthracene	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 12:37	KC	P5C0033
Benzo(a)pyrene	BRL	mg/kg dry	0.38	0.041	1	8270D	3/4/15 12:37	KC	P5C0033

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Enterprise TMW-1
Prism Sample ID: 5030006-01
Prism Work Order: 5030006
Time Collected: 02/26/15 16:25
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.38	0.044	1	8270D	3/4/15 12:37	KC	P5C0033
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.38	0.042	1	8270D	3/4/15 12:37	KC	P5C0033
Benzo(k)fluoranthene	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 12:37	KC	P5C0033
Benzoic Acid	BRL CCV	mg/kg dry	0.38	0.032	1	8270D	3/4/15 12:37	KC	P5C0033
Benzyl alcohol	BRL	mg/kg dry	0.38	0.051	1	8270D	3/4/15 12:37	KC	P5C0033
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.38	0.067	1	8270D	3/4/15 12:37	KC	P5C0033
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 12:37	KC	P5C0033
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.38	0.066	1	8270D	3/4/15 12:37	KC	P5C0033
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.38	0.057	1	8270D	3/4/15 12:37	KC	P5C0033
Butyl benzyl phthalate	BRL	mg/kg dry	0.38	0.055	1	8270D	3/4/15 12:37	KC	P5C0033
Chrysene	BRL	mg/kg dry	0.38	0.048	1	8270D	3/4/15 12:37	KC	P5C0033
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.38	0.047	1	8270D	3/4/15 12:37	KC	P5C0033
Dibenzofuran	BRL	mg/kg dry	0.38	0.058	1	8270D	3/4/15 12:37	KC	P5C0033
Diethyl phthalate	BRL	mg/kg dry	0.38	0.053	1	8270D	3/4/15 12:37	KC	P5C0033
Dimethyl phthalate	BRL	mg/kg dry	0.38	0.051	1	8270D	3/4/15 12:37	KC	P5C0033
Di-n-butyl phthalate	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 12:37	KC	P5C0033
Di-n-octyl phthalate	BRL	mg/kg dry	0.38	0.047	1	8270D	3/4/15 12:37	KC	P5C0033
Fluoranthene	BRL	mg/kg dry	0.38	0.049	1	8270D	3/4/15 12:37	KC	P5C0033
Fluorene	BRL	mg/kg dry	0.38	0.055	1	8270D	3/4/15 12:37	KC	P5C0033
Hexachlorobenzene	BRL	mg/kg dry	0.38	0.061	1	8270D	3/4/15 12:37	KC	P5C0033
Hexachlorobutadiene	BRL	mg/kg dry	0.38	0.069	1	8270D	3/4/15 12:37	KC	P5C0033
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.38	0.068	1	8270D	3/4/15 12:37	KC	P5C0033
Hexachloroethane	BRL	mg/kg dry	0.38	0.064	1	8270D	3/4/15 12:37	KC	P5C0033
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.38	0.044	1	8270D	3/4/15 12:37	KC	P5C0033
Isophorone	BRL	mg/kg dry	0.38	0.052	1	8270D	3/4/15 12:37	KC	P5C0033
Naphthalene	BRL	mg/kg dry	0.38	0.062	1	8270D	3/4/15 12:37	KC	P5C0033
Nitrobenzene	BRL	mg/kg dry	0.38	0.054	1	8270D	3/4/15 12:37	KC	P5C0033
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.38	0.060	1	8270D	3/4/15 12:37	KC	P5C0033
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.38	0.058	1	8270D	3/4/15 12:37	KC	P5C0033
Pentachlorophenol	BRL	mg/kg dry	0.38	0.045	1	8270D	3/4/15 12:37	KC	P5C0033
Phenanthrene	BRL	mg/kg dry	0.38	0.050	1	8270D	3/4/15 12:37	KC	P5C0033
Phenol	BRL	mg/kg dry	0.38	0.057	1	8270D	3/4/15 12:37	KC	P5C0033
Pyrene	BRL	mg/kg dry	0.38	0.051	1	8270D	3/4/15 12:37	KC	P5C0033

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*90 %*	*39-132*
2-Fluorobiphenyl	*96 %*	*44-115*
2-Fluorophenol	*93 %*	*35-115*
Nitrobenzene-d5	*86 %*	*37-122*
Phenol-d5	*88 %*	*34-121*
Terphenyl-d14	*106 %*	*54-127*

Total Metals

Chromium	**35**	**mg/kg dry**	**0.29**	**0.047**	**1**	***6010C**	**3/3/15 21:29**	**BGM**	**P5C0024**
Lead	**6.4**	**mg/kg dry**	**0.29**	**0.044**	**1**	***6010C**	**3/3/15 21:29**	**BGM**	**P5C0024**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Enterprise TMW-1
Prism Sample ID: 5030006-01
Prism Work Order: 5030006
Time Collected: 02/26/15 16:25
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0058	0.00047	1	8260B	3/2/15 14:07	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0058	0.00028	1	8260B	3/2/15 14:07	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0058	0.00039	1	8260B	3/2/15 14:07	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0058	0.00051	1	8260B	3/2/15 14:07	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0058	0.00016	1	8260B	3/2/15 14:07	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0058	0.00026	1	8260B	3/2/15 14:07	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0058	0.00032	1	8260B	3/2/15 14:07	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0058	0.00033	1	8260B	3/2/15 14:07	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0058	0.00074	1	8260B	3/2/15 14:07	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0058	0.00043	1	8260B	3/2/15 14:07	MSC	P5C0014
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0058	0.00044	1	8260B	3/2/15 14:07	MSC	P5C0014
1,2-Dibromoethane	BRL	mg/kg dry	0.0058	0.00023	1	8260B	3/2/15 14:07	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0058	0.00027	1	8260B	3/2/15 14:07	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0058	0.00034	1	8260B	3/2/15 14:07	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0058	0.00036	1	8260B	3/2/15 14:07	MSC	P5C0014
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0058	0.00044	1	8260B	3/2/15 14:07	MSC	P5C0014
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0058	0.00038	1	8260B	3/2/15 14:07	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0058	0.00029	1	8260B	3/2/15 14:07	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0058	0.00023	1	8260B	3/2/15 14:07	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0058	0.00027	1	8260B	3/2/15 14:07	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0058	0.00030	1	8260B	3/2/15 14:07	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0058	0.00034	1	8260B	3/2/15 14:07	MSC	P5C0014
4-Isopropyltoluene	BRL	mg/kg dry	0.0058	0.00028	1	8260B	3/2/15 14:07	MSC	P5C0014
Acetone	**0.059**	**mg/kg dry**	**0.058**	**0.0014**	**1**	**8260B**	**3/2/15 14:07**	**MSC**	**P5C0014**
Benzene	BRL	mg/kg dry	0.0035	0.00034	1	8260B	3/2/15 14:07	MSC	P5C0014
Bromobenzene	BRL	mg/kg dry	0.0058	0.00048	1	8260B	3/2/15 14:07	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0058	0.00032	1	8260B	3/2/15 14:07	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0058	0.00032	1	8260B	3/2/15 14:07	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0058	0.00066	1	8260B	3/2/15 14:07	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.012	0.00071	1	8260B	3/2/15 14:07	MSC	P5C0014
Carbon Tetrachloride	BRL	mg/kg dry	0.0058	0.00029	1	8260B	3/2/15 14:07	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0058	0.00031	1	8260B	3/2/15 14:07	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.012	0.00048	1	8260B	3/2/15 14:07	MSC	P5C0014
Chloroform	BRL	mg/kg dry	0.0058	0.00042	1	8260B	3/2/15 14:07	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0058	0.00039	1	8260B	3/2/15 14:07	MSC	P5C0014
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0058	0.00025	1	8260B	3/2/15 14:07	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0058	0.00019	1	8260B	3/2/15 14:07	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0058	0.00024	1	8260B	3/2/15 14:07	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0058	0.00026	1	8260B	3/2/15 14:07	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.29	0.12	1	8260B	3/2/15 14:07	MSC	P5C0014
Ethylbenzene	BRL	mg/kg dry	0.0058	0.00022	1	8260B	3/2/15 14:07	MSC	P5C0014
Isopropyl Ether	BRL	mg/kg dry	0.0058	0.00024	1	8260B	3/2/15 14:07	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Enterprise TMW-1
Prism Sample ID: 5030006-01
Prism Work Order: 5030006
Time Collected: 02/26/15 16:25
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0058	0.00034	1	8260B	3/2/15 14:07	MSC	P5C0014
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00053	1	8260B	3/2/15 14:07	MSC	P5C0014
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.058	0.00052	1	8260B	3/2/15 14:07	MSC	P5C0014
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00052	1	8260B	3/2/15 14:07	MSC	P5C0014
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.058	0.00049	1	8260B	3/2/15 14:07	MSC	P5C0014
Methylene Chloride	BRL	mg/kg dry	0.0058	0.00032	1	8260B	3/2/15 14:07	MSC	P5C0014
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00018	1	8260B	3/2/15 14:07	MSC	P5C0014
Naphthalene	BRL	mg/kg dry	0.012	0.00018	1	8260B	3/2/15 14:07	MSC	P5C0014
n-Butylbenzene	BRL	mg/kg dry	0.0058	0.00029	1	8260B	3/2/15 14:07	MSC	P5C0014
n-Propylbenzene	BRL	mg/kg dry	0.0058	0.00034	1	8260B	3/2/15 14:07	MSC	P5C0014
o-Xylene	BRL	mg/kg dry	0.0058	0.00024	1	8260B	3/2/15 14:07	MSC	P5C0014
sec-Butylbenzene	BRL	mg/kg dry	0.0058	0.00028	1	8260B	3/2/15 14:07	MSC	P5C0014
Styrene	BRL	mg/kg dry	0.0058	0.00035	1	8260B	3/2/15 14:07	MSC	P5C0014
tert-Amyl Alcohol	BRL	mg/kg dry	0.46	0.0048	1	8260B	3/2/15 14:07	MSC	P5C0014
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.12	0.00049	1	8260B	3/2/15 14:07	MSC	P5C0014
tert-Butyl Alcohol	BRL	mg/kg dry	0.23	0.00041	1	8260B	3/2/15 14:07	MSC	P5C0014
tert-Butyl Formate	BRL CCV	mg/kg dry	0.46	0.00057	1	8260B	3/2/15 14:07	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0058	0.00020	1	8260B	3/2/15 14:07	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.12	0.00041	1	8260B	3/2/15 14:07	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0058	0.00027	1	8260B	3/2/15 14:07	MSC	P5C0014
Toluene	BRL	mg/kg dry	0.0058	0.00033	1	8260B	3/2/15 14:07	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0058	0.00035	1	8260B	3/2/15 14:07	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0058	0.00030	1	8260B	3/2/15 14:07	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0058	0.00037	1	8260B	3/2/15 14:07	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0058	0.00037	1	8260B	3/2/15 14:07	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.029	0.00079	1	8260B	3/2/15 14:07	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0058	0.00028	1	8260B	3/2/15 14:07	MSC	P5C0014
Xylenes, total	BRL	mg/kg dry	0.017	0.0011	1	8260B	3/2/15 14:07	MSC	P5C0014

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*70-130*
Dibromofluoromethane	*99 %*	*84-123*
Toluene-d8	*100 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
C5-C8 Aliphatics	BRL	mg/kg dry	5.1	0.20	100	MADEP VPH	3/2/15 21:53	ANG	P5C0018
C9-C12 Aliphatics	BRL	mg/kg dry	5.1	0.47	100	MADEP VPH	3/2/15 21:53	ANG	P5C0018
C9-C10 Aromatics	BRL	mg/kg dry	5.1	0.044	100	MADEP VPH	3/2/15 21:53	ANG	P5C0018

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*126 %*	*70-130*
2,5-Dibromotoluene (FID)	*130 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Enterprise B1
Prism Sample ID: 5030006-02
Prism Work Order: 5030006
Time Collected: 02/26/15 16:30
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.6	1.2	50	*8015C	3/4/15 20:55	ANG	P5C0069
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*108 %*		*50-137*	
General Chemistry Parameters									
% Solids	**88.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0061	0.00050	1	8260B	3/2/15 14:31	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 14:31	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0061	0.00041	1	8260B	3/2/15 14:31	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0061	0.00054	1	8260B	3/2/15 14:31	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0061	0.00017	1	8260B	3/2/15 14:31	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00027	1	8260B	3/2/15 14:31	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00033	1	8260B	3/2/15 14:31	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0061	0.00034	1	8260B	3/2/15 14:31	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0061	0.00077	1	8260B	3/2/15 14:31	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0061	0.00045	1	8260B	3/2/15 14:31	MSC	P5C0014
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0061	0.00046	1	8260B	3/2/15 14:31	MSC	P5C0014
1,2-Dibromoethane	BRL	mg/kg dry	0.0061	0.00024	1	8260B	3/2/15 14:31	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.00028	1	8260B	3/2/15 14:31	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0061	0.00036	1	8260B	3/2/15 14:31	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0061	0.00038	1	8260B	3/2/15 14:31	MSC	P5C0014
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0061	0.00046	1	8260B	3/2/15 14:31	MSC	P5C0014
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.00040	1	8260B	3/2/15 14:31	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0061	0.00030	1	8260B	3/2/15 14:31	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.00024	1	8260B	3/2/15 14:31	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 14:31	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0061	0.00031	1	8260B	3/2/15 14:31	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0061	0.00036	1	8260B	3/2/15 14:31	MSC	P5C0014
4-Isopropyltoluene	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 14:31	MSC	P5C0014
Acetone	BRL	mg/kg dry	0.061	0.0015	1	8260B	3/2/15 14:31	MSC	P5C0014
Benzene	BRL	mg/kg dry	0.0036	0.00035	1	8260B	3/2/15 14:31	MSC	P5C0014
Bromobenzene	BRL	mg/kg dry	0.0061	0.00051	1	8260B	3/2/15 14:31	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0061	0.00033	1	8260B	3/2/15 14:31	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0061	0.00034	1	8260B	3/2/15 14:31	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0061	0.00069	1	8260B	3/2/15 14:31	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.012	0.00075	1	8260B	3/2/15 14:31	MSC	P5C0014
Carbon Tetrachloride	BRL	mg/kg dry	0.0061	0.00030	1	8260B	3/2/15 14:31	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0061	0.00032	1	8260B	3/2/15 14:31	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.012	0.00051	1	8260B	3/2/15 14:31	MSC	P5C0014
Chloroform	BRL	mg/kg dry	0.0061	0.00044	1	8260B	3/2/15 14:31	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0061	0.00041	1	8260B	3/2/15 14:31	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Enterprise B1
Prism Sample ID: 5030006-02
Prism Work Order: 5030006
Time Collected: 02/26/15 16:30
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00026	1	8260B	3/2/15 14:31	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00020	1	8260B	3/2/15 14:31	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0061	0.00025	1	8260B	3/2/15 14:31	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0061	0.00027	1	8260B	3/2/15 14:31	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.30	0.12	1	8260B	3/2/15 14:31	MSC	P5C0014
Ethylbenzene	BRL	mg/kg dry	0.0061	0.00023	1	8260B	3/2/15 14:31	MSC	P5C0014
Isopropyl Ether	BRL	mg/kg dry	0.0061	0.00025	1	8260B	3/2/15 14:31	MSC	P5C0014
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0061	0.00036	1	8260B	3/2/15 14:31	MSC	P5C0014
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00056	1	8260B	3/2/15 14:31	MSC	P5C0014
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.061	0.00055	1	8260B	3/2/15 14:31	MSC	P5C0014
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00055	1	8260B	3/2/15 14:31	MSC	P5C0014
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.061	0.00052	1	8260B	3/2/15 14:31	MSC	P5C0014
Methylene Chloride	BRL	mg/kg dry	0.0061	0.00034	1	8260B	3/2/15 14:31	MSC	P5C0014
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00019	1	8260B	3/2/15 14:31	MSC	P5C0014
Naphthalene	BRL	mg/kg dry	0.012	0.00019	1	8260B	3/2/15 14:31	MSC	P5C0014
n-Butylbenzene	BRL	mg/kg dry	0.0061	0.00031	1	8260B	3/2/15 14:31	MSC	P5C0014
n-Propylbenzene	BRL	mg/kg dry	0.0061	0.00036	1	8260B	3/2/15 14:31	MSC	P5C0014
o-Xylene	BRL	mg/kg dry	0.0061	0.00025	1	8260B	3/2/15 14:31	MSC	P5C0014
sec-Butylbenzene	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 14:31	MSC	P5C0014
Styrene	BRL	mg/kg dry	0.0061	0.00036	1	8260B	3/2/15 14:31	MSC	P5C0014
tert-Amyl Alcohol	BRL	mg/kg dry	0.48	0.0050	1	8260B	3/2/15 14:31	MSC	P5C0014
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.12	0.00052	1	8260B	3/2/15 14:31	MSC	P5C0014
tert-Butyl Alcohol	BRL	mg/kg dry	0.24	0.00043	1	8260B	3/2/15 14:31	MSC	P5C0014
tert-Butyl Formate	BRL CCV	mg/kg dry	0.48	0.00060	1	8260B	3/2/15 14:31	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0061	0.00020	1	8260B	3/2/15 14:31	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.12	0.00043	1	8260B	3/2/15 14:31	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 14:31	MSC	P5C0014
Toluene	BRL	mg/kg dry	0.0061	0.00035	1	8260B	3/2/15 14:31	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00036	1	8260B	3/2/15 14:31	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00032	1	8260B	3/2/15 14:31	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0061	0.00039	1	8260B	3/2/15 14:31	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0061	0.00039	1	8260B	3/2/15 14:31	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.030	0.00083	1	8260B	3/2/15 14:31	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 14:31	MSC	P5C0014
Xylenes, total	BRL	mg/kg dry	0.018	0.0011	1	8260B	3/2/15 14:31	MSC	P5C0014

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*113 %*	*70-130*
Dibromofluoromethane	*113 %*	*84-123*
Toluene-d8	*112 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-1 (4-6)
Prism Sample ID: 5030006-03
Prism Work Order: 5030006
Time Collected: 02/27/15 14:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.4	1.2	1	*8015C	3/5/15 21:43	JMV	P5C0091
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*61 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.4	1.3	50	*8015C	3/4/15 21:23	ANG	P5C0069
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*125 %*		*50-137*	
General Chemistry Parameters									
% Solids	**82.9**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0065	0.00054	1	8260B	3/2/15 20:55	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0065	0.00032	1	8260B	3/2/15 20:55	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0065	0.00044	1	8260B	3/2/15 20:55	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0065	0.00058	1	8260B	3/2/15 20:55	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0065	0.00018	1	8260B	3/2/15 20:55	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0065	0.00029	1	8260B	3/2/15 20:55	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0065	0.00036	1	8260B	3/2/15 20:55	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0065	0.00037	1	8260B	3/2/15 20:55	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0065	0.00083	1	8260B	3/2/15 20:55	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0065	0.00048	1	8260B	3/2/15 20:55	MSC	P5C0014
1,2,4-Trimethylbenzene	**0.21**	**mg/kg dry**	**0.0065**	**0.00050**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
1,2-Dibromoethane	BRL	mg/kg dry	0.0065	0.00026	1	8260B	3/2/15 20:55	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0065	0.00031	1	8260B	3/2/15 20:55	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0065	0.00039	1	8260B	3/2/15 20:55	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0065	0.00040	1	8260B	3/2/15 20:55	MSC	P5C0014
1,3,5-Trimethylbenzene	**0.071**	**mg/kg dry**	**0.0065**	**0.00049**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0065	0.00043	1	8260B	3/2/15 20:55	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0065	0.00033	1	8260B	3/2/15 20:55	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0065	0.00026	1	8260B	3/2/15 20:55	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0065	0.00031	1	8260B	3/2/15 20:55	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0065	0.00034	1	8260B	3/2/15 20:55	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0065	0.00039	1	8260B	3/2/15 20:55	MSC	P5C0014
4-Isopropyltoluene	**0.0042 J**	**mg/kg dry**	**0.0065**	**0.00031**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
Acetone	**0.082**	**mg/kg dry**	**0.065**	**0.0016**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
Benzene	**0.19**	**mg/kg dry**	**0.0039**	**0.00038**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
Bromobenzene	BRL	mg/kg dry	0.0065	0.00054	1	8260B	3/2/15 20:55	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0065	0.00036	1	8260B	3/2/15 20:55	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0065	0.00036	1	8260B	3/2/15 20:55	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0065	0.00074	1	8260B	3/2/15 20:55	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.013	0.00080	1	8260B	3/2/15 20:55	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-1 (4-6)
Prism Sample ID: 5030006-03
Prism Work Order: 5030006
Time Collected: 02/27/15 14:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0065	0.00032	1	8260B	3/2/15 20:55	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0065	0.00035	1	8260B	3/2/15 20:55	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.013	0.00054	1	8260B	3/2/15 20:55	MSC	P5C0014
Chloroform	BRL	mg/kg dry	0.0065	0.00047	1	8260B	3/2/15 20:55	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0065	0.00044	1	8260B	3/2/15 20:55	MSC	P5C0014
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0065	0.00028	1	8260B	3/2/15 20:55	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0065	0.00022	1	8260B	3/2/15 20:55	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0065	0.00027	1	8260B	3/2/15 20:55	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0065	0.00030	1	8260B	3/2/15 20:55	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.33	0.13	1	8260B	3/2/15 20:55	MSC	P5C0014
Ethylbenzene	**0.13**	**mg/kg dry**	**0.0065**	**0.00025**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
Isopropyl Ether	**0.0043 J**	**mg/kg dry**	**0.0065**	**0.00027**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
Isopropylbenzene (Cumene)	**0.011**	**mg/kg dry**	**0.0065**	**0.00039**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
m,p-Xylenes	**0.34**	**mg/kg dry**	**0.013**	**0.00060**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.065	0.00059	1	8260B	3/2/15 20:55	MSC	P5C0014
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.13	0.00059	1	8260B	3/2/15 20:55	MSC	P5C0014
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.065	0.00055	1	8260B	3/2/15 20:55	MSC	P5C0014
Methylene Chloride	BRL	mg/kg dry	0.0065	0.00037	1	8260B	3/2/15 20:55	MSC	P5C0014
Methyl-tert-Butyl Ether	**0.011 J**	**mg/kg dry**	**0.013**	**0.00021**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
Naphthalene	**0.010 J**	**mg/kg dry**	**0.013**	**0.00021**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
n-Butylbenzene	**0.0089**	**mg/kg dry**	**0.0065**	**0.00033**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
n-Propylbenzene	**0.039**	**mg/kg dry**	**0.0065**	**0.00039**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
o-Xylene	**0.16**	**mg/kg dry**	**0.0065**	**0.00027**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
sec-Butylbenzene	**0.0038 J**	**mg/kg dry**	**0.0065**	**0.00032**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
Styrene	BRL	mg/kg dry	0.0065	0.00039	1	8260B	3/2/15 20:55	MSC	P5C0014
tert-Amyl Alcohol	**0.075 J**	**mg/kg dry**	**0.52**	**0.0054**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.13	0.00056	1	8260B	3/2/15 20:55	MSC	P5C0014
tert-Butyl Alcohol	**0.0068 J**	**mg/kg dry**	**0.26**	**0.00046**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**
tert-Butyl Formate	BRL CCV	mg/kg dry	0.52	0.00065	1	8260B	3/2/15 20:55	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0065	0.00022	1	8260B	3/2/15 20:55	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.13	0.00046	1	8260B	3/2/15 20:55	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0065	0.00031	1	8260B	3/2/15 20:55	MSC	P5C0014
Toluene	See 8260ML	mg/kg dry	0.0065	0.00037	1	8260B	3/2/15 20:55	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0065	0.00039	1	8260B	3/2/15 20:55	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0065	0.00034	1	8260B	3/2/15 20:55	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0065	0.00042	1	8260B	3/2/15 20:55	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0065	0.00042	1	8260B	3/2/15 20:55	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.033	0.00089	1	8260B	3/2/15 20:55	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0065	0.00032	1	8260B	3/2/15 20:55	MSC	P5C0014
Xylenes, total	**0.51**	**mg/kg dry**	**0.020**	**0.0012**	**1**	**8260B**	**3/2/15 20:55**	**MSC**	**P5C0014**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*99 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-1 (4-6)
Prism Sample ID: 5030006-03
Prism Work Order: 5030006
Time Collected: 02/27/15 14:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane			*96 %*		*84-123*	
			Toluene-d8			*96 %*		*76-129*	
Volatile Organic Compounds by GC/MS (Medium Level)									
Toluene	**0.35**	**mg/kg dry**	**0.32**	**0.067**	**50**	**8260B**	**3/3/15 12:23**	**MSC**	**P5C0060**
			Surrogate			Recovery		Control Limits	
			4-Bromofluorobenzene			*165 %*		*70-130*	*SR*
			Dibromofluoromethane			*133 %*		*70-130*	*SR*
			Toluene-d8			*140 %*		*70-130*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-1 (8-10)
Prism Sample ID: 5030006-04
Prism Work Order: 5030006
Time Collected: 02/27/15 14:05
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	**24**	**mg/kg dry**	**10**	**1.5**	**1**	***8015C**	**3/5/15 22:20**	**JMV**	**P5C0091**
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*67 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	**50**	**mg/kg dry**	**7.5**	**1.6**	**50**	***8015C**	**3/4/15 21:51**	**ANG**	**P5C0069**
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*129 %*		*50-137*	
General Chemistry Parameters									
% Solids	**69.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0091	0.00075	1	8260B	3/2/15 21:19	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0091	0.00044	1	8260B	3/2/15 21:19	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0091	0.00062	1	8260B	3/2/15 21:19	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0091	0.00081	1	8260B	3/2/15 21:19	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0091	0.00025	1	8260B	3/2/15 21:19	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0091	0.00040	1	8260B	3/2/15 21:19	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0091	0.00050	1	8260B	3/2/15 21:19	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0091	0.00052	1	8260B	3/2/15 21:19	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0091	0.0012	1	8260B	3/2/15 21:19	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0091	0.00068	1	8260B	3/2/15 21:19	MSC	P5C0014
1,2,4-Trimethylbenzene	See 8260ML	mg/kg dry	0.0091	0.00070	1	8260B	3/2/15 21:19	MSC	P5C0014
1,2-Dibromoethane	BRL	mg/kg dry	0.0091	0.00037	1	8260B	3/2/15 21:19	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0091	0.00043	1	8260B	3/2/15 21:19	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0091	0.00054	1	8260B	3/2/15 21:19	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0091	0.00056	1	8260B	3/2/15 21:19	MSC	P5C0014
1,3,5-Trimethylbenzene	See 8260ML	mg/kg dry	0.0091	0.00069	1	8260B	3/2/15 21:19	MSC	P5C0014
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0091	0.00060	1	8260B	3/2/15 21:19	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0091	0.00046	1	8260B	3/2/15 21:19	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0091	0.00036	1	8260B	3/2/15 21:19	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0091	0.00043	1	8260B	3/2/15 21:19	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0091	0.00047	1	8260B	3/2/15 21:19	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0091	0.00054	1	8260B	3/2/15 21:19	MSC	P5C0014
4-Isopropyltoluene	**0.030**	**mg/kg dry**	**0.0091**	**0.00044**	**1**	**8260B**	**3/2/15 21:19**	**MSC**	**P5C0014**
Acetone	**0.29**	**mg/kg dry**	**0.091**	**0.0022**	**1**	**8260B**	**3/2/15 21:19**	**MSC**	**P5C0014**
Benzene	See 8260ML	mg/kg dry	0.0055	0.00053	1	8260B	3/2/15 21:19	MSC	P5C0014
Bromobenzene	BRL	mg/kg dry	0.0091	0.00076	1	8260B	3/2/15 21:19	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0091	0.00050	1	8260B	3/2/15 21:19	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0091	0.00051	1	8260B	3/2/15 21:19	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0091	0.0010	1	8260B	3/2/15 21:19	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.018	0.0011	1	8260B	3/2/15 21:19	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-1 (8-10)
Prism Sample ID: 5030006-04
Prism Work Order: 5030006
Time Collected: 02/27/15 14:05
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0091	0.00045	1	8260B	3/2/15 21:19	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0091	0.00048	1	8260B	3/2/15 21:19	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.018	0.00076	1	8260B	3/2/15 21:19	MSC	P5C0014
Chloroform	BRL	mg/kg dry	0.0091	0.00066	1	8260B	3/2/15 21:19	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0091	0.00061	1	8260B	3/2/15 21:19	MSC	P5C0014
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0091	0.00039	1	8260B	3/2/15 21:19	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0091	0.00031	1	8260B	3/2/15 21:19	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0091	0.00038	1	8260B	3/2/15 21:19	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0091	0.00041	1	8260B	3/2/15 21:19	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.46	0.18	1	8260B	3/2/15 21:19	MSC	P5C0014
Ethylbenzene	See 8260ML	mg/kg dry	0.0091	0.00035	1	8260B	3/2/15 21:19	MSC	P5C0014
Isopropyl Ether	**0.030**	**mg/kg dry**	**0.0091**	**0.00037**	**1**	**8260B**	**3/2/15 21:19**	**MSC**	**P5C0014**
Isopropylbenzene (Cumene)	**0.11**	**mg/kg dry**	**0.0091**	**0.00054**	**1**	**8260B**	**3/2/15 21:19**	**MSC**	**P5C0014**
m,p-Xylenes	See 8260ML	mg/kg dry	0.018	0.00084	1	8260B	3/2/15 21:19	MSC	P5C0014
Methyl Butyl Ketone (2-Hexanone)	**0.24**	**mg/kg dry**	**0.091**	**0.00082**	**1**	**8260B**	**3/2/15 21:19**	**MSC**	**P5C0014**
Methyl Ethyl Ketone (2-Butanone)	See 8260ML	mg/kg dry	0.18	0.00082	1	8260B	3/2/15 21:19	MSC	P5C0014
Methyl Isobutyl Ketone	**0.061 J**	**mg/kg dry**	**0.091**	**0.00078**	**1**	**8260B**	**3/2/15 21:19**	**MSC**	**P5C0014**
Methylene Chloride	BRL	mg/kg dry	0.0091	0.00051	1	8260B	3/2/15 21:19	MSC	P5C0014
Methyl-tert-Butyl Ether	**0.081**	**mg/kg dry**	**0.018**	**0.00029**	**1**	**8260B**	**3/2/15 21:19**	**MSC**	**P5C0014**
Naphthalene	See 8260ML	mg/kg dry	0.018	0.00029	1	8260B	3/2/15 21:19	MSC	P5C0014
n-Butylbenzene	**0.11**	**mg/kg dry**	**0.0091**	**0.00046**	**1**	**8260B**	**3/2/15 21:19**	**MSC**	**P5C0014**
n-Propylbenzene	**0.31**	**mg/kg dry**	**0.0091**	**0.00054**	**1**	**8260B**	**3/2/15 21:19**	**MSC**	**P5C0014**
o-Xylene	See 8260ML	mg/kg dry	0.0091	0.00037	1	8260B	3/2/15 21:19	MSC	P5C0014
sec-Butylbenzene	**0.044**	**mg/kg dry**	**0.0091**	**0.00044**	**1**	**8260B**	**3/2/15 21:19**	**MSC**	**P5C0014**
Styrene	BRL	mg/kg dry	0.0091	0.00055	1	8260B	3/2/15 21:19	MSC	P5C0014
tert-Amyl Alcohol	See 8260ML	mg/kg dry	0.73	0.0076	1	8260B	3/2/15 21:19	MSC	P5C0014
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.18	0.00078	1	8260B	3/2/15 21:19	MSC	P5C0014
tert-Butyl Alcohol	**0.51**	**mg/kg dry**	**0.36**	**0.00064**	**1**	**8260B**	**3/2/15 21:19**	**MSC**	**P5C0014**
tert-Butyl Formate	BRL CCV	mg/kg dry	0.73	0.00091	1	8260B	3/2/15 21:19	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0091	0.00031	1	8260B	3/2/15 21:19	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.18	0.00064	1	8260B	3/2/15 21:19	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0091	0.00043	1	8260B	3/2/15 21:19	MSC	P5C0014
Toluene	See 8260ML	mg/kg dry	0.0091	0.00052	1	8260B	3/2/15 21:19	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0091	0.00054	1	8260B	3/2/15 21:19	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0091	0.00048	1	8260B	3/2/15 21:19	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0091	0.00059	1	8260B	3/2/15 21:19	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0091	0.00059	1	8260B	3/2/15 21:19	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.046	0.0012	1	8260B	3/2/15 21:19	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0091	0.00044	1	8260B	3/2/15 21:19	MSC	P5C0014
Xylenes, total	See 8260ML	mg/kg dry	0.027	0.0017	1	8260B	3/2/15 21:19	MSC	P5C0014

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*96 %*	*70-130*
Dibromofluoromethane	*89 %*	*84-123*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-1 (8-10)
Prism Sample ID: 5030006-04
Prism Work Order: 5030006
Time Collected: 02/27/15 14:05
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Toluene-d8			*96 %*		*76-129*	
Volatile Organic Compounds by GC/MS (Medium Level)									
1,2,4-Trimethylbenzene	**5.4**	**mg/kg dry**	**0.41**	**0.092**	**50**	**8260B**	**3/3/15 13:35**	**MSC**	**P5C0060**
1,3,5-Trimethylbenzene	**1.6**	**mg/kg dry**	**0.41**	**0.10**	**50**	**8260B**	**3/3/15 13:35**	**MSC**	**P5C0060**
Benzene	**1.5**	**mg/kg dry**	**0.41**	**0.092**	**50**	**8260B**	**3/3/15 13:35**	**MSC**	**P5C0060**
Ethylbenzene	**1.6**	**mg/kg dry**	**0.41**	**0.094**	**50**	**8260B**	**3/3/15 13:35**	**MSC**	**P5C0060**
m,p-Xylenes	**5.9**	**mg/kg dry**	**0.83**	**0.20**	**50**	**8260B**	**3/3/15 13:35**	**MSC**	**P5C0060**
Methyl Ethyl Ketone (2-Butanone)	**0.23 J**	**mg/kg dry**	**1.7**	**0.068**	**50**	**8260B**	**3/3/15 13:35**	**MSC**	**P5C0060**
Naphthalene	**0.93**	**mg/kg dry**	**0.83**	**0.063**	**50**	**8260B**	**3/3/15 13:35**	**MSC**	**P5C0060**
o-Xylene	**2.5**	**mg/kg dry**	**0.41**	**0.091**	**50**	**8260B**	**3/3/15 13:35**	**MSC**	**P5C0060**
tert-Amyl Alcohol	**4.3 J**	**mg/kg dry**	**33**	**0.34**	**50**	**8260B**	**3/3/15 13:35**	**MSC**	**P5C0060**
Toluene	**5.3**	**mg/kg dry**	**0.41**	**0.088**	**50**	**8260B**	**3/3/15 13:35**	**MSC**	**P5C0060**
Xylenes, total	**8.4**	**mg/kg dry**	**1.2**	**0.29**	**50**	**8260B**	**3/3/15 13:35**	**MSC**	**P5C0060**

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*190 %*	*70-130*	*SR*
Dibromofluoromethane	*146 %*	*70-130*	*SR*
Toluene-d8	*161 %*	*70-130*	*SR*

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-2
Prism Sample ID: 5030006-05
Prism Work Order: 5030006
Time Collected: 02/27/15 12:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.0	1.0	50	*8015C	3/4/15 23:43	ANG	P5C0069
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*98 %*		*50-137*	
General Chemistry Parameters									
% Solids	**85.1**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00041	1	8260B	3/2/15 14:55	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0050	0.00024	1	8260B	3/2/15 14:55	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0050	0.00034	1	8260B	3/2/15 14:55	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0050	0.00045	1	8260B	3/2/15 14:55	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0050	0.00014	1	8260B	3/2/15 14:55	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00022	1	8260B	3/2/15 14:55	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00028	1	8260B	3/2/15 14:55	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.00029	1	8260B	3/2/15 14:55	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0050	0.00064	1	8260B	3/2/15 14:55	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0050	0.00037	1	8260B	3/2/15 14:55	MSC	P5C0014
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.00038	1	8260B	3/2/15 14:55	MSC	P5C0014
1,2-Dibromoethane	BRL	mg/kg dry	0.0050	0.00020	1	8260B	3/2/15 14:55	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	3/2/15 14:55	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0050	0.00030	1	8260B	3/2/15 14:55	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00031	1	8260B	3/2/15 14:55	MSC	P5C0014
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0050	0.00038	1	8260B	3/2/15 14:55	MSC	P5C0014
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00033	1	8260B	3/2/15 14:55	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0050	0.00025	1	8260B	3/2/15 14:55	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0050	0.00020	1	8260B	3/2/15 14:55	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0050	0.00024	1	8260B	3/2/15 14:55	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0050	0.00026	1	8260B	3/2/15 14:55	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	3/2/15 14:55	MSC	P5C0014
4-Isopropyltoluene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	3/2/15 14:55	MSC	P5C0014
Acetone	BRL	mg/kg dry	0.050	0.0012	1	8260B	3/2/15 14:55	MSC	P5C0014
Benzene	BRL	mg/kg dry	0.0030	0.00029	1	8260B	3/2/15 14:55	MSC	P5C0014
Bromobenzene	BRL	mg/kg dry	0.0050	0.00042	1	8260B	3/2/15 14:55	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0050	0.00028	1	8260B	3/2/15 14:55	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0050	0.00028	1	8260B	3/2/15 14:55	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0050	0.00057	1	8260B	3/2/15 14:55	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.010	0.00062	1	8260B	3/2/15 14:55	MSC	P5C0014
Carbon Tetrachloride	BRL	mg/kg dry	0.0050	0.00025	1	8260B	3/2/15 14:55	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0050	0.00027	1	8260B	3/2/15 14:55	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.010	0.00042	1	8260B	3/2/15 14:55	MSC	P5C0014
Chloroform	BRL	mg/kg dry	0.0050	0.00036	1	8260B	3/2/15 14:55	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0050	0.00034	1	8260B	3/2/15 14:55	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-2
Prism Sample ID: 5030006-05
Prism Work Order: 5030006
Time Collected: 02/27/15 12:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00021	1	8260B	3/2/15 14:55	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00017	1	8260B	3/2/15 14:55	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0050	0.00021	1	8260B	3/2/15 14:55	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0050	0.00023	1	8260B	3/2/15 14:55	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.25	0.10	1	8260B	3/2/15 14:55	MSC	P5C0014
Ethylbenzene	BRL	mg/kg dry	0.0050	0.00019	1	8260B	3/2/15 14:55	MSC	P5C0014
Isopropyl Ether	BRL	mg/kg dry	0.0050	0.00021	1	8260B	3/2/15 14:55	MSC	P5C0014
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0050	0.00030	1	8260B	3/2/15 14:55	MSC	P5C0014
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00046	1	8260B	3/2/15 14:55	MSC	P5C0014
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.050	0.00045	1	8260B	3/2/15 14:55	MSC	P5C0014
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00045	1	8260B	3/2/15 14:55	MSC	P5C0014
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.050	0.00043	1	8260B	3/2/15 14:55	MSC	P5C0014
Methylene Chloride	BRL	mg/kg dry	0.0050	0.00028	1	8260B	3/2/15 14:55	MSC	P5C0014
Methyl-tert-Butyl Ether	**0.0059 J**	**mg/kg dry**	**0.010**	**0.00016**	**1**	**8260B**	**3/2/15 14:55**	**MSC**	**P5C0014**
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	8260B	3/2/15 14:55	MSC	P5C0014
n-Butylbenzene	BRL	mg/kg dry	0.0050	0.00026	1	8260B	3/2/15 14:55	MSC	P5C0014
n-Propylbenzene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	3/2/15 14:55	MSC	P5C0014
o-Xylene	BRL	mg/kg dry	0.0050	0.00021	1	8260B	3/2/15 14:55	MSC	P5C0014
sec-Butylbenzene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	3/2/15 14:55	MSC	P5C0014
Styrene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	3/2/15 14:55	MSC	P5C0014
tert-Amyl Alcohol	**0.032 J**	**mg/kg dry**	**0.40**	**0.0042**	**1**	**8260B**	**3/2/15 14:55**	**MSC**	**P5C0014**
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.10	0.00043	1	8260B	3/2/15 14:55	MSC	P5C0014
tert-Butyl Alcohol	**0.012 J**	**mg/kg dry**	**0.20**	**0.00035**	**1**	**8260B**	**3/2/15 14:55**	**MSC**	**P5C0014**
tert-Butyl Formate	BRL CCV	mg/kg dry	0.40	0.00050	1	8260B	3/2/15 14:55	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0050	0.00017	1	8260B	3/2/15 14:55	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.10	0.00035	1	8260B	3/2/15 14:55	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0050	0.00024	1	8260B	3/2/15 14:55	MSC	P5C0014
Toluene	BRL	mg/kg dry	0.0050	0.00029	1	8260B	3/2/15 14:55	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0050	0.00030	1	8260B	3/2/15 14:55	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0050	0.00026	1	8260B	3/2/15 14:55	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0050	0.00033	1	8260B	3/2/15 14:55	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0050	0.00032	1	8260B	3/2/15 14:55	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.025	0.00069	1	8260B	3/2/15 14:55	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0050	0.00024	1	8260B	3/2/15 14:55	MSC	P5C0014
Xylenes, total	BRL	mg/kg dry	0.015	0.00094	1	8260B	3/2/15 14:55	MSC	P5C0014

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*116 %*	*70-130*
Dibromofluoromethane	*117 %*	*84-123*
Toluene-d8	*115 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-3
Prism Sample ID: 5030006-06
Prism Work Order: 5030006
Time Collected: 02/27/15 11:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.7	1.2	50	*8015C	3/5/15 0:11	ANG	P5C0069
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*125 %*		*50-137*	
General Chemistry Parameters									
% Solids	**80.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0062	0.00051	1	8260B	3/2/15 15:19	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 15:19	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0062	0.00042	1	8260B	3/2/15 15:19	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0062	0.00055	1	8260B	3/2/15 15:19	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0062	0.00017	1	8260B	3/2/15 15:19	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00027	1	8260B	3/2/15 15:19	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00034	1	8260B	3/2/15 15:19	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0062	0.00035	1	8260B	3/2/15 15:19	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0062	0.00079	1	8260B	3/2/15 15:19	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0062	0.00046	1	8260B	3/2/15 15:19	MSC	P5C0014
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0062	0.00047	1	8260B	3/2/15 15:19	MSC	P5C0014
1,2-Dibromoethane	BRL	mg/kg dry	0.0062	0.00025	1	8260B	3/2/15 15:19	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00029	1	8260B	3/2/15 15:19	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0062	0.00037	1	8260B	3/2/15 15:19	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0062	0.00038	1	8260B	3/2/15 15:19	MSC	P5C0014
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0062	0.00047	1	8260B	3/2/15 15:19	MSC	P5C0014
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00041	1	8260B	3/2/15 15:19	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0062	0.00031	1	8260B	3/2/15 15:19	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00024	1	8260B	3/2/15 15:19	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 15:19	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0062	0.00032	1	8260B	3/2/15 15:19	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0062	0.00037	1	8260B	3/2/15 15:19	MSC	P5C0014
4-Isopropyltoluene	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 15:19	MSC	P5C0014
Acetone	BRL	mg/kg dry	0.062	0.0015	1	8260B	3/2/15 15:19	MSC	P5C0014
Benzene	BRL	mg/kg dry	0.0037	0.00036	1	8260B	3/2/15 15:19	MSC	P5C0014
Bromobenzene	BRL	mg/kg dry	0.0062	0.00052	1	8260B	3/2/15 15:19	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0062	0.00034	1	8260B	3/2/15 15:19	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0062	0.00035	1	8260B	3/2/15 15:19	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0062	0.00070	1	8260B	3/2/15 15:19	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.012	0.00077	1	8260B	3/2/15 15:19	MSC	P5C0014
Carbon Tetrachloride	BRL	mg/kg dry	0.0062	0.00031	1	8260B	3/2/15 15:19	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0062	0.00033	1	8260B	3/2/15 15:19	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.012	0.00052	1	8260B	3/2/15 15:19	MSC	P5C0014
Chloroform	BRL	mg/kg dry	0.0062	0.00045	1	8260B	3/2/15 15:19	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0062	0.00042	1	8260B	3/2/15 15:19	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-3
Prism Sample ID: 5030006-06
Prism Work Order: 5030006
Time Collected: 02/27/15 11:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00026	1	8260B	3/2/15 15:19	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00021	1	8260B	3/2/15 15:19	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0062	0.00026	1	8260B	3/2/15 15:19	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0062	0.00028	1	8260B	3/2/15 15:19	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.31	0.12	1	8260B	3/2/15 15:19	MSC	P5C0014
Ethylbenzene	BRL	mg/kg dry	0.0062	0.00024	1	8260B	3/2/15 15:19	MSC	P5C0014
Isopropyl Ether	BRL	mg/kg dry	0.0062	0.00025	1	8260B	3/2/15 15:19	MSC	P5C0014
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0062	0.00037	1	8260B	3/2/15 15:19	MSC	P5C0014
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00057	1	8260B	3/2/15 15:19	MSC	P5C0014
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.062	0.00056	1	8260B	3/2/15 15:19	MSC	P5C0014
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00056	1	8260B	3/2/15 15:19	MSC	P5C0014
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.062	0.00053	1	8260B	3/2/15 15:19	MSC	P5C0014
Methylene Chloride	BRL	mg/kg dry	0.0062	0.00035	1	8260B	3/2/15 15:19	MSC	P5C0014
Methyl-tert-Butyl Ether	**0.0057 J**	**mg/kg dry**	**0.012**	**0.00020**	**1**	**8260B**	**3/2/15 15:19**	**MSC**	**P5C0014**
Naphthalene	BRL	mg/kg dry	0.012	0.00020	1	8260B	3/2/15 15:19	MSC	P5C0014
n-Butylbenzene	BRL	mg/kg dry	0.0062	0.00032	1	8260B	3/2/15 15:19	MSC	P5C0014
n-Propylbenzene	BRL	mg/kg dry	0.0062	0.00037	1	8260B	3/2/15 15:19	MSC	P5C0014
o-Xylene	BRL	mg/kg dry	0.0062	0.00025	1	8260B	3/2/15 15:19	MSC	P5C0014
sec-Butylbenzene	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 15:19	MSC	P5C0014
Styrene	BRL	mg/kg dry	0.0062	0.00037	1	8260B	3/2/15 15:19	MSC	P5C0014
tert-Amyl Alcohol	BRL	mg/kg dry	0.50	0.0051	1	8260B	3/2/15 15:19	MSC	P5C0014
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.12	0.00053	1	8260B	3/2/15 15:19	MSC	P5C0014
tert-Butyl Alcohol	**0.0056 J**	**mg/kg dry**	**0.25**	**0.00044**	**1**	**8260B**	**3/2/15 15:19**	**MSC**	**P5C0014**
tert-Butyl Formate	BRL CCV	mg/kg dry	0.50	0.00062	1	8260B	3/2/15 15:19	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0062	0.00021	1	8260B	3/2/15 15:19	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.12	0.00044	1	8260B	3/2/15 15:19	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 15:19	MSC	P5C0014
Toluene	BRL	mg/kg dry	0.0062	0.00036	1	8260B	3/2/15 15:19	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00037	1	8260B	3/2/15 15:19	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00033	1	8260B	3/2/15 15:19	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0062	0.00040	1	8260B	3/2/15 15:19	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0062	0.00040	1	8260B	3/2/15 15:19	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.031	0.00085	1	8260B	3/2/15 15:19	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 15:19	MSC	P5C0014
Xylenes, total	BRL	mg/kg dry	0.019	0.0012	1	8260B	3/2/15 15:19	MSC	P5C0014

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*117 %*	*70-130*
Dibromofluoromethane	*114 %*	*84-123*
Toluene-d8	*116 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-4 (4-6)
Prism Sample ID: 5030006-07
Prism Work Order: 5030006
Time Collected: 02/27/15 10:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.7	1.3	1	*8015C	3/6/15 0:46	JMV	P5C0091
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*62 %*		*49-124*	
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	0.71	1	MADEP EPH	3/5/15 21:12	KC	P5C0037
C19-C36 Aliphatics	**10 J**	**mg/kg dry**	**12**	**2.9**	**1**	**MADEP EPH**	**3/5/15 21:12**	**KC**	**P5C0037**
C11-C22 Aromatics	BRL	mg/kg dry	12	2.2	1	MADEP EPH	3/5/15 21:12	KC	P5C0037
			Surrogate			Recovery		Control Limits	
			1-Chlorooctadecane			*89 %*		*40-140*	
			o-Terphenyl			*88 %*		*40-140*	
			2-Fluorobiphenyl			*90 %*		*40-140*	
			2-Bromonaphthalene			*85 %*		*40-140*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	4.8	1.0	50	*8015C	3/5/15 0:39	ANG	P5C0069
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*135 %*		*50-137*	
General Chemistry Parameters									
% Solids	**80.6**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.41	0.064	1	8270D	3/4/15 12:59	KC	P5C0033
1,2-Dichlorobenzene	BRL	mg/kg dry	0.41	0.062	1	8270D	3/4/15 12:59	KC	P5C0033
1,3-Dichlorobenzene	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 12:59	KC	P5C0033
1,4-Dichlorobenzene	BRL	mg/kg dry	0.41	0.060	1	8270D	3/4/15 12:59	KC	P5C0033
1-Methylnaphthalene	BRL	mg/kg dry	0.41	0.079	1	8270D	3/4/15 12:59	KC	P5C0033
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.41	0.077	1	8270D	3/4/15 12:59	KC	P5C0033
2,4-Dichlorophenol	BRL	mg/kg dry	0.41	0.079	1	8270D	3/4/15 12:59	KC	P5C0033
2,4-Dimethylphenol	BRL	mg/kg dry	0.41	0.063	1	8270D	3/4/15 12:59	KC	P5C0033
2,4-Dinitrophenol	BRL	mg/kg dry	0.41	0.057	1	8270D	3/4/15 12:59	KC	P5C0033
2,4-Dinitrotoluene	BRL	mg/kg dry	0.41	0.050	1	8270D	3/4/15 12:59	KC	P5C0033
2,6-Dinitrotoluene	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 12:59	KC	P5C0033
2-Chloronaphthalene	BRL	mg/kg dry	0.41	0.059	1	8270D	3/4/15 12:59	KC	P5C0033
2-Chlorophenol	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 12:59	KC	P5C0033
2-Methylnaphthalene	BRL	mg/kg dry	0.41	0.065	1	8270D	3/4/15 12:59	KC	P5C0033
2-Methylphenol	BRL	mg/kg dry	0.41	0.052	1	8270D	3/4/15 12:59	KC	P5C0033
2-Nitrophenol	BRL	mg/kg dry	0.41	0.075	1	8270D	3/4/15 12:59	KC	P5C0033
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.41	0.081	1	8270D	3/4/15 12:59	KC	P5C0033
3/4-Methylphenol	BRL	mg/kg dry	0.41	0.050	1	8270D	3/4/15 12:59	KC	P5C0033
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.41	0.061	1	8270D	3/4/15 12:59	KC	P5C0033
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.41	0.070	1	8270D	3/4/15 12:59	KC	P5C0033
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.41	0.057	1	8270D	3/4/15 12:59	KC	P5C0033

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-4 (4-6)
Prism Sample ID: 5030006-07
Prism Work Order: 5030006
Time Collected: 02/27/15 10:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chloroaniline	BRL	mg/kg dry	0.41	0.049	1	8270D	3/4/15 12:59	KC	P5C0033
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.41	0.053	1	8270D	3/4/15 12:59	KC	P5C0033
4-Nitrophenol	BRL	mg/kg dry	0.41	0.063	1	8270D	3/4/15 12:59	KC	P5C0033
Acenaphthene	BRL	mg/kg dry	0.41	0.056	1	8270D	3/4/15 12:59	KC	P5C0033
Acenaphthylene	BRL	mg/kg dry	0.41	0.059	1	8270D	3/4/15 12:59	KC	P5C0033
Anthracene	BRL	mg/kg dry	0.41	0.066	1	8270D	3/4/15 12:59	KC	P5C0033
Azobenzene	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 12:59	KC	P5C0033
Benzo(a)anthracene	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 12:59	KC	P5C0033
Benzo(a)pyrene	BRL	mg/kg dry	0.41	0.044	1	8270D	3/4/15 12:59	KC	P5C0033
Benzo(b)fluoranthene	BRL	mg/kg dry	0.41	0.047	1	8270D	3/4/15 12:59	KC	P5C0033
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.41	0.045	1	8270D	3/4/15 12:59	KC	P5C0033
Benzo(k)fluoranthene	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 12:59	KC	P5C0033
Benzoic Acid	BRL CCV	mg/kg dry	0.41	0.034	1	8270D	3/4/15 12:59	KC	P5C0033
Benzyl alcohol	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 12:59	KC	P5C0033
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.41	0.071	1	8270D	3/4/15 12:59	KC	P5C0033
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 12:59	KC	P5C0033
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.41	0.070	1	8270D	3/4/15 12:59	KC	P5C0033
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.41	0.061	1	8270D	3/4/15 12:59	KC	P5C0033
Butyl benzyl phthalate	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 12:59	KC	P5C0033
Chrysene	BRL	mg/kg dry	0.41	0.052	1	8270D	3/4/15 12:59	KC	P5C0033
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.41	0.050	1	8270D	3/4/15 12:59	KC	P5C0033
Dibenzofuran	BRL	mg/kg dry	0.41	0.062	1	8270D	3/4/15 12:59	KC	P5C0033
Diethyl phthalate	BRL	mg/kg dry	0.41	0.056	1	8270D	3/4/15 12:59	KC	P5C0033
Dimethyl phthalate	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 12:59	KC	P5C0033
Di-n-butyl phthalate	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 12:59	KC	P5C0033
Di-n-octyl phthalate	BRL	mg/kg dry	0.41	0.050	1	8270D	3/4/15 12:59	KC	P5C0033
Fluoranthene	BRL	mg/kg dry	0.41	0.052	1	8270D	3/4/15 12:59	KC	P5C0033
Fluorene	BRL	mg/kg dry	0.41	0.059	1	8270D	3/4/15 12:59	KC	P5C0033
Hexachlorobenzene	BRL	mg/kg dry	0.41	0.065	1	8270D	3/4/15 12:59	KC	P5C0033
Hexachlorobutadiene	BRL	mg/kg dry	0.41	0.074	1	8270D	3/4/15 12:59	KC	P5C0033
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.41	0.073	1	8270D	3/4/15 12:59	KC	P5C0033
Hexachloroethane	BRL	mg/kg dry	0.41	0.069	1	8270D	3/4/15 12:59	KC	P5C0033
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.41	0.047	1	8270D	3/4/15 12:59	KC	P5C0033
Isophorone	BRL	mg/kg dry	0.41	0.055	1	8270D	3/4/15 12:59	KC	P5C0033
Naphthalene	BRL	mg/kg dry	0.41	0.066	1	8270D	3/4/15 12:59	KC	P5C0033
Nitrobenzene	BRL	mg/kg dry	0.41	0.058	1	8270D	3/4/15 12:59	KC	P5C0033
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.41	0.064	1	8270D	3/4/15 12:59	KC	P5C0033
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.41	0.062	1	8270D	3/4/15 12:59	KC	P5C0033
Pentachlorophenol	BRL	mg/kg dry	0.41	0.048	1	8270D	3/4/15 12:59	KC	P5C0033
Phenanthrene	BRL	mg/kg dry	0.41	0.053	1	8270D	3/4/15 12:59	KC	P5C0033
Phenol	BRL	mg/kg dry	0.41	0.060	1	8270D	3/4/15 12:59	KC	P5C0033
Pyrene	BRL	mg/kg dry	0.41	0.054	1	8270D	3/4/15 12:59	KC	P5C0033

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-4 (4-6)
Prism Sample ID: 5030006-07
Prism Work Order: 5030006
Time Collected: 02/27/15 10:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2,4,6-Tribromophenol			*98 %*		*39-132*	
			2-Fluorobiphenyl			*100 %*		*44-115*	
			2-Fluorophenol			*95 %*		*35-115*	
			Nitrobenzene-d5			*90 %*		*37-122*	
			Phenol-d5			*90 %*		*34-121*	
			Terphenyl-d14			*115 %*		*54-127*	
Total Metals									
Chromium	**36**	**mg/kg dry**	**0.31**	**0.051**	**1**	***6010C**	**3/3/15 21:37**	**BGM**	**P5C0024**
Lead	**11**	**mg/kg dry**	**0.31**	**0.047**	**1**	***6010C**	**3/3/15 21:37**	**BGM**	**P5C0024**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0057	0.00047	1	8260B	3/2/15 15:43	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0057	0.00027	1	8260B	3/2/15 15:43	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0057	0.00038	1	8260B	3/2/15 15:43	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0057	0.00050	1	8260B	3/2/15 15:43	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0057	0.00016	1	8260B	3/2/15 15:43	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0057	0.00025	1	8260B	3/2/15 15:43	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00031	1	8260B	3/2/15 15:43	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0057	0.00032	1	8260B	3/2/15 15:43	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0057	0.00072	1	8260B	3/2/15 15:43	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0057	0.00042	1	8260B	3/2/15 15:43	MSC	P5C0014
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0057	0.00043	1	8260B	3/2/15 15:43	MSC	P5C0014
1,2-Dibromoethane	BRL	mg/kg dry	0.0057	0.00023	1	8260B	3/2/15 15:43	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	3/2/15 15:43	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 15:43	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0057	0.00035	1	8260B	3/2/15 15:43	MSC	P5C0014
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0057	0.00043	1	8260B	3/2/15 15:43	MSC	P5C0014
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00038	1	8260B	3/2/15 15:43	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0057	0.00028	1	8260B	3/2/15 15:43	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00022	1	8260B	3/2/15 15:43	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0057	0.00027	1	8260B	3/2/15 15:43	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0057	0.00029	1	8260B	3/2/15 15:43	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 15:43	MSC	P5C0014
4-Isopropyltoluene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	3/2/15 15:43	MSC	P5C0014
Acetone	BRL	mg/kg dry	0.057	0.0014	1	8260B	3/2/15 15:43	MSC	P5C0014
Benzene	BRL	mg/kg dry	0.0034	0.00033	1	8260B	3/2/15 15:43	MSC	P5C0014
Bromobenzene	BRL	mg/kg dry	0.0057	0.00047	1	8260B	3/2/15 15:43	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0057	0.00031	1	8260B	3/2/15 15:43	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0057	0.00032	1	8260B	3/2/15 15:43	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0057	0.00064	1	8260B	3/2/15 15:43	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.011	0.00070	1	8260B	3/2/15 15:43	MSC	P5C0014
Carbon Tetrachloride	BRL	mg/kg dry	0.0057	0.00028	1	8260B	3/2/15 15:43	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0057	0.00030	1	8260B	3/2/15 15:43	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.011	0.00047	1	8260B	3/2/15 15:43	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-4 (4-6)
Prism Sample ID: 5030006-07
Prism Work Order: 5030006
Time Collected: 02/27/15 10:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	mg/kg dry	0.0057	0.00041	1	8260B	3/2/15 15:43	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0057	0.00038	1	8260B	3/2/15 15:43	MSC	P5C0014
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0057	0.00024	1	8260B	3/2/15 15:43	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00019	1	8260B	3/2/15 15:43	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0057	0.00023	1	8260B	3/2/15 15:43	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0057	0.00026	1	8260B	3/2/15 15:43	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.28	0.11	1	8260B	3/2/15 15:43	MSC	P5C0014
Ethylbenzene	BRL	mg/kg dry	0.0057	0.00022	1	8260B	3/2/15 15:43	MSC	P5C0014
Isopropyl Ether	BRL	mg/kg dry	0.0057	0.00023	1	8260B	3/2/15 15:43	MSC	P5C0014
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 15:43	MSC	P5C0014
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00052	1	8260B	3/2/15 15:43	MSC	P5C0014
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.057	0.00051	1	8260B	3/2/15 15:43	MSC	P5C0014
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00051	1	8260B	3/2/15 15:43	MSC	P5C0014
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.057	0.00048	1	8260B	3/2/15 15:43	MSC	P5C0014
Methylene Chloride	BRL	mg/kg dry	0.0057	0.00032	1	8260B	3/2/15 15:43	MSC	P5C0014
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00018	1	8260B	3/2/15 15:43	MSC	P5C0014
Naphthalene	BRL	mg/kg dry	0.011	0.00018	1	8260B	3/2/15 15:43	MSC	P5C0014
n-Butylbenzene	BRL	mg/kg dry	0.0057	0.00029	1	8260B	3/2/15 15:43	MSC	P5C0014
n-Propylbenzene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 15:43	MSC	P5C0014
o-Xylene	BRL	mg/kg dry	0.0057	0.00023	1	8260B	3/2/15 15:43	MSC	P5C0014
sec-Butylbenzene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	3/2/15 15:43	MSC	P5C0014
Styrene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 15:43	MSC	P5C0014
tert-Amyl Alcohol	BRL	mg/kg dry	0.45	0.0047	1	8260B	3/2/15 15:43	MSC	P5C0014
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00048	1	8260B	3/2/15 15:43	MSC	P5C0014
tert-Butyl Alcohol	BRL	mg/kg dry	0.23	0.00040	1	8260B	3/2/15 15:43	MSC	P5C0014
tert-Butyl Formate	BRL CCV	mg/kg dry	0.45	0.00056	1	8260B	3/2/15 15:43	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0057	0.00019	1	8260B	3/2/15 15:43	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00040	1	8260B	3/2/15 15:43	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	3/2/15 15:43	MSC	P5C0014
Toluene	BRL	mg/kg dry	0.0057	0.00033	1	8260B	3/2/15 15:43	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 15:43	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00030	1	8260B	3/2/15 15:43	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0057	0.00037	1	8260B	3/2/15 15:43	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0057	0.00037	1	8260B	3/2/15 15:43	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.028	0.00078	1	8260B	3/2/15 15:43	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0057	0.00027	1	8260B	3/2/15 15:43	MSC	P5C0014
Xylenes, total	BRL	mg/kg dry	0.017	0.0011	1	8260B	3/2/15 15:43	MSC	P5C0014

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*126 %*	*70-130*	
Dibromofluoromethane	*126 %*	*84-123*	*SR*
Toluene-d8	*124 %*	*76-129*	

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.0	0.19	100	MADEP VPH	3/2/15 22:26	ANG	P5C0018

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-4 (4-6)
Prism Sample ID: 5030006-07
Prism Work Order: 5030006
Time Collected: 02/27/15 10:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
C9-C12 Aliphatics	BRL	mg/kg dry	5.0	0.46	100	MADEP VPH	3/2/15 22:26	ANG	P5C0018
C9-C10 Aromatics	BRL	mg/kg dry	5.0	0.044	100	MADEP VPH	3/2/15 22:26	ANG	P5C0018

Surrogate	Recovery	Control Limits	
2,5-Dibromotoluene (PID)	*129 %*	*70-130*	
2,5-Dibromotoluene (FID)	*133 %*	*70-130*	*SR*

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-4 (10-12)
Prism Sample ID: 5030006-08
Prism Work Order: 5030006
Time Collected: 02/27/15 10:05
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	9.3	1.3	1	*8015C	3/5/15 22:56	JMV	P5C0091
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*62 %*		*49-124*	
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	13	0.76	1	MADEP EPH	3/5/15 21:48	KC	P5C0037
C19-C36 Aliphatics	BRL	mg/kg dry	13	3.1	1	MADEP EPH	3/5/15 21:48	KC	P5C0037
C11-C22 Aromatics	BRL	mg/kg dry	13	2.4	1	MADEP EPH	3/5/15 21:48	KC	P5C0037
			Surrogate			Recovery		Control Limits	
			1-Chlorooctadecane			*77 %*		*40-140*	
			o-Terphenyl			*97 %*		*40-140*	
			2-Fluorobiphenyl			*100 %*		*40-140*	
			2-Bromonaphthalene			*85 %*		*40-140*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	5.7	1.2	50	*8015C	3/5/15 1:07	ANG	P5C0069
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*112 %*		*50-137*	
General Chemistry Parameters									
% Solids	**74.8**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.44	0.069	1	8270D	3/4/15 13:20	KC	P5C0033
1,2-Dichlorobenzene	BRL	mg/kg dry	0.44	0.067	1	8270D	3/4/15 13:20	KC	P5C0033
1,3-Dichlorobenzene	BRL	mg/kg dry	0.44	0.062	1	8270D	3/4/15 13:20	KC	P5C0033
1,4-Dichlorobenzene	BRL	mg/kg dry	0.44	0.064	1	8270D	3/4/15 13:20	KC	P5C0033
1-Methylnaphthalene	BRL	mg/kg dry	0.44	0.085	1	8270D	3/4/15 13:20	KC	P5C0033
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.44	0.083	1	8270D	3/4/15 13:20	KC	P5C0033
2,4-Dichlorophenol	BRL	mg/kg dry	0.44	0.085	1	8270D	3/4/15 13:20	KC	P5C0033
2,4-Dimethylphenol	BRL	mg/kg dry	0.44	0.068	1	8270D	3/4/15 13:20	KC	P5C0033
2,4-Dinitrophenol	BRL	mg/kg dry	0.44	0.062	1	8270D	3/4/15 13:20	KC	P5C0033
2,4-Dinitrotoluene	BRL	mg/kg dry	0.44	0.054	1	8270D	3/4/15 13:20	KC	P5C0033
2,6-Dinitrotoluene	BRL	mg/kg dry	0.44	0.059	1	8270D	3/4/15 13:20	KC	P5C0033
2-Chloronaphthalene	BRL	mg/kg dry	0.44	0.064	1	8270D	3/4/15 13:20	KC	P5C0033
2-Chlorophenol	BRL	mg/kg dry	0.44	0.062	1	8270D	3/4/15 13:20	KC	P5C0033
2-Methylnaphthalene	BRL	mg/kg dry	0.44	0.070	1	8270D	3/4/15 13:20	KC	P5C0033
2-Methylphenol	BRL	mg/kg dry	0.44	0.056	1	8270D	3/4/15 13:20	KC	P5C0033
2-Nitrophenol	BRL	mg/kg dry	0.44	0.080	1	8270D	3/4/15 13:20	KC	P5C0033
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.44	0.087	1	8270D	3/4/15 13:20	KC	P5C0033
3/4-Methylphenol	BRL	mg/kg dry	0.44	0.054	1	8270D	3/4/15 13:20	KC	P5C0033
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.44	0.066	1	8270D	3/4/15 13:20	KC	P5C0033
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.44	0.076	1	8270D	3/4/15 13:20	KC	P5C0033
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.44	0.062	1	8270D	3/4/15 13:20	KC	P5C0033

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-4 (10-12)
Prism Sample ID: 5030006-08
Prism Work Order: 5030006
Time Collected: 02/27/15 10:05
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
4-Chloroaniline	BRL	mg/kg dry	0.44	0.053	1	8270D	3/4/15 13:20	KC	P5C0033
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.44	0.057	1	8270D	3/4/15 13:20	KC	P5C0033
4-Nitrophenol	BRL	mg/kg dry	0.44	0.068	1	8270D	3/4/15 13:20	KC	P5C0033
Acenaphthene	BRL	mg/kg dry	0.44	0.060	1	8270D	3/4/15 13:20	KC	P5C0033
Acenaphthylene	BRL	mg/kg dry	0.44	0.064	1	8270D	3/4/15 13:20	KC	P5C0033
Anthracene	BRL	mg/kg dry	0.44	0.071	1	8270D	3/4/15 13:20	KC	P5C0033
Azobenzene	BRL	mg/kg dry	0.44	0.058	1	8270D	3/4/15 13:20	KC	P5C0033
Benzo(a)anthracene	BRL	mg/kg dry	0.44	0.058	1	8270D	3/4/15 13:20	KC	P5C0033
Benzo(a)pyrene	BRL	mg/kg dry	0.44	0.048	1	8270D	3/4/15 13:20	KC	P5C0033
Benzo(b)fluoranthene	BRL	mg/kg dry	0.44	0.051	1	8270D	3/4/15 13:20	KC	P5C0033
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.44	0.048	1	8270D	3/4/15 13:20	KC	P5C0033
Benzo(k)fluoranthene	BRL	mg/kg dry	0.44	0.058	1	8270D	3/4/15 13:20	KC	P5C0033
Benzoic Acid	BRL CCV	mg/kg dry	0.44	0.037	1	8270D	3/4/15 13:20	KC	P5C0033
Benzyl alcohol	BRL	mg/kg dry	0.44	0.058	1	8270D	3/4/15 13:20	KC	P5C0033
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.44	0.076	1	8270D	3/4/15 13:20	KC	P5C0033
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.44	0.062	1	8270D	3/4/15 13:20	KC	P5C0033
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.44	0.075	1	8270D	3/4/15 13:20	KC	P5C0033
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.44	0.065	1	8270D	3/4/15 13:20	KC	P5C0033
Butyl benzyl phthalate	BRL	mg/kg dry	0.44	0.063	1	8270D	3/4/15 13:20	KC	P5C0033
Chrysene	BRL	mg/kg dry	0.44	0.056	1	8270D	3/4/15 13:20	KC	P5C0033
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.44	0.054	1	8270D	3/4/15 13:20	KC	P5C0033
Dibenzofuran	BRL	mg/kg dry	0.44	0.067	1	8270D	3/4/15 13:20	KC	P5C0033
Diethyl phthalate	BRL	mg/kg dry	0.44	0.061	1	8270D	3/4/15 13:20	KC	P5C0033
Dimethyl phthalate	BRL	mg/kg dry	0.44	0.058	1	8270D	3/4/15 13:20	KC	P5C0033
Di-n-butyl phthalate	BRL	mg/kg dry	0.44	0.063	1	8270D	3/4/15 13:20	KC	P5C0033
Di-n-octyl phthalate	BRL	mg/kg dry	0.44	0.054	1	8270D	3/4/15 13:20	KC	P5C0033
Fluoranthene	BRL	mg/kg dry	0.44	0.056	1	8270D	3/4/15 13:20	KC	P5C0033
Fluorene	BRL	mg/kg dry	0.44	0.063	1	8270D	3/4/15 13:20	KC	P5C0033
Hexachlorobenzene	BRL	mg/kg dry	0.44	0.070	1	8270D	3/4/15 13:20	KC	P5C0033
Hexachlorobutadiene	BRL	mg/kg dry	0.44	0.079	1	8270D	3/4/15 13:20	KC	P5C0033
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.44	0.079	1	8270D	3/4/15 13:20	KC	P5C0033
Hexachloroethane	BRL	mg/kg dry	0.44	0.074	1	8270D	3/4/15 13:20	KC	P5C0033
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.44	0.051	1	8270D	3/4/15 13:20	KC	P5C0033
Isophorone	BRL	mg/kg dry	0.44	0.060	1	8270D	3/4/15 13:20	KC	P5C0033
Naphthalene	BRL	mg/kg dry	0.44	0.071	1	8270D	3/4/15 13:20	KC	P5C0033
Nitrobenzene	BRL	mg/kg dry	0.44	0.063	1	8270D	3/4/15 13:20	KC	P5C0033
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.44	0.069	1	8270D	3/4/15 13:20	KC	P5C0033
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.44	0.067	1	8270D	3/4/15 13:20	KC	P5C0033
Pentachlorophenol	BRL	mg/kg dry	0.44	0.052	1	8270D	3/4/15 13:20	KC	P5C0033
Phenanthrene	BRL	mg/kg dry	0.44	0.057	1	8270D	3/4/15 13:20	KC	P5C0033
Phenol	BRL	mg/kg dry	0.44	0.065	1	8270D	3/4/15 13:20	KC	P5C0033
Pyrene	BRL	mg/kg dry	0.44	0.058	1	8270D	3/4/15 13:20	KC	P5C0033

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-4 (10-12)
Prism Sample ID: 5030006-08
Prism Work Order: 5030006
Time Collected: 02/27/15 10:05
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2,4,6-Tribromophenol			*112 %*		*39-132*	
			2-Fluorobiphenyl			*115 %*		*44-115*	
			2-Fluorophenol			*109 %*		*35-115*	
			Nitrobenzene-d5			*103 %*		*37-122*	
			Phenol-d5			*99 %*		*34-121*	
			Terphenyl-d14			*125 %*		*54-127*	
Total Metals									
Chromium	**19**	**mg/kg dry**	**0.33**	**0.055**	**1**	***6010C**	**3/3/15 21:45**	**BGM**	**P5C0024**
Lead	**10**	**mg/kg dry**	**0.33**	**0.051**	**1**	***6010C**	**3/3/15 21:45**	**BGM**	**P5C0024**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0061	0.00050	1	8260B	3/2/15 16:07	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 16:07	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0061	0.00041	1	8260B	3/2/15 16:07	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0061	0.00054	1	8260B	3/2/15 16:07	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0061	0.00017	1	8260B	3/2/15 16:07	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00027	1	8260B	3/2/15 16:07	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00033	1	8260B	3/2/15 16:07	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0061	0.00035	1	8260B	3/2/15 16:07	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0061	0.00078	1	8260B	3/2/15 16:07	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0061	0.00045	1	8260B	3/2/15 16:07	MSC	P5C0014
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0061	0.00046	1	8260B	3/2/15 16:07	MSC	P5C0014
1,2-Dibromoethane	BRL	mg/kg dry	0.0061	0.00024	1	8260B	3/2/15 16:07	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 16:07	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0061	0.00036	1	8260B	3/2/15 16:07	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0061	0.00038	1	8260B	3/2/15 16:07	MSC	P5C0014
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0061	0.00046	1	8260B	3/2/15 16:07	MSC	P5C0014
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.00040	1	8260B	3/2/15 16:07	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0061	0.00031	1	8260B	3/2/15 16:07	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0061	0.00024	1	8260B	3/2/15 16:07	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 16:07	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0061	0.00031	1	8260B	3/2/15 16:07	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0061	0.00036	1	8260B	3/2/15 16:07	MSC	P5C0014
4-Isopropyltoluene	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 16:07	MSC	P5C0014
Acetone	BRL	mg/kg dry	0.061	0.0015	1	8260B	3/2/15 16:07	MSC	P5C0014
Benzene	BRL	mg/kg dry	0.0037	0.00035	1	8260B	3/2/15 16:07	MSC	P5C0014
Bromobenzene	BRL	mg/kg dry	0.0061	0.00051	1	8260B	3/2/15 16:07	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0061	0.00033	1	8260B	3/2/15 16:07	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0061	0.00034	1	8260B	3/2/15 16:07	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0061	0.00069	1	8260B	3/2/15 16:07	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.012	0.00075	1	8260B	3/2/15 16:07	MSC	P5C0014
Carbon Tetrachloride	BRL	mg/kg dry	0.0061	0.00030	1	8260B	3/2/15 16:07	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0061	0.00032	1	8260B	3/2/15 16:07	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.012	0.00051	1	8260B	3/2/15 16:07	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-4 (10-12)
Prism Sample ID: 5030006-08
Prism Work Order: 5030006
Time Collected: 02/27/15 10:05
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	mg/kg dry	0.0061	0.00044	1	8260B	3/2/15 16:07	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0061	0.00041	1	8260B	3/2/15 16:07	MSC	P5C0014
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00026	1	8260B	3/2/15 16:07	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00020	1	8260B	3/2/15 16:07	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0061	0.00025	1	8260B	3/2/15 16:07	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0061	0.00028	1	8260B	3/2/15 16:07	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.30	0.12	1	8260B	3/2/15 16:07	MSC	P5C0014
Ethylbenzene	BRL	mg/kg dry	0.0061	0.00023	1	8260B	3/2/15 16:07	MSC	P5C0014
Isopropyl Ether	BRL	mg/kg dry	0.0061	0.00025	1	8260B	3/2/15 16:07	MSC	P5C0014
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0061	0.00036	1	8260B	3/2/15 16:07	MSC	P5C0014
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00056	1	8260B	3/2/15 16:07	MSC	P5C0014
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.061	0.00055	1	8260B	3/2/15 16:07	MSC	P5C0014
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00055	1	8260B	3/2/15 16:07	MSC	P5C0014
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.061	0.00052	1	8260B	3/2/15 16:07	MSC	P5C0014
Methylene Chloride	BRL	mg/kg dry	0.0061	0.00034	1	8260B	3/2/15 16:07	MSC	P5C0014
Methyl-tert-Butyl Ether	**0.0044 J**	**mg/kg dry**	**0.012**	**0.00019**	**1**	**8260B**	**3/2/15 16:07**	**MSC**	**P5C0014**
Naphthalene	BRL	mg/kg dry	0.012	0.00019	1	8260B	3/2/15 16:07	MSC	P5C0014
n-Butylbenzene	BRL	mg/kg dry	0.0061	0.00031	1	8260B	3/2/15 16:07	MSC	P5C0014
n-Propylbenzene	BRL	mg/kg dry	0.0061	0.00036	1	8260B	3/2/15 16:07	MSC	P5C0014
o-Xylene	BRL	mg/kg dry	0.0061	0.00025	1	8260B	3/2/15 16:07	MSC	P5C0014
sec-Butylbenzene	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 16:07	MSC	P5C0014
Styrene	BRL	mg/kg dry	0.0061	0.00037	1	8260B	3/2/15 16:07	MSC	P5C0014
tert-Amyl Alcohol	BRL	mg/kg dry	0.49	0.0051	1	8260B	3/2/15 16:07	MSC	P5C0014
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.12	0.00052	1	8260B	3/2/15 16:07	MSC	P5C0014
tert-Butyl Alcohol	BRL	mg/kg dry	0.24	0.00043	1	8260B	3/2/15 16:07	MSC	P5C0014
tert-Butyl Formate	BRL CCV	mg/kg dry	0.49	0.00061	1	8260B	3/2/15 16:07	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0061	0.00021	1	8260B	3/2/15 16:07	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.12	0.00043	1	8260B	3/2/15 16:07	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 16:07	MSC	P5C0014
Toluene	BRL	mg/kg dry	0.0061	0.00035	1	8260B	3/2/15 16:07	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0061	0.00036	1	8260B	3/2/15 16:07	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0061	0.00032	1	8260B	3/2/15 16:07	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0061	0.00039	1	8260B	3/2/15 16:07	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0061	0.00039	1	8260B	3/2/15 16:07	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.030	0.00083	1	8260B	3/2/15 16:07	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0061	0.00029	1	8260B	3/2/15 16:07	MSC	P5C0014
Xylenes, total	BRL	mg/kg dry	0.018	0.0011	1	8260B	3/2/15 16:07	MSC	P5C0014

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*108 %*	*70-130*
Dibromofluoromethane	*107 %*	*84-123*
Toluene-d8	*105 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	6.7	0.26	100	MADEP VPH	3/2/15 22:58	ANG	P5C0018

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National TMW-4 (10-12)
Prism Sample ID: 5030006-08
Prism Work Order: 5030006
Time Collected: 02/27/15 10:05
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
C9-C12 Aliphatics	BRL	mg/kg dry	6.7	0.61	100	MADEP VPH	3/2/15 22:58	ANG	P5C0018
C9-C10 Aromatics	BRL	mg/kg dry	6.7	0.058	100	MADEP VPH	3/2/15 22:58	ANG	P5C0018

Surrogate	Recovery	Control Limits	
2,5-Dibromotoluene (PID)	*131 %*	*70-130*	*SR*
2,5-Dibromotoluene (FID)	*135 %*	*70-130*	*SR*

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National B1
Prism Sample ID: 5030006-09
Prism Work Order: 5030006
Time Collected: 02/27/15 15:15
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	13	0.72	1	MADEP EPH	3/5/15 22:25	KC	P5C0037
C19-C36 Aliphatics	BRL	mg/kg dry	13	2.9	1	MADEP EPH	3/5/15 22:25	KC	P5C0037
C11-C22 Aromatics	BRL	mg/kg dry	13	2.3	1	MADEP EPH	3/5/15 22:25	KC	P5C0037

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*85 %*	*40-140*
o-Terphenyl	*86 %*	*40-140*
2-Fluorobiphenyl	*88 %*	*40-140*
2-Bromonaphthalene	*78 %*	*40-140*

General Chemistry Parameters									
% Solids	**79.2**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.42	0.065	1	8270D	3/4/15 17:15	KC	P5C0033
1,2-Dichlorobenzene	BRL	mg/kg dry	0.42	0.063	1	8270D	3/4/15 17:15	KC	P5C0033
1,3-Dichlorobenzene	BRL	mg/kg dry	0.42	0.059	1	8270D	3/4/15 17:15	KC	P5C0033
1,4-Dichlorobenzene	BRL	mg/kg dry	0.42	0.061	1	8270D	3/4/15 17:15	KC	P5C0033
1-Methylnaphthalene	BRL	mg/kg dry	0.42	0.080	1	8270D	3/4/15 17:15	KC	P5C0033
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.42	0.078	1	8270D	3/4/15 17:15	KC	P5C0033
2,4-Dichlorophenol	BRL	mg/kg dry	0.42	0.080	1	8270D	3/4/15 17:15	KC	P5C0033
2,4-Dimethylphenol	BRL	mg/kg dry	0.42	0.064	1	8270D	3/4/15 17:15	KC	P5C0033
2,4-Dinitrophenol	BRL	mg/kg dry	0.42	0.058	1	8270D	3/4/15 17:15	KC	P5C0033
2,4-Dinitrotoluene	BRL	mg/kg dry	0.42	0.051	1	8270D	3/4/15 17:15	KC	P5C0033
2,6-Dinitrotoluene	BRL	mg/kg dry	0.42	0.055	1	8270D	3/4/15 17:15	KC	P5C0033
2-Chloronaphthalene	BRL	mg/kg dry	0.42	0.060	1	8270D	3/4/15 17:15	KC	P5C0033
2-Chlorophenol	BRL	mg/kg dry	0.42	0.059	1	8270D	3/4/15 17:15	KC	P5C0033
2-Methylnaphthalene	BRL	mg/kg dry	0.42	0.067	1	8270D	3/4/15 17:15	KC	P5C0033
2-Methylphenol	BRL	mg/kg dry	0.42	0.053	1	8270D	3/4/15 17:15	KC	P5C0033
2-Nitrophenol	BRL	mg/kg dry	0.42	0.076	1	8270D	3/4/15 17:15	KC	P5C0033
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.42	0.082	1	8270D	3/4/15 17:15	KC	P5C0033
3/4-Methylphenol	BRL	mg/kg dry	0.42	0.051	1	8270D	3/4/15 17:15	KC	P5C0033
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.42	0.063	1	8270D	3/4/15 17:15	KC	P5C0033
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.42	0.071	1	8270D	3/4/15 17:15	KC	P5C0033
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.42	0.058	1	8270D	3/4/15 17:15	KC	P5C0033
4-Chloroaniline	BRL	mg/kg dry	0.42	0.050	1	8270D	3/4/15 17:15	KC	P5C0033
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.42	0.054	1	8270D	3/4/15 17:15	KC	P5C0033
4-Nitrophenol	BRL	mg/kg dry	0.42	0.064	1	8270D	3/4/15 17:15	KC	P5C0033
Acenaphthene	BRL	mg/kg dry	0.42	0.057	1	8270D	3/4/15 17:15	KC	P5C0033
Acenaphthylene	BRL	mg/kg dry	0.42	0.060	1	8270D	3/4/15 17:15	KC	P5C0033
Anthracene	BRL	mg/kg dry	0.42	0.067	1	8270D	3/4/15 17:15	KC	P5C0033
Azobenzene	BRL	mg/kg dry	0.42	0.055	1	8270D	3/4/15 17:15	KC	P5C0033
Benzo(a)anthracene	BRL	mg/kg dry	0.42	0.054	1	8270D	3/4/15 17:15	KC	P5C0033
Benzo(a)pyrene	BRL	mg/kg dry	0.42	0.045	1	8270D	3/4/15 17:15	KC	P5C0033

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National B1
Prism Sample ID: 5030006-09
Prism Work Order: 5030006
Time Collected: 02/27/15 15:15
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.42	0.048	1	8270D	3/4/15 17:15	KC	P5C0033
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.42	0.046	1	8270D	3/4/15 17:15	KC	P5C0033
Benzo(k)fluoranthene	BRL	mg/kg dry	0.42	0.055	1	8270D	3/4/15 17:15	KC	P5C0033
Benzoic Acid	BRL CCV	mg/kg dry	0.42	0.035	1	8270D	3/4/15 17:15	KC	P5C0033
Benzyl alcohol	BRL	mg/kg dry	0.42	0.055	1	8270D	3/4/15 17:15	KC	P5C0033
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.42	0.072	1	8270D	3/4/15 17:15	KC	P5C0033
Bis(2-Chloroethyl)ether	BRL	mg/kg dry	0.42	0.059	1	8270D	3/4/15 17:15	KC	P5C0033
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.42	0.071	1	8270D	3/4/15 17:15	KC	P5C0033
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.42	0.062	1	8270D	3/4/15 17:15	KC	P5C0033
Butyl benzyl phthalate	BRL	mg/kg dry	0.42	0.059	1	8270D	3/4/15 17:15	KC	P5C0033
Chrysene	BRL	mg/kg dry	0.42	0.052	1	8270D	3/4/15 17:15	KC	P5C0033
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.42	0.051	1	8270D	3/4/15 17:15	KC	P5C0033
Dibenzofuran	BRL	mg/kg dry	0.42	0.063	1	8270D	3/4/15 17:15	KC	P5C0033
Diethyl phthalate	BRL	mg/kg dry	0.42	0.057	1	8270D	3/4/15 17:15	KC	P5C0033
Dimethyl phthalate	BRL	mg/kg dry	0.42	0.055	1	8270D	3/4/15 17:15	KC	P5C0033
Di-n-butyl phthalate	BRL	mg/kg dry	0.42	0.059	1	8270D	3/4/15 17:15	KC	P5C0033
Di-n-octyl phthalate	BRL	mg/kg dry	0.42	0.051	1	8270D	3/4/15 17:15	KC	P5C0033
Fluoranthene	BRL	mg/kg dry	0.42	0.053	1	8270D	3/4/15 17:15	KC	P5C0033
Fluorene	BRL	mg/kg dry	0.42	0.060	1	8270D	3/4/15 17:15	KC	P5C0033
Hexachlorobenzene	BRL	mg/kg dry	0.42	0.066	1	8270D	3/4/15 17:15	KC	P5C0033
Hexachlorobutadiene	BRL	mg/kg dry	0.42	0.075	1	8270D	3/4/15 17:15	KC	P5C0033
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.42	0.074	1	8270D	3/4/15 17:15	KC	P5C0033
Hexachloroethane	BRL	mg/kg dry	0.42	0.070	1	8270D	3/4/15 17:15	KC	P5C0033
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.42	0.048	1	8270D	3/4/15 17:15	KC	P5C0033
Isophorone	BRL	mg/kg dry	0.42	0.056	1	8270D	3/4/15 17:15	KC	P5C0033
Naphthalene	BRL	mg/kg dry	0.42	0.067	1	8270D	3/4/15 17:15	KC	P5C0033
Nitrobenzene	BRL	mg/kg dry	0.42	0.059	1	8270D	3/4/15 17:15	KC	P5C0033
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.42	0.066	1	8270D	3/4/15 17:15	KC	P5C0033
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.42	0.063	1	8270D	3/4/15 17:15	KC	P5C0033
Pentachlorophenol	BRL	mg/kg dry	0.42	0.049	1	8270D	3/4/15 17:15	KC	P5C0033
Phenanthrene	BRL	mg/kg dry	0.42	0.054	1	8270D	3/4/15 17:15	KC	P5C0033
Phenol	BRL	mg/kg dry	0.42	0.061	1	8270D	3/4/15 17:15	KC	P5C0033
Pyrene	BRL	mg/kg dry	0.42	0.055	1	8270D	3/4/15 17:15	KC	P5C0033

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*93 %*	*39-132*
2-Fluorobiphenyl	*95 %*	*44-115*
2-Fluorophenol	*90 %*	*35-115*
Nitrobenzene-d5	*88 %*	*37-122*
Phenol-d5	*85 %*	*34-121*
Terphenyl-d14	*106 %*	*54-127*

Total Metals

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chromium	**34**	**mg/kg dry**	**0.32**	**0.052**	**1**	***6010C**	**3/3/15 21:52**	**BGM**	**P5C0024**
Lead	**8.8**	**mg/kg dry**	**0.32**	**0.048**	**1**	***6010C**	**3/3/15 21:52**	**BGM**	**P5C0024**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National B1
Prism Sample ID: 5030006-09
Prism Work Order: 5030006
Time Collected: 02/27/15 15:15
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0057	0.00047	1	8260B	3/2/15 16:31	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0057	0.00028	1	8260B	3/2/15 16:31	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0057	0.00038	1	8260B	3/2/15 16:31	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0057	0.00050	1	8260B	3/2/15 16:31	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0057	0.00016	1	8260B	3/2/15 16:31	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0057	0.00025	1	8260B	3/2/15 16:31	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00031	1	8260B	3/2/15 16:31	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0057	0.00032	1	8260B	3/2/15 16:31	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0057	0.00073	1	8260B	3/2/15 16:31	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0057	0.00042	1	8260B	3/2/15 16:31	MSC	P5C0014
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0057	0.00043	1	8260B	3/2/15 16:31	MSC	P5C0014
1,2-Dibromoethane	BRL	mg/kg dry	0.0057	0.00023	1	8260B	3/2/15 16:31	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	3/2/15 16:31	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 16:31	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0057	0.00035	1	8260B	3/2/15 16:31	MSC	P5C0014
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0057	0.00043	1	8260B	3/2/15 16:31	MSC	P5C0014
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00038	1	8260B	3/2/15 16:31	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0057	0.00029	1	8260B	3/2/15 16:31	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0057	0.00022	1	8260B	3/2/15 16:31	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0057	0.00027	1	8260B	3/2/15 16:31	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0057	0.00029	1	8260B	3/2/15 16:31	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 16:31	MSC	P5C0014
4-Isopropyltoluene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	3/2/15 16:31	MSC	P5C0014
Acetone	BRL	mg/kg dry	0.057	0.0014	1	8260B	3/2/15 16:31	MSC	P5C0014
Benzene	BRL	mg/kg dry	0.0034	0.00033	1	8260B	3/2/15 16:31	MSC	P5C0014
Bromobenzene	BRL	mg/kg dry	0.0057	0.00047	1	8260B	3/2/15 16:31	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0057	0.00031	1	8260B	3/2/15 16:31	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0057	0.00032	1	8260B	3/2/15 16:31	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0057	0.00065	1	8260B	3/2/15 16:31	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.011	0.00070	1	8260B	3/2/15 16:31	MSC	P5C0014
Carbon Tetrachloride	BRL	mg/kg dry	0.0057	0.00028	1	8260B	3/2/15 16:31	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0057	0.00030	1	8260B	3/2/15 16:31	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.011	0.00047	1	8260B	3/2/15 16:31	MSC	P5C0014
Chloroform	BRL	mg/kg dry	0.0057	0.00041	1	8260B	3/2/15 16:31	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0057	0.00038	1	8260B	3/2/15 16:31	MSC	P5C0014
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0057	0.00024	1	8260B	3/2/15 16:31	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00019	1	8260B	3/2/15 16:31	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0057	0.00023	1	8260B	3/2/15 16:31	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0057	0.00026	1	8260B	3/2/15 16:31	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.28	0.11	1	8260B	3/2/15 16:31	MSC	P5C0014
Ethylbenzene	BRL	mg/kg dry	0.0057	0.00022	1	8260B	3/2/15 16:31	MSC	P5C0014
Isopropyl Ether	BRL	mg/kg dry	0.0057	0.00023	1	8260B	3/2/15 16:31	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National B1
Prism Sample ID: 5030006-09
Prism Work Order: 5030006
Time Collected: 02/27/15 15:15
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 16:31	MSC	P5C0014
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00052	1	8260B	3/2/15 16:31	MSC	P5C0014
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.057	0.00051	1	8260B	3/2/15 16:31	MSC	P5C0014
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00051	1	8260B	3/2/15 16:31	MSC	P5C0014
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.057	0.00048	1	8260B	3/2/15 16:31	MSC	P5C0014
Methylene Chloride	BRL	mg/kg dry	0.0057	0.00032	1	8260B	3/2/15 16:31	MSC	P5C0014
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00018	1	8260B	3/2/15 16:31	MSC	P5C0014
Naphthalene	BRL	mg/kg dry	0.011	0.00018	1	8260B	3/2/15 16:31	MSC	P5C0014
n-Butylbenzene	BRL	mg/kg dry	0.0057	0.00029	1	8260B	3/2/15 16:31	MSC	P5C0014
n-Propylbenzene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 16:31	MSC	P5C0014
o-Xylene	BRL	mg/kg dry	0.0057	0.00023	1	8260B	3/2/15 16:31	MSC	P5C0014
sec-Butylbenzene	BRL	mg/kg dry	0.0057	0.00028	1	8260B	3/2/15 16:31	MSC	P5C0014
Styrene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 16:31	MSC	P5C0014
tert-Amyl Alcohol	BRL	mg/kg dry	0.45	0.0047	1	8260B	3/2/15 16:31	MSC	P5C0014
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.11	0.00049	1	8260B	3/2/15 16:31	MSC	P5C0014
tert-Butyl Alcohol	BRL	mg/kg dry	0.23	0.00040	1	8260B	3/2/15 16:31	MSC	P5C0014
tert-Butyl Formate	BRL CCV	mg/kg dry	0.45	0.00057	1	8260B	3/2/15 16:31	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0057	0.00019	1	8260B	3/2/15 16:31	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.11	0.00040	1	8260B	3/2/15 16:31	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0057	0.00027	1	8260B	3/2/15 16:31	MSC	P5C0014
Toluene	BRL	mg/kg dry	0.0057	0.00033	1	8260B	3/2/15 16:31	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0057	0.00034	1	8260B	3/2/15 16:31	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0057	0.00030	1	8260B	3/2/15 16:31	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0057	0.00037	1	8260B	3/2/15 16:31	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0057	0.00037	1	8260B	3/2/15 16:31	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.028	0.00078	1	8260B	3/2/15 16:31	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0057	0.00028	1	8260B	3/2/15 16:31	MSC	P5C0014
Xylenes, total	BRL	mg/kg dry	0.017	0.0011	1	8260B	3/2/15 16:31	MSC	P5C0014

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*97 %*	*70-130*
Dibromofluoromethane	*98 %*	*84-123*
Toluene-d8	*92 %*	*76-129*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.4	0.21	100	MADEP VPH	3/2/15 23:31	ANG	P5C0018
C9-C12 Aliphatics	BRL	mg/kg dry	5.4	0.49	100	MADEP VPH	3/2/15 23:31	ANG	P5C0018
C9-C10 Aromatics	BRL	mg/kg dry	5.4	0.047	100	MADEP VPH	3/2/15 23:31	ANG	P5C0018

Surrogate	Recovery	Control Limits	
2,5-Dibromotoluene (PID)	*138 %*	*70-130*	*SR*
2,5-Dibromotoluene (FID)	*142 %*	*70-130*	*SR*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dup2
Prism Sample ID: 5030006-10
Prism Work Order: 5030006
Time Collected: 02/27/15 11:05
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	BRL	mg/kg dry	6.2	1.3	50	*8015C	3/5/15 1:35	ANG	P5C0069
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*121 %*		*50-137*	
General Chemistry Parameters									
% Solids	**71.3**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0062	0.00051	1	8260B	3/2/15 16:55	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 16:55	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0062	0.00042	1	8260B	3/2/15 16:55	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0062	0.00055	1	8260B	3/2/15 16:55	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0062	0.00017	1	8260B	3/2/15 16:55	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00028	1	8260B	3/2/15 16:55	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00034	1	8260B	3/2/15 16:55	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0062	0.00035	1	8260B	3/2/15 16:55	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0062	0.00080	1	8260B	3/2/15 16:55	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0062	0.00046	1	8260B	3/2/15 16:55	MSC	P5C0014
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0062	0.00048	1	8260B	3/2/15 16:55	MSC	P5C0014
1,2-Dibromoethane	BRL	mg/kg dry	0.0062	0.00025	1	8260B	3/2/15 16:55	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00029	1	8260B	3/2/15 16:55	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0062	0.00037	1	8260B	3/2/15 16:55	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0062	0.00039	1	8260B	3/2/15 16:55	MSC	P5C0014
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0062	0.00047	1	8260B	3/2/15 16:55	MSC	P5C0014
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00041	1	8260B	3/2/15 16:55	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0062	0.00031	1	8260B	3/2/15 16:55	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0062	0.00025	1	8260B	3/2/15 16:55	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 16:55	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0062	0.00032	1	8260B	3/2/15 16:55	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0062	0.00037	1	8260B	3/2/15 16:55	MSC	P5C0014
4-Isopropyltoluene	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 16:55	MSC	P5C0014
Acetone	BRL	mg/kg dry	0.062	0.0015	1	8260B	3/2/15 16:55	MSC	P5C0014
Benzene	BRL	mg/kg dry	0.0037	0.00036	1	8260B	3/2/15 16:55	MSC	P5C0014
Bromobenzene	BRL	mg/kg dry	0.0062	0.00052	1	8260B	3/2/15 16:55	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0062	0.00034	1	8260B	3/2/15 16:55	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0062	0.00035	1	8260B	3/2/15 16:55	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0062	0.00071	1	8260B	3/2/15 16:55	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.012	0.00077	1	8260B	3/2/15 16:55	MSC	P5C0014
Carbon Tetrachloride	BRL	mg/kg dry	0.0062	0.00031	1	8260B	3/2/15 16:55	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0062	0.00033	1	8260B	3/2/15 16:55	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.012	0.00052	1	8260B	3/2/15 16:55	MSC	P5C0014
Chloroform	BRL	mg/kg dry	0.0062	0.00045	1	8260B	3/2/15 16:55	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0062	0.00042	1	8260B	3/2/15 16:55	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: Dup2
Prism Sample ID: 5030006-10
Prism Work Order: 5030006
Time Collected: 02/27/15 11:05
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00027	1	8260B	3/2/15 16:55	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00021	1	8260B	3/2/15 16:55	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0062	0.00026	1	8260B	3/2/15 16:55	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0062	0.00028	1	8260B	3/2/15 16:55	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.31	0.12	1	8260B	3/2/15 16:55	MSC	P5C0014
Ethylbenzene	BRL	mg/kg dry	0.0062	0.00024	1	8260B	3/2/15 16:55	MSC	P5C0014
Isopropyl Ether	BRL	mg/kg dry	0.0062	0.00025	1	8260B	3/2/15 16:55	MSC	P5C0014
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0062	0.00037	1	8260B	3/2/15 16:55	MSC	P5C0014
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00058	1	8260B	3/2/15 16:55	MSC	P5C0014
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.062	0.00056	1	8260B	3/2/15 16:55	MSC	P5C0014
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00056	1	8260B	3/2/15 16:55	MSC	P5C0014
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.062	0.00053	1	8260B	3/2/15 16:55	MSC	P5C0014
Methylene Chloride	BRL	mg/kg dry	0.0062	0.00035	1	8260B	3/2/15 16:55	MSC	P5C0014
Methyl-tert-Butyl Ether	**0.0063 J**	**mg/kg dry**	**0.012**	**0.00020**	**1**	**8260B**	**3/2/15 16:55**	**MSC**	**P5C0014**
Naphthalene	BRL	mg/kg dry	0.012	0.00020	1	8260B	3/2/15 16:55	MSC	P5C0014
n-Butylbenzene	BRL	mg/kg dry	0.0062	0.00032	1	8260B	3/2/15 16:55	MSC	P5C0014
n-Propylbenzene	BRL	mg/kg dry	0.0062	0.00037	1	8260B	3/2/15 16:55	MSC	P5C0014
o-Xylene	BRL	mg/kg dry	0.0062	0.00026	1	8260B	3/2/15 16:55	MSC	P5C0014
sec-Butylbenzene	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 16:55	MSC	P5C0014
Styrene	BRL	mg/kg dry	0.0062	0.00038	1	8260B	3/2/15 16:55	MSC	P5C0014
tert-Amyl Alcohol	BRL	mg/kg dry	0.50	0.0052	1	8260B	3/2/15 16:55	MSC	P5C0014
tert-Amyl Methyl Ether	BRL	mg/kg dry	0.12	0.00053	1	8260B	3/2/15 16:55	MSC	P5C0014
tert-Butyl Alcohol	**0.010 J**	**mg/kg dry**	**0.25**	**0.00044**	**1**	**8260B**	**3/2/15 16:55**	**MSC**	**P5C0014**
tert-Butyl Formate	BRL CCV	mg/kg dry	0.50	0.00062	1	8260B	3/2/15 16:55	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0062	0.00021	1	8260B	3/2/15 16:55	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.12	0.00044	1	8260B	3/2/15 16:55	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 16:55	MSC	P5C0014
Toluene	BRL	mg/kg dry	0.0062	0.00036	1	8260B	3/2/15 16:55	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0062	0.00037	1	8260B	3/2/15 16:55	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0062	0.00033	1	8260B	3/2/15 16:55	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0062	0.00040	1	8260B	3/2/15 16:55	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0062	0.00040	1	8260B	3/2/15 16:55	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.031	0.00086	1	8260B	3/2/15 16:55	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0062	0.00030	1	8260B	3/2/15 16:55	MSC	P5C0014
Xylenes, total	BRL	mg/kg dry	0.019	0.0012	1	8260B	3/2/15 16:55	MSC	P5C0014

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*113 %*	*70-130*
Dibromofluoromethane	*115 %*	*84-123*
Toluene-d8	*110 %*	*76-129*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National B2
Prism Sample ID: 5030006-11
Prism Work Order: 5030006
Time Collected: 02/27/15 15:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Diesel Range Organics by GC/FID									
Diesel Range Organics	BRL	mg/kg dry	8.6	1.2	1	*8015C	3/5/15 23:33	JMV	P5C0091
			Surrogate			Recovery		Control Limits	
			o-Terphenyl			*64 %*		*49-124*	
Gasoline Range Organics by GC/FID									
Gasoline Range Organics	**7.2**	**mg/kg dry**	**5.5**	**1.2**	**50**	***8015C**	**3/5/15 2:03**	**ANG**	**P5C0069**
			Surrogate			Recovery		Control Limits	
			a,a,a-Trifluorotoluene			*103 %*		*50-137*	
General Chemistry Parameters									
% Solids	**81.5**	**% by Weight**	**0.100**	**0.100**	**1**	***SM2540 G**	**3/5/15 12:45**	**EGC**	**P5C0095**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0060	0.00049	1	8260B	3/2/15 20:31	MSC	P5C0014
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0060	0.00029	1	8260B	3/2/15 20:31	MSC	P5C0014
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0060	0.00040	1	8260B	3/2/15 20:31	MSC	P5C0014
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0060	0.00053	1	8260B	3/2/15 20:31	MSC	P5C0014
1,1-Dichloroethane	BRL	mg/kg dry	0.0060	0.00017	1	8260B	3/2/15 20:31	MSC	P5C0014
1,1-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00026	1	8260B	3/2/15 20:31	MSC	P5C0014
1,1-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00033	1	8260B	3/2/15 20:31	MSC	P5C0014
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0060	0.00034	1	8260B	3/2/15 20:31	MSC	P5C0014
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0060	0.00076	1	8260B	3/2/15 20:31	MSC	P5C0014
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0060	0.00044	1	8260B	3/2/15 20:31	MSC	P5C0014
1,2,4-Trimethylbenzene	**0.16**	**mg/kg dry**	**0.0060**	**0.00046**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
1,2-Dibromoethane	BRL	mg/kg dry	0.0060	0.00024	1	8260B	3/2/15 20:31	MSC	P5C0014
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00028	1	8260B	3/2/15 20:31	MSC	P5C0014
1,2-Dichloroethane	BRL	mg/kg dry	0.0060	0.00036	1	8260B	3/2/15 20:31	MSC	P5C0014
1,2-Dichloropropane	BRL	mg/kg dry	0.0060	0.00037	1	8260B	3/2/15 20:31	MSC	P5C0014
1,3,5-Trimethylbenzene	**0.046**	**mg/kg dry**	**0.0060**	**0.00045**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00039	1	8260B	3/2/15 20:31	MSC	P5C0014
1,3-Dichloropropane	BRL	mg/kg dry	0.0060	0.00030	1	8260B	3/2/15 20:31	MSC	P5C0014
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00024	1	8260B	3/2/15 20:31	MSC	P5C0014
2,2-Dichloropropane	BRL	mg/kg dry	0.0060	0.00028	1	8260B	3/2/15 20:31	MSC	P5C0014
2-Chlorotoluene	BRL	mg/kg dry	0.0060	0.00031	1	8260B	3/2/15 20:31	MSC	P5C0014
4-Chlorotoluene	BRL	mg/kg dry	0.0060	0.00036	1	8260B	3/2/15 20:31	MSC	P5C0014
4-Isopropyltoluene	**0.0068**	**mg/kg dry**	**0.0060**	**0.00029**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
Acetone	**0.11**	**mg/kg dry**	**0.060**	**0.0015**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
Benzene	See 8260ML	mg/kg dry	0.0036	0.00035	1	8260B	3/2/15 20:31	MSC	P5C0014
Bromobenzene	BRL	mg/kg dry	0.0060	0.00050	1	8260B	3/2/15 20:31	MSC	P5C0014
Bromochloromethane	BRL	mg/kg dry	0.0060	0.00033	1	8260B	3/2/15 20:31	MSC	P5C0014
Bromodichloromethane	BRL	mg/kg dry	0.0060	0.00033	1	8260B	3/2/15 20:31	MSC	P5C0014
Bromoform	BRL	mg/kg dry	0.0060	0.00068	1	8260B	3/2/15 20:31	MSC	P5C0014
Bromomethane	BRL	mg/kg dry	0.012	0.00074	1	8260B	3/2/15 20:31	MSC	P5C0014

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National B2
Prism Sample ID: 5030006-11
Prism Work Order: 5030006
Time Collected: 02/27/15 15:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Carbon Tetrachloride	BRL	mg/kg dry	0.0060	0.00030	1	8260B	3/2/15 20:31	MSC	P5C0014
Chlorobenzene	BRL	mg/kg dry	0.0060	0.00032	1	8260B	3/2/15 20:31	MSC	P5C0014
Chloroethane	BRL	mg/kg dry	0.012	0.00050	1	8260B	3/2/15 20:31	MSC	P5C0014
Chloroform	BRL	mg/kg dry	0.0060	0.00043	1	8260B	3/2/15 20:31	MSC	P5C0014
Chloromethane	BRL	mg/kg dry	0.0060	0.00040	1	8260B	3/2/15 20:31	MSC	P5C0014
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00025	1	8260B	3/2/15 20:31	MSC	P5C0014
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00020	1	8260B	3/2/15 20:31	MSC	P5C0014
Dibromochloromethane	BRL	mg/kg dry	0.0060	0.00025	1	8260B	3/2/15 20:31	MSC	P5C0014
Dichlorodifluoromethane	BRL CCV	mg/kg dry	0.0060	0.00027	1	8260B	3/2/15 20:31	MSC	P5C0014
Ethanol	BRL	mg/kg dry	0.30	0.12	1	8260B	3/2/15 20:31	MSC	P5C0014
Ethylbenzene	**0.13**	**mg/kg dry**	**0.0060**	**0.00023**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
Isopropyl Ether	**0.016**	**mg/kg dry**	**0.0060**	**0.00024**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
Isopropylbenzene (Cumene)	**0.0081**	**mg/kg dry**	**0.0060**	**0.00035**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
m,p-Xylenes	**0.36**	**mg/kg dry**	**0.012**	**0.00055**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
Methyl Butyl Ketone (2-Hexanone)	**0.015 J**	**mg/kg dry**	**0.060**	**0.00054**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
Methyl Ethyl Ketone (2-Butanone)	**0.10 J**	**mg/kg dry**	**0.12**	**0.00054**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.060	0.00051	1	8260B	3/2/15 20:31	MSC	P5C0014
Methylene Chloride	BRL	mg/kg dry	0.0060	0.00034	1	8260B	3/2/15 20:31	MSC	P5C0014
Methyl-tert-Butyl Ether	See 8260ML	mg/kg dry	0.012	0.00019	1	8260B	3/2/15 20:31	MSC	P5C0014
Naphthalene	**0.058**	**mg/kg dry**	**0.012**	**0.00019**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
n-Butylbenzene	**0.0055 J**	**mg/kg dry**	**0.0060**	**0.00030**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
n-Propylbenzene	**0.026**	**mg/kg dry**	**0.0060**	**0.00035**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
o-Xylene	**0.19**	**mg/kg dry**	**0.0060**	**0.00024**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
sec-Butylbenzene	BRL	mg/kg dry	0.0060	0.00029	1	8260B	3/2/15 20:31	MSC	P5C0014
Styrene	BRL	mg/kg dry	0.0060	0.00036	1	8260B	3/2/15 20:31	MSC	P5C0014
tert-Amyl Alcohol	See 8260ML	mg/kg dry	0.48	0.0050	1	8260B	3/2/15 20:31	MSC	P5C0014
tert-Amyl Methyl Ether	**0.0031 J**	**mg/kg dry**	**0.12**	**0.00051**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
tert-Butyl Alcohol	**0.37**	**mg/kg dry**	**0.24**	**0.00042**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**
tert-Butyl Formate	BRL CCV	mg/kg dry	0.48	0.00059	1	8260B	3/2/15 20:31	MSC	P5C0014
tert-Butylbenzene	BRL	mg/kg dry	0.0060	0.00020	1	8260B	3/2/15 20:31	MSC	P5C0014
tert-Butyl Ethyl Ether	BRL	mg/kg dry	0.12	0.00042	1	8260B	3/2/15 20:31	MSC	P5C0014
Tetrachloroethylene	BRL	mg/kg dry	0.0060	0.00028	1	8260B	3/2/15 20:31	MSC	P5C0014
Toluene	See 8260ML	mg/kg dry	0.0060	0.00034	1	8260B	3/2/15 20:31	MSC	P5C0014
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00036	1	8260B	3/2/15 20:31	MSC	P5C0014
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00031	1	8260B	3/2/15 20:31	MSC	P5C0014
Trichloroethylene	BRL	mg/kg dry	0.0060	0.00039	1	8260B	3/2/15 20:31	MSC	P5C0014
Trichlorofluoromethane	BRL	mg/kg dry	0.0060	0.00039	1	8260B	3/2/15 20:31	MSC	P5C0014
Vinyl acetate	BRL	mg/kg dry	0.030	0.00082	1	8260B	3/2/15 20:31	MSC	P5C0014
Vinyl chloride	BRL	mg/kg dry	0.0060	0.00029	1	8260B	3/2/15 20:31	MSC	P5C0014
Xylenes, total	**0.54**	**mg/kg dry**	**0.018**	**0.0011**	**1**	**8260B**	**3/2/15 20:31**	**MSC**	**P5C0014**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Solid

Client Sample ID: National B2
Prism Sample ID: 5030006-11
Prism Work Order: 5030006
Time Collected: 02/27/15 15:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane			97 %		84-123	
			Toluene-d8			97 %		76-129	
Volatile Organic Compounds by GC/MS (Medium Level)									
Benzene	**0.18 J**	**mg/kg dry**	**0.30**	**0.067**	**50**	**8260B**	**3/3/15 14:46**	**MSC**	**P5C0060**
Methyl-tert-Butyl Ether	**0.22 J**	**mg/kg dry**	**0.30**	**0.063**	**50**	**8260B**	**3/3/15 14:46**	**MSC**	**P5C0060**
tert-Amyl Alcohol	**3.1 J**	**mg/kg dry**	**24**	**0.25**	**50**	**8260B**	**3/3/15 14:46**	**MSC**	**P5C0060**
Toluene	**0.23 J**	**mg/kg dry**	**0.30**	**0.064**	**50**	**8260B**	**3/3/15 14:46**	**MSC**	**P5C0060**

Surrogate	Recovery	Control Limits	
4-Bromofluorobenzene	*145 %*	*70-130*	*SR*
Dibromofluoromethane	*117 %*	*70-130*	
Toluene-d8	*127 %*	*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
Blank (P5C0014-BLK1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethanol	BRL	0.25	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
Blank (P5C0014-BLK1)				Prepared & Analyzed: 03/02/15						
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							
Methylene Chloride	BRL	0.0050	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet							
Naphthalene	BRL	0.010	mg/kg wet							
n-Butylbenzene	BRL	0.0050	mg/kg wet							
n-Propylbenzene	BRL	0.0050	mg/kg wet							
o-Xylene	BRL	0.0050	mg/kg wet							
sec-Butylbenzene	BRL	0.0050	mg/kg wet							
Styrene	BRL	0.0050	mg/kg wet							
tert-Amyl Alcohol	BRL	0.40	mg/kg wet							
tert-Amyl Methyl Ether	BRL	0.10	mg/kg wet							
tert-Butyl Alcohol	BRL	0.20	mg/kg wet							
tert-Butyl Formate	BRL	0.40	mg/kg wet							
tert-Butylbenzene	BRL	0.0050	mg/kg wet							
tert-Butyl Ethyl Ether	BRL	0.10	mg/kg wet							
Tetrachloroethylene	BRL	0.0050	mg/kg wet							
Toluene	BRL	0.0050	mg/kg wet							
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Trichloroethylene	BRL	0.0050	mg/kg wet							
Trichlorofluoromethane	BRL	0.0050	mg/kg wet							
Vinyl acetate	BRL	0.025	mg/kg wet							
Vinyl chloride	BRL	0.0050	mg/kg wet							
Xylenes, total	BRL	0.015	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*0.0524*		*mg/kg wet*	*0.05000*		*105*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0504*		*mg/kg wet*	*0.05000*		*101*	*84-123*			
Surrogate: Toluene-d8	*0.0509*		*mg/kg wet*	*0.05000*		*102*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
LCS (P5C0014-BS1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	0.0472	0.0050	mg/kg wet	0.05000		94	72-115			
1,1,1-Trichloroethane	0.0493	0.0050	mg/kg wet	0.05000		99	67-131			
1,1,2,2-Tetrachloroethane	0.0479	0.0050	mg/kg wet	0.05000		96	56-126			
1,1,2-Trichloroethane	0.0452	0.0050	mg/kg wet	0.05000		90	70-133			
1,1-Dichloroethane	0.0488	0.0050	mg/kg wet	0.05000		98	74-127			
1,1-Dichloroethylene	0.0522	0.0050	mg/kg wet	0.05000		104	67-149			
1,1-Dichloropropylene	0.0524	0.0050	mg/kg wet	0.05000		105	71-130			
1,2,3-Trichlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	68-130			
1,2,3-Trichloropropane	0.0466	0.0050	mg/kg wet	0.05000		93	60-137			
1,2,4-Trichlorobenzene	0.0478	0.0050	mg/kg wet	0.05000		96	66-125			
1,2,4-Trimethylbenzene	0.0504	0.0050	mg/kg wet	0.05000		101	69-129			
1,2-Dibromoethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-132			
1,2-Dichlorobenzene	0.0464	0.0050	mg/kg wet	0.05000		93	72-123			
1,2-Dichloroethane	0.0447	0.0050	mg/kg wet	0.05000		89	68-128			
1,2-Dichloropropane	0.0466	0.0050	mg/kg wet	0.05000		93	73-130			
1,3,5-Trimethylbenzene	0.0506	0.0050	mg/kg wet	0.05000		101	69-128			
1,3-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	71-120			
1,3-Dichloropropane	0.0458	0.0050	mg/kg wet	0.05000		92	75-124			
1,4-Dichlorobenzene	0.0472	0.0050	mg/kg wet	0.05000		94	71-123			
2,2-Dichloropropane	0.0511	0.0050	mg/kg wet	0.05000		102	50-142			
2-Chlorotoluene	0.0491	0.0050	mg/kg wet	0.05000		98	67-124			
4-Chlorotoluene	0.0484	0.0050	mg/kg wet	0.05000		97	71-126			
4-Isopropyltoluene	0.0505	0.0050	mg/kg wet	0.05000		101	68-129			
Acetone	0.0874	0.050	mg/kg wet	0.1000		87	29-198			
Benzene	0.0506	0.0030	mg/kg wet	0.05000		101	74-127			
Bromobenzene	0.0472	0.0050	mg/kg wet	0.05000		94	73-125			
Bromochloromethane	0.0448	0.0050	mg/kg wet	0.05000		90	72-134			
Bromodichloromethane	0.0444	0.0050	mg/kg wet	0.05000		89	75-122			
Bromoform	0.0432	0.0050	mg/kg wet	0.05000		86	66-135			
Bromomethane	0.0509	0.010	mg/kg wet	0.05000		102	20-180			
Carbon Tetrachloride	0.0513	0.0050	mg/kg wet	0.05000		103	64-143			
Chlorobenzene	0.0471	0.0050	mg/kg wet	0.05000		94	74-118			
Chloroethane	0.0500	0.010	mg/kg wet	0.05000		100	33-149			
Chloroform	0.0438	0.0050	mg/kg wet	0.05000		88	73-127			
Chloromethane	0.0530	0.0050	mg/kg wet	0.05000		106	45-143			
cis-1,2-Dichloroethylene	0.0490	0.0050	mg/kg wet	0.05000		98	76-134			
cis-1,3-Dichloropropylene	0.0487	0.0050	mg/kg wet	0.05000		97	71-125			
Dibromochloromethane	0.0432	0.0050	mg/kg wet	0.05000		86	73-122			
Dichlorodifluoromethane	0.0615	0.0050	mg/kg wet	0.05000		123	26-146			
Ethanol	1.26	0.25	mg/kg wet	1.250		100	70-130			
Ethylbenzene	0.0492	0.0050	mg/kg wet	0.05000		98	74-128			
Isopropyl Ether	0.0433	0.0050	mg/kg wet	0.05000		87	59-159			
Isopropylbenzene (Cumene)	0.0513	0.0050	mg/kg wet	0.05000		103	68-126			
m,p-Xylenes	0.101	0.010	mg/kg wet	0.1000		101	75-124			
Methyl Butyl Ketone (2-Hexanone)	0.0537	0.050	mg/kg wet	0.05000		107	61-157			
Methyl Ethyl Ketone (2-Butanone)	0.0492	0.10	mg/kg wet	0.05000		98	63-149			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
LCS (P5C0014-BS1)				Prepared & Analyzed: 03/02/15						
Methyl Isobutyl Ketone	0.0500	0.050	mg/kg wet	0.05000		100	57-162			
Methylene Chloride	0.0449	0.0050	mg/kg wet	0.05000		90	74-129			
Methyl-tert-Butyl Ether	0.0492	0.010	mg/kg wet	0.05000		98	70-130			
Naphthalene	0.0483	0.010	mg/kg wet	0.05000		97	57-157			
n-Butylbenzene	0.0525	0.0050	mg/kg wet	0.05000		105	65-135			
n-Propylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	67-130			
o-Xylene	0.0484	0.0050	mg/kg wet	0.05000		97	74-126			
sec-Butylbenzene	0.0504	0.0050	mg/kg wet	0.05000		101	66-131			
Styrene	0.0513	0.0050	mg/kg wet	0.05000		103	77-121			
tert-Amyl Alcohol	0.0542	0.40	mg/kg wet	0.05000		108	70-130			J
tert-Amyl Methyl Ether	0.102	0.10	mg/kg wet	0.1000		102	70-130			
tert-Butyl Alcohol	0.0820	0.20	mg/kg wet	0.1000		82	70-130			J
tert-Butyl Formate	0.159	0.40	mg/kg wet	0.1000		159	70-130			CCV, LH, J
tert-Butylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	67-132			
tert-Butyl Ethyl Ether	0.102	0.10	mg/kg wet	0.1000		102	70-130			
Tetrachloroethylene	0.0499	0.0050	mg/kg wet	0.05000		100	68-130			
Toluene	0.0491	0.0050	mg/kg wet	0.05000		98	71-129			
trans-1,2-Dichloroethylene	0.0508	0.0050	mg/kg wet	0.05000		102	73-132			
trans-1,3-Dichloropropylene	0.0489	0.0050	mg/kg wet	0.05000		98	68-123			
Trichloroethylene	0.0484	0.0050	mg/kg wet	0.05000		97	75-133			
Trichlorofluoromethane	0.0564	0.0050	mg/kg wet	0.05000		113	44-146			
Vinyl acetate	0.0490	0.025	mg/kg wet	0.05000		98	85-161			
Vinyl chloride	0.0534	0.0050	mg/kg wet	0.05000		107	48-147			
Xylenes, total	0.150	0.015	mg/kg wet	0.1500		100	74-126			
Surrogate: 4-Bromofluorobenzene	*0.0479*		*mg/kg wet*	*0.05000*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0478*		*mg/kg wet*	*0.05000*		*96*	*84-123*			
Surrogate: Toluene-d8	*0.0478*		*mg/kg wet*	*0.05000*		*96*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
LCS Dup (P5C0014-BSD1)				Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	0.0479	0.0050	mg/kg wet	0.05000		96	72-115	1	20	
1,1,1-Trichloroethane	0.0497	0.0050	mg/kg wet	0.05000		99	67-131	0.8	20	
1,1,2,2-Tetrachloroethane	0.0493	0.0050	mg/kg wet	0.05000		99	56-126	3	20	
1,1,2-Trichloroethane	0.0449	0.0050	mg/kg wet	0.05000		90	70-133	0.6	20	
1,1-Dichloroethane	0.0487	0.0050	mg/kg wet	0.05000		97	74-127	0.2	20	
1,1-Dichloroethylene	0.0526	0.0050	mg/kg wet	0.05000		105	67-149	0.8	20	
1,1-Dichloropropylene	0.0528	0.0050	mg/kg wet	0.05000		106	71-130	0.9	20	
1,2,3-Trichlorobenzene	0.0483	0.0050	mg/kg wet	0.05000		97	68-130	2	20	
1,2,3-Trichloropropane	0.0480	0.0050	mg/kg wet	0.05000		96	60-137	3	20	
1,2,4-Trichlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	66-125	2	20	
1,2,4-Trimethylbenzene	0.0521	0.0050	mg/kg wet	0.05000		104	69-129	3	20	
1,2-Dibromoethane	0.0486	0.0050	mg/kg wet	0.05000		97	70-132	2	20	
1,2-Dichlorobenzene	0.0476	0.0050	mg/kg wet	0.05000		95	72-123	3	20	
1,2-Dichloroethane	0.0447	0.0050	mg/kg wet	0.05000		89	68-128	0.09	20	
1,2-Dichloropropane	0.0469	0.0050	mg/kg wet	0.05000		94	73-130	0.7	20	
1,3,5-Trimethylbenzene	0.0518	0.0050	mg/kg wet	0.05000		104	69-128	2	20	
1,3-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	71-120	2	20	
1,3-Dichloropropane	0.0462	0.0050	mg/kg wet	0.05000		92	75-124	0.7	20	
1,4-Dichlorobenzene	0.0483	0.0050	mg/kg wet	0.05000		97	71-123	2	20	
2,2-Dichloropropane	0.0507	0.0050	mg/kg wet	0.05000		101	50-142	0.8	20	
2-Chlorotoluene	0.0501	0.0050	mg/kg wet	0.05000		100	67-124	2	20	
4-Chlorotoluene	0.0499	0.0050	mg/kg wet	0.05000		100	71-126	3	20	
4-Isopropyltoluene	0.0516	0.0050	mg/kg wet	0.05000		103	68-129	2	20	
Acetone	0.0887	0.050	mg/kg wet	0.1000		89	29-198	2	20	
Benzene	0.0511	0.0030	mg/kg wet	0.05000		102	74-127	1	20	
Bromobenzene	0.0485	0.0050	mg/kg wet	0.05000		97	73-125	3	20	
Bromochloromethane	0.0467	0.0050	mg/kg wet	0.05000		93	72-134	4	20	
Bromodichloromethane	0.0441	0.0050	mg/kg wet	0.05000		88	75-122	0.9	20	
Bromoform	0.0435	0.0050	mg/kg wet	0.05000		87	66-135	0.7	20	
Bromomethane	0.0537	0.010	mg/kg wet	0.05000		107	20-180	5	20	
Carbon Tetrachloride	0.0522	0.0050	mg/kg wet	0.05000		104	64-143	2	20	
Chlorobenzene	0.0479	0.0050	mg/kg wet	0.05000		96	74-118	2	20	
Chloroethane	0.0500	0.010	mg/kg wet	0.05000		100	33-149	0.1	20	
Chloroform	0.0440	0.0050	mg/kg wet	0.05000		88	73-127	0.5	20	
Chloromethane	0.0536	0.0050	mg/kg wet	0.05000		107	45-143	1	20	
cis-1,2-Dichloroethylene	0.0495	0.0050	mg/kg wet	0.05000		99	76-134	0.9	20	
cis-1,3-Dichloropropylene	0.0487	0.0050	mg/kg wet	0.05000		97	71-125	0.04	20	
Dibromochloromethane	0.0440	0.0050	mg/kg wet	0.05000		88	73-122	2	20	
Dichlorodifluoromethane	0.0606	0.0050	mg/kg wet	0.05000		121	26-146	1	20	
Ethanol	1.22	0.25	mg/kg wet	1.250		97	70-130	3	20	
Ethylbenzene	0.0501	0.0050	mg/kg wet	0.05000		100	74-128	2	20	
Isopropyl Ether	0.0440	0.0050	mg/kg wet	0.05000		88	59-159	1	20	
Isopropylbenzene (Cumene)	0.0527	0.0050	mg/kg wet	0.05000		105	68-126	3	20	
m,p-Xylenes	0.103	0.010	mg/kg wet	0.1000		103	75-124	1	20	
Methyl Butyl Ketone (2-Hexanone)	0.0545	0.050	mg/kg wet	0.05000		109	61-157	1	20	
Methyl Ethyl Ketone (2-Butanone)	0.0491	0.10	mg/kg wet	0.05000		98	63-149	0.2	20	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
LCS Dup (P5C0014-BSD1)				Prepared & Analyzed: 03/02/15						
Methyl Isobutyl Ketone	0.0508	0.050	mg/kg wet	0.05000		102	57-162	2	20	
Methylene Chloride	0.0455	0.0050	mg/kg wet	0.05000		91	74-129	1	20	
Methyl-tert-Butyl Ether	0.0491	0.010	mg/kg wet	0.05000		98	70-130	0.1	20	
Naphthalene	0.0492	0.010	mg/kg wet	0.05000		98	57-157	2	20	
n-Butylbenzene	0.0537	0.0050	mg/kg wet	0.05000		107	65-135	2	20	
n-Propylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	67-130	2	20	
o-Xylene	0.0490	0.0050	mg/kg wet	0.05000		98	74-126	1	20	
sec-Butylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	66-131	2	20	
Styrene	0.0521	0.0050	mg/kg wet	0.05000		104	77-121	2	20	
tert-Amyl Alcohol	0.0496	0.40	mg/kg wet	0.05000		99	70-130	9	20	J
tert-Amyl Methyl Ether	0.102	0.10	mg/kg wet	0.1000		102	70-130	0.3	20	
tert-Butyl Alcohol	0.0796	0.20	mg/kg wet	0.1000		80	70-130	3	20	J
tert-Butyl Formate	0.159	0.40	mg/kg wet	0.1000		159	70-130	0.05	20	CCV, LH, J
tert-Butylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	67-132	2	20	
tert-Butyl Ethyl Ether	0.103	0.10	mg/kg wet	0.1000		103	70-130	0.5	20	
Tetrachloroethylene	0.0509	0.0050	mg/kg wet	0.05000		102	68-130	2	20	
Toluene	0.0494	0.0050	mg/kg wet	0.05000		99	71-129	0.6	20	
trans-1,2-Dichloroethylene	0.0504	0.0050	mg/kg wet	0.05000		101	73-132	0.8	20	
trans-1,3-Dichloropropylene	0.0494	0.0050	mg/kg wet	0.05000		99	68-123	1	20	
Trichloroethylene	0.0486	0.0050	mg/kg wet	0.05000		97	75-133	0.4	20	
Trichlorofluoromethane	0.0564	0.0050	mg/kg wet	0.05000		113	44-146	0.02	20	
Vinyl acetate	0.0482	0.025	mg/kg wet	0.05000		96	85-161	2	20	
Vinyl chloride	0.0531	0.0050	mg/kg wet	0.05000		106	48-147	0.5	20	
Xylenes, total	0.152	0.015	mg/kg wet	0.1500		101	74-126	1	20	
Surrogate: 4-Bromofluorobenzene	*0.0496*		*mg/kg wet*	*0.05000*		*99*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0477*		*mg/kg wet*	*0.05000*		*95*	*84-123*			
Surrogate: Toluene-d8	*0.0483*		*mg/kg wet*	*0.05000*		*97*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
Matrix Spike (P5C0014-MS1)		**Source: 5030006-06**		Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	0.0461	0.0060	mg/kg dry	0.06035	BRL	76	60-120			
1,1,1-Trichloroethane	0.0558	0.0060	mg/kg dry	0.06035	BRL	92	52-139			
1,1,2,2-Tetrachloroethane	0.0521	0.0060	mg/kg dry	0.06035	BRL	86	39-135			
1,1,2-Trichloroethane	0.0456	0.0060	mg/kg dry	0.06035	BRL	76	44-140			
1,1-Dichloroethane	0.0531	0.0060	mg/kg dry	0.06035	BRL	88	59-137			
1,1-Dichloroethylene	0.0618	0.0060	mg/kg dry	0.06035	BRL	102	54-162			
1,1-Dichloropropylene	0.0600	0.0060	mg/kg dry	0.06035	BRL	99	55-137			
1,2,3-Trichlorobenzene	0.0419	0.0060	mg/kg dry	0.06035	BRL	69	34-120			
1,2,3-Trichloropropane	0.0540	0.0060	mg/kg dry	0.06035	BRL	90	45-139			
1,2,4-Trichlorobenzene	0.0417	0.0060	mg/kg dry	0.06035	BRL	69	35-116			
1,2,4-Trimethylbenzene	0.0549	0.0060	mg/kg dry	0.06035	BRL	91	38-142			
1,2-Dibromoethane	0.0491	0.0060	mg/kg dry	0.06035	BRL	81	49-132			
1,2-Dichlorobenzene	0.0466	0.0060	mg/kg dry	0.06035	BRL	77	42-130			
1,2-Dichloroethane	0.0451	0.0060	mg/kg dry	0.06035	BRL	75	51-131			
1,2-Dichloropropane	0.0480	0.0060	mg/kg dry	0.06035	BRL	80	55-138			
1,3,5-Trimethylbenzene	0.0546	0.0060	mg/kg dry	0.06035	BRL	90	44-140			
1,3-Dichlorobenzene	0.0472	0.0060	mg/kg dry	0.06035	BRL	78	41-129			
1,3-Dichloropropane	0.0468	0.0060	mg/kg dry	0.06035	BRL	78	53-129			
1,4-Dichlorobenzene	0.0472	0.0060	mg/kg dry	0.06035	BRL	78	44-134			
2,2-Dichloropropane	0.0544	0.0060	mg/kg dry	0.06035	BRL	90	30-147			
2-Chlorotoluene	0.0524	0.0060	mg/kg dry	0.06035	BRL	87	46-132			
4-Chlorotoluene	0.0510	0.0060	mg/kg dry	0.06035	BRL	85	44-135			
4-Isopropyltoluene	0.0541	0.0060	mg/kg dry	0.06035	BRL	90	32-144			
Acetone	0.155	0.060	mg/kg dry	0.1207	BRL	128	34-143			
Benzene	0.0558	0.0036	mg/kg dry	0.06035	BRL	92	60-135			
Bromobenzene	0.0487	0.0060	mg/kg dry	0.06035	BRL	81	45-135			
Bromochloromethane	0.0483	0.0060	mg/kg dry	0.06035	BRL	80	55-136			
Bromodichloromethane	0.0425	0.0060	mg/kg dry	0.06035	BRL	71	55-127			
Bromoform	0.0402	0.0060	mg/kg dry	0.06035	BRL	67	40-136			
Bromomethane	0.0536	0.012	mg/kg dry	0.06035	BRL	89	30-137			
Carbon Tetrachloride	0.0579	0.0060	mg/kg dry	0.06035	BRL	96	48-153			
Chlorobenzene	0.0495	0.0060	mg/kg dry	0.06035	BRL	82	57-125			
Chloroethane	0.0610	0.012	mg/kg dry	0.06035	BRL	101	16-177			
Chloroform	0.0468	0.0060	mg/kg dry	0.06035	BRL	78	56-137			
Chloromethane	0.0600	0.0060	mg/kg dry	0.06035	BRL	99	40-145			
cis-1,2-Dichloroethylene	0.0526	0.0060	mg/kg dry	0.06035	BRL	87	58-140			
cis-1,3-Dichloropropylene	0.0467	0.0060	mg/kg dry	0.06035	BRL	77	42-135			
Dibromochloromethane	0.0402	0.0060	mg/kg dry	0.06035	BRL	67	49-127			
Dichlorodifluoromethane	0.0727	0.0060	mg/kg dry	0.06035	BRL	120	25-151			
Ethanol	1.61	0.30	mg/kg dry	1.509	BRL	107	70-130			
Ethylbenzene	0.0538	0.0060	mg/kg dry	0.06035	BRL	89	44-144			
Isopropyl Ether	0.0436	0.0060	mg/kg dry	0.06035	BRL	72	51-155			
Isopropylbenzene (Cumene)	0.0575	0.0060	mg/kg dry	0.06035	BRL	95	41-140			
m,p-Xylenes	0.112	0.012	mg/kg dry	0.1207	BRL	93	36-148			
Methyl Butyl Ketone (2-Hexanone)	0.0719	0.060	mg/kg dry	0.06035	BRL	119	30-147			
Methyl Ethyl Ketone (2-Butanone)	0.0693	0.12	mg/kg dry	0.06035	BRL	115	24-160			J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
Matrix Spike (P5C0014-MS1)		**Source: 5030006-06**		Prepared & Analyzed: 03/02/15						
Methyl Isobutyl Ketone	0.0622	0.060	mg/kg dry	0.06035	BRL	103	25-163			
Methylene Chloride	0.0478	0.0060	mg/kg dry	0.06035	BRL	79	53-144			
Methyl-tert-Butyl Ether	0.0524	0.012	mg/kg dry	0.06035	0.00572	77	49-135			
Naphthalene	0.0519	0.012	mg/kg dry	0.06035	BRL	86	32-127			
n-Butylbenzene	0.0554	0.0060	mg/kg dry	0.06035	BRL	92	23-148			
n-Propylbenzene	0.0557	0.0060	mg/kg dry	0.06035	BRL	92	35-144			
o-Xylene	0.0519	0.0060	mg/kg dry	0.06035	BRL	86	43-143			
sec-Butylbenzene	0.0556	0.0060	mg/kg dry	0.06035	BRL	92	34-144			
Styrene	0.0516	0.0060	mg/kg dry	0.06035	BRL	86	42-132			
tert-Amyl Alcohol	0.0782	0.48	mg/kg dry	0.06035	BRL	130	70-130			J
tert-Amyl Methyl Ether	0.0987	0.12	mg/kg dry	0.1207	BRL	82	70-130			J
tert-Butyl Alcohol	0.142	0.24	mg/kg dry	0.1207	0.00562	113	70-130			J
tert-Butyl Formate	0.138	0.48	mg/kg dry	0.1207	BRL	115	70-130			J
tert-Butylbenzene	0.0548	0.0060	mg/kg dry	0.06035	BRL	91	36-150			
tert-Butyl Ethyl Ether	0.100	0.12	mg/kg dry	0.1207	BRL	83	70-130			J
Tetrachloroethylene	0.0553	0.0060	mg/kg dry	0.06035	BRL	92	47-142			
Toluene	0.0544	0.0060	mg/kg dry	0.06035	BRL	90	57-135			
trans-1,2-Dichloroethylene	0.0565	0.0060	mg/kg dry	0.06035	BRL	94	58-141			
trans-1,3-Dichloropropylene	0.0457	0.0060	mg/kg dry	0.06035	BRL	76	41-124			
Trichloroethylene	0.0545	0.0060	mg/kg dry	0.06035	BRL	90	38-164			
Trichlorofluoromethane	0.0649	0.0060	mg/kg dry	0.06035	BRL	108	30-157			
Vinyl acetate	0.0406	0.030	mg/kg dry	0.06035	BRL	67	61-154			
Vinyl chloride	0.0635	0.0060	mg/kg dry	0.06035	BRL	105	40-156			
Xylenes, total	0.164	0.018	mg/kg dry	0.1811	BRL	91	36-148			
Surrogate: 4-Bromofluorobenzene	*0.0650*		*mg/kg dry*	*0.06035*		*108*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0656*		*mg/kg dry*	*0.06035*		*109*	*84-123*			
Surrogate: Toluene-d8	*0.0635*		*mg/kg dry*	*0.06035*		*105*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
Matrix Spike Dup (P5C0014-MSD1)	**Source: 5030006-06**			Prepared & Analyzed: 03/02/15						
1,1,1,2-Tetrachloroethane	0.0424	0.0059	mg/kg dry	0.05931	BRL	72	60-120	8	15	
1,1,1-Trichloroethane	0.0517	0.0059	mg/kg dry	0.05931	BRL	87	52-139	8	21	
1,1,2,2-Tetrachloroethane	0.0440	0.0059	mg/kg dry	0.05931	BRL	74	39-135	17	22	
1,1,2-Trichloroethane	0.0397	0.0059	mg/kg dry	0.05931	BRL	67	44-140	14	21	
1,1-Dichloroethane	0.0491	0.0059	mg/kg dry	0.05931	BRL	83	59-137	8	21	
1,1-Dichloroethylene	0.0575	0.0059	mg/kg dry	0.05931	BRL	97	54-162	7	22	
1,1-Dichloropropylene	0.0556	0.0059	mg/kg dry	0.05931	BRL	94	55-137	8	19	
1,2,3-Trichlorobenzene	0.0370	0.0059	mg/kg dry	0.05931	BRL	62	34-120	12	41	
1,2,3-Trichloropropane	0.0454	0.0059	mg/kg dry	0.05931	BRL	77	45-139	17	25	
1,2,4-Trichlorobenzene	0.0368	0.0059	mg/kg dry	0.05931	BRL	62	35-116	13	62	
1,2,4-Trimethylbenzene	0.0486	0.0059	mg/kg dry	0.05931	BRL	82	38-142	12	24	
1,2-Dibromoethane	0.0431	0.0059	mg/kg dry	0.05931	BRL	73	49-132	13	15	
1,2-Dichlorobenzene	0.0415	0.0059	mg/kg dry	0.05931	BRL	70	42-130	11	21	
1,2-Dichloroethane	0.0407	0.0059	mg/kg dry	0.05931	BRL	69	51-131	10	13	
1,2-Dichloropropane	0.0445	0.0059	mg/kg dry	0.05931	BRL	75	55-138	7	16	
1,3,5-Trimethylbenzene	0.0491	0.0059	mg/kg dry	0.05931	BRL	83	44-140	11	29	
1,3-Dichlorobenzene	0.0420	0.0059	mg/kg dry	0.05931	BRL	71	41-129	12	24	
1,3-Dichloropropane	0.0411	0.0059	mg/kg dry	0.05931	BRL	69	53-129	13	15	
1,4-Dichlorobenzene	0.0416	0.0059	mg/kg dry	0.05931	BRL	70	44-134	13	21	
2,2-Dichloropropane	0.0505	0.0059	mg/kg dry	0.05931	BRL	85	30-147	7	20	
2-Chlorotoluene	0.0471	0.0059	mg/kg dry	0.05931	BRL	79	46-132	11	29	
4-Chlorotoluene	0.0454	0.0059	mg/kg dry	0.05931	BRL	77	44-135	12	23	
4-Isopropyltoluene	0.0488	0.0059	mg/kg dry	0.05931	BRL	82	32-144	10	22	
Acetone	0.121	0.059	mg/kg dry	0.1186	BRL	102	34-143	25	49	
Benzene	0.0519	0.0036	mg/kg dry	0.05931	BRL	87	60-135	7	20	
Bromobenzene	0.0439	0.0059	mg/kg dry	0.05931	BRL	74	45-135	10	25	
Bromochloromethane	0.0444	0.0059	mg/kg dry	0.05931	BRL	75	55-136	8	18	
Bromodichloromethane	0.0394	0.0059	mg/kg dry	0.05931	BRL	67	55-127	8	17	
Bromoform	0.0359	0.0059	mg/kg dry	0.05931	BRL	60	40-136	11	35	
Bromomethane	0.0530	0.012	mg/kg dry	0.05931	BRL	89	30-137	1	30	
Carbon Tetrachloride	0.0533	0.0059	mg/kg dry	0.05931	BRL	90	48-153	8	23	
Chlorobenzene	0.0443	0.0059	mg/kg dry	0.05931	BRL	75	57-125	11	14	
Chloroethane	0.0584	0.012	mg/kg dry	0.05931	BRL	98	16-177	4	47	
Chloroform	0.0432	0.0059	mg/kg dry	0.05931	BRL	73	56-137	8	18	
Chloromethane	0.0570	0.0059	mg/kg dry	0.05931	BRL	96	40-145	5	26	
cis-1,2-Dichloroethylene	0.0490	0.0059	mg/kg dry	0.05931	BRL	83	58-140	7	28	
cis-1,3-Dichloropropylene	0.0431	0.0059	mg/kg dry	0.05931	BRL	73	42-135	8	32	
Dibromochloromethane	0.0365	0.0059	mg/kg dry	0.05931	BRL	62	49-127	10	24	
Dichlorodifluoromethane	0.0672	0.0059	mg/kg dry	0.05931	BRL	113	25-151	8	37	
Ethanol	1.34	0.30	mg/kg dry	1.483	BRL	90	70-130	19	20	
Ethylbenzene	0.0486	0.0059	mg/kg dry	0.05931	BRL	82	44-144	10	19	
Isopropyl Ether	0.0399	0.0059	mg/kg dry	0.05931	BRL	67	51-155	9	13	
Isopropylbenzene (Cumene)	0.0518	0.0059	mg/kg dry	0.05931	BRL	87	41-140	10	27	
m,p-Xylenes	0.0992	0.012	mg/kg dry	0.1186	BRL	84	36-148	12	20	
Methyl Butyl Ketone (2-Hexanone)	0.0546	0.059	mg/kg dry	0.05931	BRL	92	30-147	27	42	J
Methyl Ethyl Ketone (2-Butanone)	0.0557	0.12	mg/kg dry	0.05931	BRL	94	24-160	22	42	J

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0014 - 5035										
Matrix Spike Dup (P5C0014-MSD1)		**Source: 5030006-06**		Prepared & Analyzed: 03/02/15						
Methyl Isobutyl Ketone	0.0506	0.059	mg/kg dry	0.05931	BRL	85	25-163	21	44	J
Methylene Chloride	0.0438	0.0059	mg/kg dry	0.05931	BRL	74	53-144	9	14	
Methyl-tert-Butyl Ether	0.0461	0.012	mg/kg dry	0.05931	0.00572	68	49-135	13	22	
Naphthalene	0.0441	0.012	mg/kg dry	0.05931	BRL	74	32-127	16	44	
n-Butylbenzene	0.0497	0.0059	mg/kg dry	0.05931	BRL	84	23-148	11	39	
n-Propylbenzene	0.0502	0.0059	mg/kg dry	0.05931	BRL	85	35-144	10	27	
o-Xylene	0.0463	0.0059	mg/kg dry	0.05931	BRL	78	43-143	11	17	
sec-Butylbenzene	0.0505	0.0059	mg/kg dry	0.05931	BRL	85	34-144	10	28	
Styrene	0.0463	0.0059	mg/kg dry	0.05931	BRL	78	42-132	11	28	
tert-Amyl Alcohol	0.0597	0.47	mg/kg dry	0.05931	BRL	101	70-130	27	20	D, J
tert-Amyl Methyl Ether	0.0894	0.12	mg/kg dry	0.1186	BRL	75	70-130	10	20	J
tert-Butyl Alcohol	0.104	0.24	mg/kg dry	0.1186	0.00562	83	70-130	31	20	D, J
tert-Butyl Formate	0.124	0.47	mg/kg dry	0.1186	BRL	104	70-130	11	20	J
tert-Butylbenzene	0.0495	0.0059	mg/kg dry	0.05931	BRL	83	36-150	10	29	
tert-Butyl Ethyl Ether	0.0915	0.12	mg/kg dry	0.1186	BRL	77	70-130	9	20	J
Tetrachloroethylene	0.0513	0.0059	mg/kg dry	0.05931	BRL	86	47-142	8	26	
Toluene	0.0502	0.0059	mg/kg dry	0.05931	BRL	85	57-135	8	22	
trans-1,2-Dichloroethylene	0.0534	0.0059	mg/kg dry	0.05931	BRL	90	58-141	6	18	
trans-1,3-Dichloropropylene	0.0420	0.0059	mg/kg dry	0.05931	BRL	71	41-124	8	20	
Trichloroethylene	0.0506	0.0059	mg/kg dry	0.05931	BRL	85	38-164	7	18	
Trichlorofluoromethane	0.0617	0.0059	mg/kg dry	0.05931	BRL	104	30-157	5	27	
Vinyl acetate	0.0376	0.030	mg/kg dry	0.05931	BRL	63	61-154	8	35	
Vinyl chloride	0.0600	0.0059	mg/kg dry	0.05931	BRL	101	40-156	6	35	
Xylenes, total	0.145	0.018	mg/kg dry	0.1779	BRL	82	36-148	12	20	
Surrogate: 4-Bromofluorobenzene	*0.0555*		*mg/kg dry*	*0.05931*		*94*	*70-130*			
Surrogate: Dibromofluoromethane	*0.0576*		*mg/kg dry*	*0.05931*		*97*	*84-123*			
Surrogate: Toluene-d8	*0.0541*		*mg/kg dry*	*0.05931*		*91*	*76-129*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0060 - 5035										
Blank (P5C0060-BLK1)				Prepared & Analyzed: 03/03/15						
1,2,4-Trimethylbenzene	BRL	0.25	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.25	mg/kg wet							
Benzene	BRL	0.25	mg/kg wet							
Ethylbenzene	BRL	0.25	mg/kg wet							
m,p-Xylenes	BRL	0.50	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	1.0	mg/kg wet							
Methyl-tert-Butyl Ether	BRL	0.25	mg/kg wet							
Naphthalene	BRL	0.50	mg/kg wet							
o-Xylene	BRL	0.25	mg/kg wet							
tert-Amyl Alcohol	BRL	20	mg/kg wet							
Toluene	BRL	0.25	mg/kg wet							
Surrogate: 4-Bromofluorobenzene	*1.29*		*mg/kg wet*	*1.000*		*129*	*70-130*			
Surrogate: Dibromofluoromethane	*1.06*		*mg/kg wet*	*1.000*		*106*	*70-130*			
Surrogate: Toluene-d8	*1.10*		*mg/kg wet*	*1.000*		*110*	*70-130*			
LCS (P5C0060-BS1)				Prepared & Analyzed: 03/03/15						
1,2,4-Trimethylbenzene	0.951	0.25	mg/kg wet	1.000		95	69-126			
1,3,5-Trimethylbenzene	0.952	0.25	mg/kg wet	1.000		95	69-124			
Benzene	0.982	0.25	mg/kg wet	1.000		98	74-123			
Ethylbenzene	0.966	0.25	mg/kg wet	1.000		97	69-125			
m,p-Xylenes	1.92	0.50	mg/kg wet	2.000		96	64-125			
Methyl Ethyl Ketone (2-Butanone)	0.786	1.0	mg/kg wet	1.000		79	34-165			J
Methyl-tert-Butyl Ether	0.927	0.25	mg/kg wet	1.000		93	62-123			
Naphthalene	0.830	0.50	mg/kg wet	1.000		83	58-129			
o-Xylene	0.960	0.25	mg/kg wet	1.000		96	69-121			
tert-Amyl Alcohol	0.875	20	mg/kg wet	1.000		88	70-130			J
Toluene	0.998	0.25	mg/kg wet	1.000		100	74-122			
Surrogate: 4-Bromofluorobenzene	*1.13*		*mg/kg wet*	*1.000*		*113*	*70-130*			
Surrogate: Dibromofluoromethane	*1.00*		*mg/kg wet*	*1.000*		*100*	*70-130*			
Surrogate: Toluene-d8	*1.05*		*mg/kg wet*	*1.000*		*105*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS (Medium Level) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0060 - 5035										
LCS Dup (P5C0060-BSD1)			Prepared & Analyzed: 03/03/15							
1,2,4-Trimethylbenzene	0.938	0.25	mg/kg wet	1.000		94	69-126	1	20	
1,3,5-Trimethylbenzene	0.934	0.25	mg/kg wet	1.000		93	69-124	2	20	
Benzene	0.954	0.25	mg/kg wet	1.000		95	74-123	3	20	
Ethylbenzene	0.936	0.25	mg/kg wet	1.000		94	69-125	3	20	
m,p-Xylenes	1.87	0.50	mg/kg wet	2.000		93	64-125	3	20	
Methyl Ethyl Ketone (2-Butanone)	0.756	1.0	mg/kg wet	1.000		76	34-165	4	20	J
Methyl-tert-Butyl Ether	0.905	0.25	mg/kg wet	1.000		91	62-123	2	20	
Naphthalene	0.804	0.50	mg/kg wet	1.000		80	58-129	3	20	
o-Xylene	0.932	0.25	mg/kg wet	1.000		93	69-121	3	20	
tert-Amyl Alcohol	0.688	20	mg/kg wet	1.000		69	70-130	24	20	D, L2, J
Toluene	0.965	0.25	mg/kg wet	1.000		96	74-122	3	20	
Surrogate: 4-Bromofluorobenzene	*1.12*		*mg/kg wet*	*1.000*		*112*	*70-130*			
Surrogate: Dibromofluoromethane	*0.984*		*mg/kg wet*	*1.000*		*98*	*70-130*			
Surrogate: Toluene-d8	*1.03*		*mg/kg wet*	*1.000*		*103*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
Blank (P5C0033-BLK1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
Blank (P5C0033-BLK1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
Surrogate: 2,4,6-Tribromophenol	*2.80*		*mg/kg wet*	*3.332*		*84*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.51*		*mg/kg wet*	*1.666*		*91*	*44-115*			
Surrogate: 2-Fluorophenol	*3.02*		*mg/kg wet*	*3.332*		*91*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.33*		*mg/kg wet*	*1.666*		*80*	*37-122*			
Surrogate: Phenol-d5	*2.78*		*mg/kg wet*	*3.332*		*83*	*34-121*			
Surrogate: Terphenyl-d14	*1.69*		*mg/kg wet*	*1.666*		*101*	*54-127*			
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	1.45	0.33	mg/kg wet	1.664		87	34-118			
1,2-Dichlorobenzene	1.34	0.33	mg/kg wet	1.664		81	33-117			
1,3-Dichlorobenzene	1.32	0.33	mg/kg wet	1.664		79	30-115			
1,4-Dichlorobenzene	1.25	0.33	mg/kg wet	1.664		75	31-115			
1-Methylnaphthalene	1.45	0.33	mg/kg wet	1.664		87	40-119			
2,4,6-Trichlorophenol	1.83	0.33	mg/kg wet	1.664		110	39-126			
2,4-Dichlorophenol	1.70	0.33	mg/kg wet	1.664		102	40-122			
2,4-Dimethylphenol	1.70	0.33	mg/kg wet	1.664		102	30-127			
2,4-Dinitrophenol	1.09	0.33	mg/kg wet	1.664		66	27-129			
2,4-Dinitrotoluene	1.78	0.33	mg/kg wet	1.664		107	48-126			
2,6-Dinitrotoluene	1.79	0.33	mg/kg wet	1.664		108	46-124			
2-Chloronaphthalene	2.15	0.33	mg/kg wet	1.664		129	41-114			LH
2-Chlorophenol	1.53	0.33	mg/kg wet	1.664		92	34-121			
2-Methylnaphthalene	1.52	0.33	mg/kg wet	1.664		92	38-122			
2-Methylphenol	1.58	0.33	mg/kg wet	1.664		95	32-122			
2-Nitrophenol	1.68	0.33	mg/kg wet	1.664		101	36-123			
3,3'-Dichlorobenzidine	1.41	0.33	mg/kg wet	1.664		84	22-121			
3/4-Methylphenol	1.59	0.33	mg/kg wet	1.664		96	34-119			
4,6-Dinitro-2-methylphenol	1.44	0.33	mg/kg wet	1.664		87	29-132			
4-Bromophenyl phenyl ether	1.53	0.33	mg/kg wet	1.664		92	46-124			
4-Chloro-3-methylphenol	1.74	0.33	mg/kg wet	1.664		105	45-122			
4-Chloroaniline	1.56	0.33	mg/kg wet	1.664		94	17-106			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
4-Chlorophenyl phenyl ether	1.53	0.33	mg/kg wet	1.664		92	45-121			
4-Nitrophenol	1.74	0.33	mg/kg wet	1.664		104	30-132			
Acenaphthene	1.57	0.33	mg/kg wet	1.664		94	40-123			
Acenaphthylene	1.60	0.33	mg/kg wet	1.664		96	32-132			
Anthracene	1.58	0.33	mg/kg wet	1.664		95	47-123			
Azobenzene	1.88	0.33	mg/kg wet	1.664		113	39-125			
Benzo(a)anthracene	1.53	0.33	mg/kg wet	1.664		92	49-126			
Benzo(a)pyrene	1.24	0.33	mg/kg wet	1.664		75	45-129			
Benzo(b)fluoranthene	1.26	0.33	mg/kg wet	1.664		76	45-132			
Benzo(g,h,i)perylene	1.27	0.33	mg/kg wet	1.664		76	43-134			
Benzo(k)fluoranthene	1.24	0.33	mg/kg wet	1.664		74	47-132			
Benzoic Acid	1.56	0.33	mg/kg wet	1.664		93	10-83			LH
Benzyl alcohol	1.39	0.33	mg/kg wet	1.664		83	29-122			
bis(2-Chloroethoxy)methane	1.52	0.33	mg/kg wet	1.664		91	36-121			
Bis(2-Chloroethyl)ether	1.34	0.33	mg/kg wet	1.664		81	31-120			
Bis(2-chloroisopropyl)ether	1.30	0.33	mg/kg wet	1.664		78	33-131			
Bis(2-Ethylhexyl)phthalate	1.57	0.33	mg/kg wet	1.664		94	51-133			
Butyl benzyl phthalate	1.55	0.33	mg/kg wet	1.664		93	48-132			
Chrysene	1.62	0.33	mg/kg wet	1.664		98	50-124			
Dibenzo(a,h)anthracene	1.26	0.33	mg/kg wet	1.664		76	45-134			
Dibenzofuran	1.53	0.33	mg/kg wet	1.664		92	44-120			
Diethyl phthalate	1.59	0.33	mg/kg wet	1.664		95	50-124			
Dimethyl phthalate	1.60	0.33	mg/kg wet	1.664		96	48-124			
Di-n-butyl phthalate	1.58	0.33	mg/kg wet	1.664		95	51-128			
Di-n-octyl phthalate	1.30	0.33	mg/kg wet	1.664		78	45-140			
Fluoranthene	1.54	0.33	mg/kg wet	1.664		92	50-127			
Fluorene	1.60	0.33	mg/kg wet	1.664		96	43-125			
Hexachlorobenzene	1.57	0.33	mg/kg wet	1.664		94	45-122			
Hexachlorobutadiene	1.45	0.33	mg/kg wet	1.664		87	32-123			
Hexachlorocyclopentadiene	1.50	0.33	mg/kg wet	1.664		90	32-117			
Hexachloroethane	1.31	0.33	mg/kg wet	1.664		79	28-117			
Indeno(1,2,3-cd)pyrene	1.31	0.33	mg/kg wet	1.664		79	45-133			
Isophorone	1.69	0.33	mg/kg wet	1.664		102	30-122			
Naphthalene	1.47	0.33	mg/kg wet	1.664		88	35-123			
Nitrobenzene	1.63	0.33	mg/kg wet	1.664		98	34-122			
N-Nitroso-di-n-propylamine	1.40	0.33	mg/kg wet	1.664		84	36-120			
N-Nitrosodiphenylamine	1.62	0.33	mg/kg wet	1.664		97	38-127			
Pentachlorophenol	1.55	0.33	mg/kg wet	1.664		93	25-133			
Phenanthrene	1.56	0.33	mg/kg wet	1.664		94	50-121			
Phenol	1.61	0.33	mg/kg wet	1.664		96	34-121			
Pyrene	1.59	0.33	mg/kg wet	1.664		95	47-127			
Surrogate: 2,4,6-Tribromophenol	*3.17*		*mg/kg wet*	*3.329*		*95*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.69*		*mg/kg wet*	*1.664*		*102*	*44-115*			
Surrogate: 2-Fluorophenol	*3.25*		*mg/kg wet*	*3.329*		*98*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.56*		*mg/kg wet*	*1.664*		*94*	*37-122*			
Surrogate: Phenol-d5	*3.10*		*mg/kg wet*	*3.329*		*93*	*34-121*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS (P5C0033-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Surrogate: Terphenyl-d14	*1.77*		*mg/kg wet*	*1.664*		*106*	*54-127*			
LCS Dup (P5C0033-BSD1)				Prepared: 03/03/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	1.40	0.33	mg/kg wet	1.665		84	34-118	3	20	
1,2-Dichlorobenzene	1.37	0.33	mg/kg wet	1.665		82	33-117	2	20	
1,3-Dichlorobenzene	1.35	0.33	mg/kg wet	1.665		81	30-115	3	20	
1,4-Dichlorobenzene	1.32	0.33	mg/kg wet	1.665		79	31-115	5	20	
1-Methylnaphthalene	1.40	0.33	mg/kg wet	1.665		84	40-119	4	20	
2,4,6-Trichlorophenol	1.73	0.33	mg/kg wet	1.665		104	39-126	5	20	
2,4-Dichlorophenol	1.67	0.33	mg/kg wet	1.665		100	40-122	2	20	
2,4-Dimethylphenol	1.62	0.33	mg/kg wet	1.665		98	30-127	4	20	
2,4-Dinitrophenol	1.31	0.33	mg/kg wet	1.665		79	27-129	18	20	
2,4-Dinitrotoluene	1.76	0.33	mg/kg wet	1.665		105	48-126	2	20	
2,6-Dinitrotoluene	1.81	0.33	mg/kg wet	1.665		109	46-124	1	20	
2-Chloronaphthalene	2.17	0.33	mg/kg wet	1.665		130	41-114	1	20	LH
2-Chlorophenol	1.56	0.33	mg/kg wet	1.665		94	34-121	2	20	
2-Methylnaphthalene	1.46	0.33	mg/kg wet	1.665		88	38-122	4	20	
2-Methylphenol	1.58	0.33	mg/kg wet	1.665		95	32-122	0.07	20	
2-Nitrophenol	1.57	0.33	mg/kg wet	1.665		94	36-123	7	20	
3,3'-Dichlorobenzidine	1.37	0.33	mg/kg wet	1.665		82	22-121	3	20	
3/4-Methylphenol	1.66	0.33	mg/kg wet	1.665		100	34-119	4	20	
4,6-Dinitro-2-methylphenol	1.64	0.33	mg/kg wet	1.665		98	29-132	13	20	
4-Bromophenyl phenyl ether	1.49	0.33	mg/kg wet	1.665		89	46-124	2	20	
4-Chloro-3-methylphenol	1.67	0.33	mg/kg wet	1.665		100	45-122	4	20	
4-Chloroaniline	1.50	0.33	mg/kg wet	1.665		90	17-106	4	20	
4-Chlorophenyl phenyl ether	1.49	0.33	mg/kg wet	1.665		89	45-121	3	20	
4-Nitrophenol	1.48	0.33	mg/kg wet	1.665		89	30-132	16	20	
Acenaphthene	1.54	0.33	mg/kg wet	1.665		92	40-123	2	20	
Acenaphthylene	1.52	0.33	mg/kg wet	1.665		91	32-132	5	20	
Anthracene	1.56	0.33	mg/kg wet	1.665		94	47-123	1	20	
Azobenzene	1.81	0.33	mg/kg wet	1.665		109	39-125	3	20	
Benzo(a)anthracene	1.51	0.33	mg/kg wet	1.665		90	49-126	2	20	
Benzo(a)pyrene	1.23	0.33	mg/kg wet	1.665		74	45-129	1	20	
Benzo(b)fluoranthene	1.26	0.33	mg/kg wet	1.665		76	45-132	0.2	20	
Benzo(g,h,i)perylene	1.27	0.33	mg/kg wet	1.665		76	43-134	0.3	20	
Benzo(k)fluoranthene	1.24	0.33	mg/kg wet	1.665		74	47-132	0.07	20	
Benzoic Acid	1.51	0.33	mg/kg wet	1.665		91	10-83	3	20	LH
Benzyl alcohol	1.39	0.33	mg/kg wet	1.665		84	29-122	0.5	20	
bis(2-Chloroethoxy)methane	1.44	0.33	mg/kg wet	1.665		86	36-121	5	20	
Bis(2-Chloroethyl)ether	1.41	0.33	mg/kg wet	1.665		85	31-120	5	20	
Bis(2-chloroisopropyl)ether	1.32	0.33	mg/kg wet	1.665		79	33-131	1	20	
Bis(2-Ethylhexyl)phthalate	1.56	0.33	mg/kg wet	1.665		94	51-133	0.6	20	
Butyl benzyl phthalate	1.56	0.33	mg/kg wet	1.665		94	48-132	0.6	20	
Chrysene	1.57	0.33	mg/kg wet	1.665		95	50-124	3	20	
Dibenzo(a,h)anthracene	1.23	0.33	mg/kg wet	1.665		74	45-134	3	20	
Dibenzofuran	1.47	0.33	mg/kg wet	1.665		88	44-120	4	20	
Diethyl phthalate	1.55	0.33	mg/kg wet	1.665		93	50-124	3	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0033 - 3546										
LCS Dup (P5C0033-BSD1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Dimethyl phthalate	1.54	0.33	mg/kg wet	1.665		92	48-124	4	20	
Di-n-butyl phthalate	1.54	0.33	mg/kg wet	1.665		93	51-128	2	20	
Di-n-octyl phthalate	1.26	0.33	mg/kg wet	1.665		76	45-140	3	20	
Fluoranthene	1.51	0.33	mg/kg wet	1.665		90	50-127	2	20	
Fluorene	1.54	0.33	mg/kg wet	1.665		93	43-125	4	20	
Hexachlorobenzene	1.61	0.33	mg/kg wet	1.665		97	45-122	2	20	
Hexachlorobutadiene	1.35	0.33	mg/kg wet	1.665		81	32-123	7	20	
Hexachlorocyclopentadiene	1.39	0.33	mg/kg wet	1.665		84	32-117	8	20	
Hexachloroethane	1.34	0.33	mg/kg wet	1.665		80	28-117	2	20	
Indeno(1,2,3-cd)pyrene	1.29	0.33	mg/kg wet	1.665		77	45-133	2	20	
Isophorone	1.60	0.33	mg/kg wet	1.665		96	30-122	6	20	
Naphthalene	1.42	0.33	mg/kg wet	1.665		85	35-123	4	20	
Nitrobenzene	1.50	0.33	mg/kg wet	1.665		90	34-122	8	20	
N-Nitroso-di-n-propylamine	1.46	0.33	mg/kg wet	1.665		88	36-120	4	20	
N-Nitrosodiphenylamine	1.58	0.33	mg/kg wet	1.665		95	38-127	2	20	
Pentachlorophenol	1.59	0.33	mg/kg wet	1.665		96	25-133	3	20	
Phenanthrene	1.53	0.33	mg/kg wet	1.665		92	50-121	2	20	
Phenol	1.65	0.33	mg/kg wet	1.665		99	34-121	3	20	
Pyrene	1.56	0.33	mg/kg wet	1.665		94	47-127	2	20	
Surrogate: 2,4,6-Tribromophenol	*3.30*		*mg/kg wet*	*3.330*		*99*	*39-132*			
Surrogate: 2-Fluorobiphenyl	*1.69*		*mg/kg wet*	*1.665*		*101*	*44-115*			
Surrogate: 2-Fluorophenol	*3.41*		*mg/kg wet*	*3.330*		*102*	*35-115*			
Surrogate: Nitrobenzene-d5	*1.55*		*mg/kg wet*	*1.665*		*93*	*37-122*			
Surrogate: Phenol-d5	*3.24*		*mg/kg wet*	*3.330*		*97*	*34-121*			
Surrogate: Terphenyl-d14	*1.76*		*mg/kg wet*	*1.665*		*106*	*54-127*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0018 - MADEP VPH (S)										
Blank (P5C0018-BLK1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	*9.50*		*mg/kg wet*	*10.67*		*89*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*9.85*		*mg/kg wet*	*10.67*		*92*	*70-130*			
LCS (P5C0018-BS1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	33.5	5.0	mg/kg wet	32.00		105	70-130			
C9-C10 Aromatics	10.6	5.0	mg/kg wet	10.67		100	70-130			
C9-C12 Aliphatic	36.4	5.0	mg/kg wet	32.00		114	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*10.9*		*mg/kg wet*	*10.67*		*102*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*11.3*		*mg/kg wet*	*10.67*		*106*	*70-130*			
LCS Dup (P5C0018-BSD1)				Prepared & Analyzed: 03/02/15						
C5-C8 Aliphatics	32.1	5.0	mg/kg wet	32.00		100	70-130	4	50	
C9-C10 Aromatics	10.3	5.0	mg/kg wet	10.67		97	70-130	3	50	
C9-C12 Aliphatic	35.7	5.0	mg/kg wet	32.00		112	70-130	2	50	
Surrogate: 2,5-Dibromotoluene (PID)	*10.4*		*mg/kg wet*	*10.67*		*98*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*10.7*		*mg/kg wet*	*10.67*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Gasoline Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0069 - 5035										
Blank (P5C0069-BLK1)				Prepared & Analyzed: 03/04/15						
Gasoline Range Organics	BRL	5.0	mg/kg wet							
Surrogate: a,a,a-Trifluorotoluene	*5.15*		*mg/kg wet*	*5.000*		*103*	*50-137*			
LCS (P5C0069-BS1)				Prepared & Analyzed: 03/04/15						
Gasoline Range Organics	55.6	5.0	mg/kg wet	50.00		111	41-138			
Surrogate: a,a,a-Trifluorotoluene	*5.05*		*mg/kg wet*	*5.000*		*101*	*50-137*			
LCS Dup (P5C0069-BSD1)				Prepared & Analyzed: 03/04/15						
Gasoline Range Organics	59.6	5.0	mg/kg wet	50.00		119	41-138	7	20	
Surrogate: a,a,a-Trifluorotoluene	*4.85*		*mg/kg wet*	*5.000*		*97*	*50-137*			
Matrix Spike (P5C0069-MS1)		**Source: 5030006-02**		Prepared & Analyzed: 03/04/15						
Gasoline Range Organics	67.1	5.4	mg/kg dry	54.06	BRL	124	41-138			
Surrogate: a,a,a-Trifluorotoluene	*5.41*		*mg/kg dry*	*5.406*		*100*	*50-137*			
Matrix Spike Dup (P5C0069-MSD1)		**Source: 5030006-02**		Prepared & Analyzed: 03/04/15						
Gasoline Range Organics	72.9	5.6	mg/kg dry	55.66	BRL	131	41-138	8	34	
Surrogate: a,a,a-Trifluorotoluene	*6.01*		*mg/kg dry*	*5.566*		*108*	*50-137*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0037 - 3546										
Blank (P5C0037-BLK1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	BRL	10	mg/kg wet							
C19-C36 Aliphatics	2.65	10	mg/kg wet							J
C11-C22 Aromatics	BRL	10	mg/kg wet							
Surrogate: 1-Chlorooctadecane	*1.59*		*mg/kg wet*	*2.000*		*80*	*40-140*			
Surrogate: o-Terphenyl	*1.51*		*mg/kg wet*	*2.000*		*76*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.57*		*mg/kg wet*	*4.000*		*89*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.30*		*mg/kg wet*	*4.000*		*83*	*40-140*			
LCS (P5C0037-BS1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	34.3	10	mg/kg wet	60.00		57	40-140			
C19-C36 Aliphatics	66.1	10	mg/kg wet	80.00		83	40-140			
C11-C22 Aromatics	148	10	mg/kg wet	170.0		87	40-140			
Surrogate: 1-Chlorooctadecane	*1.81*		*mg/kg wet*	*2.000*		*91*	*40-140*			
Surrogate: o-Terphenyl	*1.86*		*mg/kg wet*	*2.000*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*3.76*		*mg/kg wet*	*4.000*		*94*	*40-140*			
Surrogate: 2-Bromonaphthalene	*3.81*		*mg/kg wet*	*4.000*		*95*	*40-140*			
LCS Dup (P5C0037-BSD1)				Prepared: 03/03/15 Analyzed: 03/05/15						
C9-C18 Aliphatics	33.0	10	mg/kg wet	60.00		55	40-140	4	50	
C19-C36 Aliphatics	63.2	10	mg/kg wet	80.00		79	40-140	5	50	
C11-C22 Aromatics	135	10	mg/kg wet	170.0		79	40-140	9	50	
Surrogate: 1-Chlorooctadecane	*1.56*		*mg/kg wet*	*2.000*		*78*	*40-140*			
Surrogate: o-Terphenyl	*1.61*		*mg/kg wet*	*2.000*		*80*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*4.00*		*mg/kg wet*	*4.000*		*100*	*40-140*			
Surrogate: 2-Bromonaphthalene	*4.09*		*mg/kg wet*	*4.000*		*102*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Diesel Range Organics by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0091 - 3546										
Blank (P5C0091-BLK1)				Prepared & Analyzed: 03/05/15						
Diesel Range Organics	BRL	7.0	mg/kg wet							
Surrogate: o-Terphenyl	*0.855*		*mg/kg wet*	*1.333*		*64*	*49-124*			
LCS (P5C0091-BS1)				Prepared & Analyzed: 03/05/15						
Diesel Range Organics	66.1	7.0	mg/kg wet	66.56		99	55-109			
Surrogate: o-Terphenyl	*1.40*		*mg/kg wet*	*1.331*		*105*	*49-124*			
LCS Dup (P5C0091-BSD1)				Prepared & Analyzed: 03/05/15						
Diesel Range Organics	64.9	7.0	mg/kg wet	66.64		97	55-109	2	20	
Surrogate: o-Terphenyl	*1.38*		*mg/kg wet*	*1.333*		*103*	*49-124*			
Matrix Spike (P5C0091-MS1)		**Source: 5030006-08**		Prepared & Analyzed: 03/05/15						
Diesel Range Organics	83.1	9.4	mg/kg dry	89.07	1.72	91	50-117			
Surrogate: o-Terphenyl	*1.91*		*mg/kg dry*	*1.781*		*107*	*49-124*			
Matrix Spike Dup (P5C0091-MSD1)		**Source: 5030006-08**		Prepared & Analyzed: 03/05/15						
Diesel Range Organics	83.1	9.3	mg/kg dry	88.87	1.72	92	50-117	0.03	24	
Surrogate: o-Terphenyl	*1.73*		*mg/kg dry*	*1.777*		*98*	*49-124*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0024 - 3050B										
Blank (P5C0024-BLK1)				Prepared & Analyzed: 03/03/15						
Chromium	BRL	0.25	mg/kg wet							
Lead	0.284	0.25	mg/kg wet							BH
LCS (P5C0024-BS1)				Prepared & Analyzed: 03/03/15						
Chromium	26.1	0.25	mg/kg wet	25.00		104	80-120			
Lead	24.9	0.25	mg/kg wet	25.00		100	80-120			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030006
Time Submitted: 2/27/2015 4:45:00PM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0095 - Solids, Dry Weight										
Blank (P5C0095-BLK1)				Prepared & Analyzed: 03/05/15						
% Solids	100	0.100	% by Weight							
Duplicate (P5C0095-DUP2)		**Source: 5030006-02**		Prepared & Analyzed: 03/05/15						
% Solids	88.5	0.100	% by Weight		88.6			0.08	20	

Sample Extraction Data

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5030006-03	P5C0091	30.01 g	1 mL	03/05/15 12:00
5030006-04	P5C0091	30 g	1 mL	03/05/15 12:00
5030006-07	P5C0091	30 g	1 mL	03/05/15 12:00
5030006-08	P5C0091	30.02 g	1 mL	03/05/15 12:00
5030006-11	P5C0091	30.01 g	1 mL	03/05/15 12:00

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5030006-01	P5C0037	10.01 g	2 mL	03/03/15 11:10
5030006-07	P5C0037	10.01 g	2 mL	03/03/15 11:10
5030006-08	P5C0037	10.02 g	2 mL	03/03/15 11:10
5030006-09	P5C0037	10.02 g	2 mL	03/03/15 11:10

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5030006-02	P5C0069	5.04 g	5 mL	03/04/15 12:38
5030006-03	P5C0069	4.7 g	5 mL	03/04/15 12:38
5030006-04	P5C0069	4.78 g	5 mL	03/04/15 12:38
5030006-05	P5C0069	5.91 g	5 mL	03/04/15 12:38
5030006-06	P5C0069	5.41 g	5 mL	03/04/15 12:38
5030006-07	P5C0069	6.48 g	5 mL	03/04/15 12:38
5030006-08	P5C0069	5.87 g	5 mL	03/04/15 12:38
5030006-10	P5C0069	5.63 g	5 mL	03/04/15 12:38
5030006-11	P5C0069	5.58 g	5 mL	03/04/15 12:38

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
5030006-01	P5C0095	30 g	30 g	03/05/15 12:45
5030006-02	P5C0095	30 g	30 g	03/05/15 12:45
5030006-03	P5C0095	30 g	30 g	03/05/15 12:45
5030006-04	P5C0095	30 g	30 g	03/05/15 12:45
5030006-05	P5C0095	30 g	30 g	03/05/15 12:45
5030006-06	P5C0095	30 g	30 g	03/05/15 12:45
5030006-07	P5C0095	30 g	30 g	03/05/15 12:45
5030006-08	P5C0095	30 g	30 g	03/05/15 12:45
5030006-09	P5C0095	30 g	30 g	03/05/15 12:45
5030006-10	P5C0095	30 g	30 g	03/05/15 12:45
5030006-11	P5C0095	30 g	30 g	03/05/15 12:45

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5030006-01	P5C0033	30.05 g	1 mL	03/03/15 10:50
5030006-07	P5C0033	30.02 g	1 mL	03/03/15 10:50
5030006-08	P5C0033	30.05 g	1 mL	03/03/15 10:50
5030006-09	P5C0033	30.03 g	1 mL	03/03/15 10:50

Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
5030006-01	P5C0024	2.02 g	50 mL	03/03/15 9:17
5030006-07	P5C0024	1.99 g	50 mL	03/03/15 9:17
5030006-08	P5C0024	2 g	50 mL	03/03/15 9:17
5030006-09	P5C0024	1.99 g	50 mL	03/03/15 9:17

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Extraction Data

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5030006-01	P5C0014	5.04 g	5 mL	03/02/15 12:54
5030006-02	P5C0014	4.66 g	5 mL	03/02/15 12:54
5030006-03	P5C0014	4.63 g	5 mL	03/02/15 12:54
5030006-04	P5C0014	3.96 g	5 mL	03/02/15 12:54
5030006-05	P5C0014	5.84 g	5 mL	03/02/15 12:54
5030006-06	P5C0014	4.99 g	5 mL	03/02/15 12:54
5030006-07	P5C0014	5.47 g	5 mL	03/02/15 12:54
5030006-08	P5C0014	5.49 g	5 mL	03/02/15 12:54
5030006-09	P5C0014	5.55 g	5 mL	03/02/15 12:54
5030006-10	P5C0014	5.62 g	5 mL	03/02/15 12:54
5030006-11	P5C0014	5.14 g	5 mL	03/02/15 12:54

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5030006-03	P5C0060	4.78 g	5 mL	03/03/15 9:39
5030006-04	P5C0060	4.36 g	5 mL	03/03/15 9:39
5030006-11	P5C0060	5.11 g	5 mL	03/03/15 9:39

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date/Time
5030006-01	P5C0018	17.14 g	16 mL	03/02/15 15:03
5030006-07	P5C0018	18.46 g	16 mL	03/02/15 15:03
5030006-08	P5C0018	15.01 g	16 mL	03/02/15 15:03
5030006-09	P5C0018	17.57 g	16 mL	03/02/15 15:03

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE____ OF ____ QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Charlotte Airport Rental Car Facilities
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Client Company Name: URS
Report To/Contact Name: James McDorman
Reporting Address: 6000 Fairview Road, Suite 1200 Charlotte, NC
Phone: 704-716-[illegible] Fax (Yes) (No): _____
Email Address: James.McDorman@AECOM.com
EDD Type: PDF____ Excel____ Other_____
Site Location Name: Rental Car Facilities
Site Location Physical Address: Rental Car Rd

Invoice To: Michelle Friedman
Address: 9125 Carnegie Blvd, Suite 320 Charlotte, NC 28269
Purchase Order No./Billing Reference 60340238

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☑ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR1-10 Observed: 5.8 °C / Corr: 4.9 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X
SC____ OTHER_____ N/A_____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8620	DRO	GRO	VPH+EPH	Pb+Cr	SVOC	REMARKS	PRISM LAB ID NO.
Enterprise TMW-4	2/26/15	1625	Soil	VOA+6	7	40 mL 4oz 8oz	methanol + None	X			X	X	X		01
Enterprise B1	↓	1630			6	40 mL 2oz		X	X	X				No DRO	02
National TMW-1 (1 of 2)	2/27/15	1400			6	40 mL 4oz		X	X	X					03
National TMW-1 (5-10)		1405			6	↓		X	X	X					04
National TMW-2		1200			6	40 mL 2oz		X	X	X				No DRO	05
National TMW-3		1100			6	↓		X		X					06
National TMW-4 (4-6)		1000			10	40mL, 4oz 8oz		X	X	X	X	X	X		07
National TMW-4 (10-12)		1005			10	40 mL 4oz 8oz		X	X	X	X	X	X		08
National B1		1515			7	↓		X			X	X	X		09
National Dup2		1105			6	40mL 2oz		X		X					10

Sampler's Signature _____ Sampled By (Print Name) Andrew Wresching Affiliation URS/AECOM

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	2-27-15	1620
Relinquished By: (Signature) 2-27-15 1645	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	2/27/15	1645

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☑ Prism Field Service ☐ Other_____
COC Group No. 5030006

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____	☐ NC ☐ SC ☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Charlotte Airport Rental Car Facilities

Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Client Company Name: URS

Report To/Contact Name: James McDermon

Reporting Address: 6000 Fairview Rd Suite 200 Charlotte, NC

Phone: 704-716-0734 Fax (Yes) (No): _____

Email Address: James.McDermon@AECOM.com

EDD Type: PDF ___ Excel ___ Other _____

Site Location Name: Rental Car Facilities

Site Location Physical Address: Rental Car Road

Invoice To: Michelle Goodman

Address: 5925 Carnegie Blvd Suite 320 Charlotte, NC 28209

Purchase Order No./Billing Reference 60340238

Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days

"Working Days" ❑ 6-9 Days ☒ Standard 10 days ❑ Rush Work Must Be Pre-Approved

Samples received after 14:00 will be processed next business day.

Turnaround time is based on business days, excluding weekends and holidays.

(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			—
VOLATILES rec'd W/OUT HEADSPACE?			—
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: DLT-10 Observed: 5.8 °C / Corr: 4.9°C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC____ DoD____ FL_____ NC☒

SC____ OTHER_____ N/A_____

Water Chlorinated: YES___ NO___

Sample Iced Upon Collection: YES☒ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED VOC	DRO	GRO				REMARKS	PRISM LAB ID NO.
National BCR	2/27/15	1500	Soil	VOA+G	6	40ml 4oz	Methanol None	X	X	X					11

Sampler's Signature _____ Sampled By (Print Name) Andrew Wresch Affiliation URS/AECOM

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	2/27/15	1620
Relinquished By: (Signature) 2/27/15 1645	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 2/27/15	1645

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

❑ Fed Ex ❑ UPS ❑ Hand-delivered ❑ Prism Field Service ❑ Other _____

COC Group No. 5010096

Additional Comments:

PRISM USE ONLY

Site Arrival Time:

Site Departure Time:

Field Tech Fee:

Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC
❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/05/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/20/2015
Prism Work Order: 5020408

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones

President/Project Manager

Reviewed By Robbi A. Jones

President/Project Manager

Data Qualifiers Key Reference:

A	Low CCV recovery.
D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L	Parameter reported with possible low bias. LCS recovery below the QC limit.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

03/05/2015

Prism Work Order: 5020408

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Budget TMW-1	5020408-01	Water	02/20/15	02/20/15
Budget TMW-2	5020408-02	Water	02/20/15	02/20/15
Budget TMW-5	5020408-03	Water	02/20/15	02/20/15
Duplicate-1	5020408-04	Water	02/20/15	02/20/15

Samples were received in good condition at 5.4 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/05/2015

Prism Work Order: 5020408

Prism ID	Client ID	Parameter	Method	Result		Units
5020408-01	Budget TMW-1	Chromium	*6010C	0.013		mg/L
5020408-02	Budget TMW-2	Unknown (1)	625	10		ug/L
5020408-02	Budget TMW-2	cis-1,2-Dichloroethylene	SM6200 B	12		ug/L
5020408-02	Budget TMW-2	trans-1,2-Dichloroethylene	SM6200 B	1.0		ug/L
5020408-02	Budget TMW-2	C5-C8 Aliphatics	MADEP VPH	7.3	J	ug/L
5020408-03	Budget TMW-5	Isopropyl Ether	SM6200 B	62		ug/L
5020408-03	Budget TMW-5	Methyl Ethyl Ketone (2-Butanone)	SM6200 B	4.5	J	ug/L
5020408-03	Budget TMW-5	Methyl-tert-Butyl Ether	SM6200 B	610		ug/L
5020408-03	Budget TMW-5	tert-Amyl Alcohol	SM6200 B	620	A	ug/L
5020408-03	Budget TMW-5	tert-Amyl Methyl Ether	SM6200 B	4.0	J	ug/L
5020408-03	Budget TMW-5	tert-Butyl Alcohol	SM6200 B	680	A	ug/L
5020408-03	Budget TMW-5	C5-C8 Aliphatics	MADEP VPH	840		ug/L
5020408-04	Duplicate-1	cis-1,2-Dichloroethylene	SM6200 B	12		ug/L
5020408-04	Duplicate-1	trans-1,2-Dichloroethylene	SM6200 B	1.0		ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-1
Prism Sample ID: 5020408-01
Prism Work Order: 5020408
Time Collected: 02/20/15 11:45
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	2/26/15 15:40	KC	P5B0466
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	2/26/15 15:40	KC	P5B0466
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	2/26/15 15:40	KC	P5B0466

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*73 %*	*40-140*
o-Terphenyl	*83 %*	*40-140*
2-Fluorobiphenyl	*84 %*	*40-140*
2-Bromonaphthalene	*80 %*	*40-140*

Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	2/25/15 14:26	KC	P5B0452
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	2/25/15 14:26	KC	P5B0452
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	2/25/15 14:26	KC	P5B0452
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	2/25/15 14:26	KC	P5B0452
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	2/25/15 14:26	KC	P5B0452
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	2/25/15 14:26	KC	P5B0452
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	2/25/15 14:26	KC	P5B0452
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	2/25/15 14:26	KC	P5B0452
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	2/25/15 14:26	KC	P5B0452
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	2/25/15 14:26	KC	P5B0452
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	2/25/15 14:26	KC	P5B0452
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	2/25/15 14:26	KC	P5B0452
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	2/25/15 14:26	KC	P5B0452
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	2/25/15 14:26	KC	P5B0452
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	2/25/15 14:26	KC	P5B0452
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	2/25/15 14:26	KC	P5B0452
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	2/25/15 14:26	KC	P5B0452
Acenaphthene	BRL	ug/L	10	1.7	1	625	2/25/15 14:26	KC	P5B0452
Acenaphthylene	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
Anthracene	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
Benzidine	BRL	ug/L	100	2.9	1	625	2/25/15 14:26	KC	P5B0452
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	2/25/15 14:26	KC	P5B0452
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	2/25/15 14:26	KC	P5B0452
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	2/25/15 14:26	KC	P5B0452
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	2/25/15 14:26	KC	P5B0452
Benzoic Acid	BRL	ug/L	100	1.0	1	625	2/25/15 14:26	KC	P5B0452

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-1
Prism Sample ID: 5020408-01
Prism Work Order: 5020408
Time Collected: 02/20/15 11:45
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	2/25/15 14:26	KC	P5B0452
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	2/25/15 14:26	KC	P5B0452
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	2/25/15 14:26	KC	P5B0452
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	2/25/15 14:26	KC	P5B0452
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	2/25/15 14:26	KC	P5B0452
Chrysene	BRL	ug/L	10	1.4	1	625	2/25/15 14:26	KC	P5B0452
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
Dibenzofuran	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	2/25/15 14:26	KC	P5B0452
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	2/25/15 14:26	KC	P5B0452
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	2/25/15 14:26	KC	P5B0452
Fluoranthene	BRL	ug/L	10	1.4	1	625	2/25/15 14:26	KC	P5B0452
Fluorene	BRL	ug/L	10	1.5	1	625	2/25/15 14:26	KC	P5B0452
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	2/25/15 14:26	KC	P5B0452
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	2/25/15 14:26	KC	P5B0452
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
Hexachloroethane	BRL	ug/L	10	2.0	1	625	2/25/15 14:26	KC	P5B0452
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	2/25/15 14:26	KC	P5B0452
Isophorone	BRL	ug/L	10	1.5	1	625	2/25/15 14:26	KC	P5B0452
Naphthalene	BRL	ug/L	10	1.6	1	625	2/25/15 14:26	KC	P5B0452
Nitrobenzene	BRL	ug/L	10	1.4	1	625	2/25/15 14:26	KC	P5B0452
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	2/25/15 14:26	KC	P5B0452
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	2/25/15 14:26	KC	P5B0452
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	2/25/15 14:26	KC	P5B0452
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	2/25/15 14:26	KC	P5B0452
Phenanthrene	BRL	ug/L	10	1.4	1	625	2/25/15 14:26	KC	P5B0452
Phenol	BRL	ug/L	10	0.90	1	625	2/25/15 14:26	KC	P5B0452
Pyrene	BRL	ug/L	10	1.5	1	625	2/25/15 14:26	KC	P5B0452
TIC: Tentatively Identified Compounds	Not Detected	ug/L			1	625	2/25/15 14:26	KC	P5B0452

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*60 %*	*31-144*
2-Fluorobiphenyl	*81 %*	*49-118*
2-Fluorophenol	*43 %*	*22-84*
Nitrobenzene-d5	*91 %*	*43-123*
Phenol-d5	*31 %*	*10-63*
Terphenyl-d14	*78 %*	*49-151*

Total Metals

Chromium	**0.013**	**mg/L**	**0.0050**	**0.00038**	**1**	***6010C**	**2/25/15 15:52**	**BGM**	**P5B0457**
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	2/25/15 15:52	BGM	P5B0457

Volatile Organic Compounds by GC/MS

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-1
Prism Sample ID: 5020408-01
Prism Work Order: 5020408
Time Collected: 02/20/15 11:45
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/23/15 21:55	VHL	P5B0451

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-1
Prism Sample ID: 5020408-01
Prism Work Order: 5020408
Time Collected: 02/20/15 11:45
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
tert-Amyl Alcohol	BRL A	ug/L	10	0.72	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
tert-Butyl Alcohol	BRL A	ug/L	10	0.64	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/23/15 21:55	VHL	P5B0451
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/23/15 21:55	VHL	P5B0451

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*70-130*
Dibromofluoromethane	*107 %*	*70-130*
Toluene-d8	*103 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	2/25/15 16:57	ANG	P5B0473
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	2/25/15 16:57	ANG	P5B0473
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	2/25/15 16:57	ANG	P5B0473

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*98 %*	*70-130*
2,5-Dibromotoluene (FID)	*99 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-2
Prism Sample ID: 5020408-02
Prism Work Order: 5020408
Time Collected: 02/20/15 09:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	2/26/15 16:17	KC	P5B0466
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	2/26/15 16:17	KC	P5B0466
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	2/26/15 16:17	KC	P5B0466
			Surrogate			Recovery		Control Limits	
			1-Chlorooctadecane			*83 %*		*40-140*	
			o-Terphenyl			*91 %*		*40-140*	
			2-Fluorobiphenyl			*92 %*		*40-140*	
			2-Bromonaphthalene			*87 %*		*40-140*	
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	2/25/15 14:47	KC	P5B0452
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	2/25/15 14:47	KC	P5B0452
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	2/25/15 14:47	KC	P5B0452
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	2/25/15 14:47	KC	P5B0452
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	2/25/15 14:47	KC	P5B0452
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	2/25/15 14:47	KC	P5B0452
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	2/25/15 14:47	KC	P5B0452
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	2/25/15 14:47	KC	P5B0452
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	2/25/15 14:47	KC	P5B0452
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	2/25/15 14:47	KC	P5B0452
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	2/25/15 14:47	KC	P5B0452
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	2/25/15 14:47	KC	P5B0452
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	2/25/15 14:47	KC	P5B0452
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	2/25/15 14:47	KC	P5B0452
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	2/25/15 14:47	KC	P5B0452
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	2/25/15 14:47	KC	P5B0452
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	2/25/15 14:47	KC	P5B0452
Acenaphthene	BRL	ug/L	10	1.7	1	625	2/25/15 14:47	KC	P5B0452
Acenaphthylene	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
Anthracene	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
Benzidine	BRL	ug/L	100	2.9	1	625	2/25/15 14:47	KC	P5B0452
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	2/25/15 14:47	KC	P5B0452
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	2/25/15 14:47	KC	P5B0452
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	2/25/15 14:47	KC	P5B0452
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	2/25/15 14:47	KC	P5B0452
Benzoic Acid	BRL	ug/L	100	1.0	1	625	2/25/15 14:47	KC	P5B0452

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-2
Prism Sample ID: 5020408-02
Prism Work Order: 5020408
Time Collected: 02/20/15 09:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	2/25/15 14:47	KC	P5B0452
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	2/25/15 14:47	KC	P5B0452
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	2/25/15 14:47	KC	P5B0452
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	2/25/15 14:47	KC	P5B0452
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	2/25/15 14:47	KC	P5B0452
Chrysene	BRL	ug/L	10	1.4	1	625	2/25/15 14:47	KC	P5B0452
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
Dibenzofuran	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	2/25/15 14:47	KC	P5B0452
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	2/25/15 14:47	KC	P5B0452
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	2/25/15 14:47	KC	P5B0452
Fluoranthene	BRL	ug/L	10	1.4	1	625	2/25/15 14:47	KC	P5B0452
Fluorene	BRL	ug/L	10	1.5	1	625	2/25/15 14:47	KC	P5B0452
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	2/25/15 14:47	KC	P5B0452
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	2/25/15 14:47	KC	P5B0452
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
Hexachloroethane	BRL	ug/L	10	2.0	1	625	2/25/15 14:47	KC	P5B0452
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	2/25/15 14:47	KC	P5B0452
Isophorone	BRL	ug/L	10	1.5	1	625	2/25/15 14:47	KC	P5B0452
Naphthalene	BRL	ug/L	10	1.6	1	625	2/25/15 14:47	KC	P5B0452
Nitrobenzene	BRL	ug/L	10	1.4	1	625	2/25/15 14:47	KC	P5B0452
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	2/25/15 14:47	KC	P5B0452
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	2/25/15 14:47	KC	P5B0452
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	2/25/15 14:47	KC	P5B0452
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	2/25/15 14:47	KC	P5B0452
Phenanthrene	BRL	ug/L	10	1.4	1	625	2/25/15 14:47	KC	P5B0452
Phenol	BRL	ug/L	10	0.90	1	625	2/25/15 14:47	KC	P5B0452
Pyrene	BRL	ug/L	10	1.5	1	625	2/25/15 14:47	KC	P5B0452
TIC: Unknown (1)	**10**	**ug/L**			**1**	**625**	**2/25/15 14:47**	**KC**	**P5B0452**

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*77 %*	*31-144*
2-Fluorobiphenyl	*86 %*	*49-118*
2-Fluorophenol	*49 %*	*22-84*
Nitrobenzene-d5	*85 %*	*43-123*
Phenol-d5	*33 %*	*10-63*
Terphenyl-d14	*90 %*	*49-151*

Total Metals

Chromium	BRL	mg/L	0.0050	0.00038	1	*6010C	2/25/15 16:16	BGM	P5B0457
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	2/25/15 16:16	BGM	P5B0457

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 20:13	VHL	P5B0451

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-2
Prism Sample ID: 5020408-02
Prism Work Order: 5020408
Time Collected: 02/20/15 09:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
cis-1,2-Dichloroethylene	**12**	**ug/L**	**0.50**	**0.056**	**1**	**SM6200 B**	**2/23/15 20:13**	**VHL**	**P5B0451**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/23/15 20:13	VHL	P5B0451

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-2
Prism Sample ID: 5020408-02
Prism Work Order: 5020408
Time Collected: 02/20/15 09:30
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
tert-Amyl Alcohol	BRL A	ug/L	10	0.72	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
tert-Butyl Alcohol	BRL A	ug/L	10	0.64	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
trans-1,2-Dichloroethylene	**1.0**	**ug/L**	**0.50**	**0.070**	**1**	**SM6200 B**	**2/23/15 20:13**	**VHL**	**P5B0451**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/23/15 20:13	VHL	P5B0451
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/23/15 20:13	VHL	P5B0451

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*70-130*
Dibromofluoromethane	*105 %*	*70-130*
Toluene-d8	*100 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**7.3 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**2/25/15 17:30**	**ANG**	**P5B0473**
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	2/25/15 17:30	ANG	P5B0473
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	2/25/15 17:30	ANG	P5B0473

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*93 %*	*70-130*
2,5-Dibromotoluene (FID)	*94 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-5
Prism Sample ID: 5020408-03
Prism Work Order: 5020408
Time Collected: 02/20/15 14:00
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/23/15 21:21	VHL	P5B0451

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-5
Prism Sample ID: 5020408-03
Prism Work Order: 5020408
Time Collected: 02/20/15 14:00
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Isopropyl Ether	**62**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**2/23/15 21:21**	**VHL**	**P5B0451**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Methyl Ethyl Ketone (2-Butanone)	**4.5 J**	**ug/L**	**5.0**	**0.24**	**1**	**SM6200 B**	**2/23/15 21:21**	**VHL**	**P5B0451**
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Methyl-tert-Butyl Ether	**610**	**ug/L**	**20**	**0.85**	**20**	**SM6200 B**	**2/25/15 0:50**	**VHL**	**P5B0451**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
tert-Amyl Alcohol	**620 A**	**ug/L**	**200**	**14**	**20**	**SM6200 B**	**2/25/15 0:50**	**VHL**	**P5B0451**
tert-Amyl Methyl Ether	**4.0 J**	**ug/L**	**10**	**0.10**	**1**	**SM6200 B**	**2/23/15 21:21**	**VHL**	**P5B0451**
tert-Butyl Alcohol	**680 A**	**ug/L**	**200**	**13**	**20**	**SM6200 B**	**2/25/15 0:50**	**VHL**	**P5B0451**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/23/15 21:21	VHL	P5B0451
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/23/15 21:21	VHL	P5B0451

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*70-130*
Dibromofluoromethane	*102 %*	*70-130*
Toluene-d8	*102 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**840**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**2/25/15 18:02**	**ANG**	**P5B0473**
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	2/25/15 18:02	ANG	P5B0473
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	2/25/15 18:02	ANG	P5B0473

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*98 %*	*70-130*
2,5-Dibromotoluene (FID)	*98 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Duplicate-1
Prism Sample ID: 5020408-04
Prism Work Order: 5020408
Time Collected: 02/20/15 08:00
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
cis-1,2-Dichloroethylene	**12**	**ug/L**	**0.50**	**0.056**	**1**	**SM6200 B**	**2/23/15 20:47**	**VHL**	**P5B0451**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/23/15 20:47	VHL	P5B0451

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Duplicate-1
Prism Sample ID: 5020408-04
Prism Work Order: 5020408
Time Collected: 02/20/15 08:00
Time Submitted: 02/20/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
tert-Amyl Alcohol	BRL A	ug/L	10	0.72	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
tert-Butyl Alcohol	BRL A	ug/L	10	0.64	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
trans-1,2-Dichloroethylene	**1.0**	**ug/L**	**0.50**	**0.070**	**1**	**SM6200 B**	**2/23/15 20:47**	**VHL**	**P5B0451**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/23/15 20:47	VHL	P5B0451
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/23/15 20:47	VHL	P5B0451

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*105 %*	*70-130*
Dibromofluoromethane	*105 %*	*70-130*
Toluene-d8	*98 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0451 - SM6200 B										
Blank (P5B0451-BLK1)				Prepared & Analyzed: 02/23/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	0.50	ug/L							
1,2,4-Trichlorobenzene	BRL	0.50	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	10	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	0.50	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethanol	BRL	200	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0451 - SM6200 B										
Blank (P5B0451-BLK1)				Prepared & Analyzed: 02/23/15						
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	1.0	ug/L							
Methylene Chloride	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	1.0	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	0.50	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Amyl Alcohol	BRL	10	ug/L							
tert-Amyl Methyl Ether	BRL	10	ug/L							
tert-Butyl Alcohol	BRL	10	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
tert-Butyl Ethyl Ether	BRL	10	ug/L							
tert-Butyl Formate	BRL	10	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	5.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/L*	*25.00*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*26.4*		*ug/L*	*25.00*		*106*	*70-130*			
Surrogate: Toluene-d8	*25.4*		*ug/L*	*25.00*		*102*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0451 - SM6200 B										
LCS (P5B0451-BS1)				Prepared & Analyzed: 02/23/15						
1,1,1,2-Tetrachloroethane	20.0	0.50	ug/L	20.00		100	70-130			
1,1,1-Trichloroethane	21.0	0.50	ug/L	20.00		105	70-130			
1,1,2,2-Tetrachloroethane	18.4	0.50	ug/L	20.00		92	70-130			
1,1,2-Trichloroethane	19.7	0.50	ug/L	20.00		98	70-130			
1,1-Dichloroethane	19.4	0.50	ug/L	20.00		97	70-130			
1,1-Dichloroethylene	21.8	0.50	ug/L	20.00		109	70-130			
1,1-Dichloropropylene	23.3	0.50	ug/L	20.00		117	70-130			
1,2,3-Trichlorobenzene	20.2	0.50	ug/L	20.00		101	70-130			
1,2,3-Trichloropropane	17.8	0.50	ug/L	20.00		89	70-130			
1,2,4-Trichlorobenzene	21.3	0.50	ug/L	20.00		106	70-130			
1,2,4-Trimethylbenzene	21.4	0.50	ug/L	20.00		107	70-130			
1,2-Dibromo-3-chloropropane	19.4	2.0	ug/L	20.00		97	70-130			
1,2-Dibromoethane	20.4	0.50	ug/L	20.00		102	70-130			
1,2-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	70-130			
1,2-Dichloroethane	19.5	0.50	ug/L	20.00		97	70-130			
1,2-Dichloropropane	19.6	0.50	ug/L	20.00		98	70-130			
1,3,5-Trimethylbenzene	22.1	0.50	ug/L	20.00		110	70-130			
1,3-Dichlorobenzene	20.1	0.50	ug/L	20.00		101	70-130			
1,3-Dichloropropane	19.1	0.50	ug/L	20.00		95	70-130			
1,4-Dichlorobenzene	19.7	0.50	ug/L	20.00		98	70-130			
2,2-Dichloropropane	21.8	2.0	ug/L	20.00		109	70-130			
2-Chlorotoluene	20.9	0.50	ug/L	20.00		104	70-130			
4-Chlorotoluene	20.6	0.50	ug/L	20.00		103	70-130			
4-Isopropyltoluene	22.6	0.50	ug/L	20.00		113	70-130			
Acetone	40.1	10	ug/L	40.00		100	40-160			
Benzene	21.4	0.50	ug/L	20.00		107	70-130			
Bromobenzene	19.8	0.50	ug/L	20.00		99	70-130			
Bromochloromethane	21.3	0.50	ug/L	20.00		107	70-130			
Bromodichloromethane	18.3	0.50	ug/L	20.00		92	70-130			
Bromoform	17.7	0.50	ug/L	20.00		88	70-130			
Bromomethane	17.2	1.0	ug/L	20.00		86	60-140			
Carbon Tetrachloride	21.2	0.50	ug/L	20.00		106	70-130			
Chlorobenzene	20.1	0.50	ug/L	20.00		100	70-130			
Chloroethane	21.6	0.50	ug/L	20.00		108	60-140			
Chloroform	18.7	0.50	ug/L	20.00		93	70-130			
Chloromethane	20.9	0.50	ug/L	20.00		104	60-140			
cis-1,2-Dichloroethylene	19.8	0.50	ug/L	20.00		99	70-130			
cis-1,3-Dichloropropylene	21.1	0.50	ug/L	20.00		106	70-130			
Dibromochloromethane	18.3	0.50	ug/L	20.00		91	70-130			
Dibromomethane	18.0	0.50	ug/L	20.00		90	70-130			
Dichlorodifluoromethane	23.6	1.0	ug/L	20.00		118	60-140			
Ethanol	328	200	ug/L	500.0		66	60-140			
Ethylbenzene	20.4	0.50	ug/L	20.00		102	70-130			
Hexachlorobutadiene	22.2	2.0	ug/L	20.00		111	70-130			
Isopropyl Ether	17.7	0.50	ug/L	20.00		89	70-130			
Isopropylbenzene (Cumene)	23.0	0.50	ug/L	20.00		115	70-130			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0451 - SM6200 B										
LCS (P5B0451-BS1)				Prepared & Analyzed: 02/23/15						
m,p-Xylenes	42.4	1.0	ug/L	40.00		106	70-130			
Methyl Butyl Ketone (2-Hexanone)	19.3	1.0	ug/L	20.00		97	60-140			
Methyl Ethyl Ketone (2-Butanone)	20.4	5.0	ug/L	20.00		102	60-140			
Methyl Isobutyl Ketone	18.5	1.0	ug/L	20.00		92	60-140			
Methylene Chloride	20.6	2.0	ug/L	20.00		103	70-130			
Methyl-tert-Butyl Ether	19.6	1.0	ug/L	20.00		98	70-130			
Naphthalene	20.3	1.0	ug/L	20.00		101	70-130			
n-Butylbenzene	22.4	0.50	ug/L	20.00		112	70-130			
n-Propylbenzene	22.3	0.50	ug/L	20.00		112	70-130			
o-Xylene	21.1	0.50	ug/L	20.00		106	70-130			
sec-Butylbenzene	21.2	0.50	ug/L	20.00		106	70-130			
Styrene	21.3	0.50	ug/L	20.00		107	70-130			
tert-Amyl Alcohol	25.0	10	ug/L	20.00		125	70-130			
tert-Amyl Methyl Ether	41.1	10	ug/L	40.00		103	70-130			
tert-Butyl Alcohol	32.4	10	ug/L	40.00		81	70-130			
tert-Butylbenzene	22.1	0.50	ug/L	20.00		111	70-130			
tert-Butyl Ethyl Ether	40.2	10	ug/L	40.00		101	70-130			
tert-Butyl Formate	41.4	10	ug/L	40.00		104	70-130			
Tetrachloroethylene	20.1	0.50	ug/L	20.00		100	70-130			
Toluene	20.8	0.50	ug/L	20.00		104	70-130			
trans-1,2-Dichloroethylene	21.5	0.50	ug/L	20.00		108	70-130			
trans-1,3-Dichloropropylene	21.2	0.50	ug/L	20.00		106	70-130			
Trichloroethylene	21.5	0.50	ug/L	20.00		108	70-130			
Trichlorofluoromethane	23.5	0.50	ug/L	20.00		117	60-140			
Vinyl acetate	21.4	5.0	ug/L	20.00		107	60-140			
Vinyl chloride	22.3	0.50	ug/L	20.00		111	60-140			
Xylenes, total	63.5	1.5	ug/L	60.00		106	70-130			
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/L*	*25.00*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/L*	*25.00*		*101*	*70-130*			
Surrogate: Toluene-d8	*24.4*		*ug/L*	*25.00*		*98*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0451 - SM6200 B										
LCS Dup (P5B0451-BSD1)				Prepared & Analyzed: 02/23/15						
1,1,1,2-Tetrachloroethane	20.0	0.50	ug/L	20.00		100	70-130	0.1	20	
1,1,1-Trichloroethane	20.7	0.50	ug/L	20.00		103	70-130	2	20	
1,1,2,2-Tetrachloroethane	18.4	0.50	ug/L	20.00		92	70-130	0.05	20	
1,1,2-Trichloroethane	19.2	0.50	ug/L	20.00		96	70-130	2	20	
1,1-Dichloroethane	19.7	0.50	ug/L	20.00		98	70-130	2	20	
1,1-Dichloroethylene	21.8	0.50	ug/L	20.00		109	70-130	0.3	20	
1,1-Dichloropropylene	23.2	0.50	ug/L	20.00		116	70-130	0.6	20	
1,2,3-Trichlorobenzene	20.9	0.50	ug/L	20.00		105	70-130	3	20	
1,2,3-Trichloropropane	19.0	0.50	ug/L	20.00		95	70-130	6	20	
1,2,4-Trichlorobenzene	22.4	0.50	ug/L	20.00		112	70-130	5	20	
1,2,4-Trimethylbenzene	22.3	0.50	ug/L	20.00		111	70-130	4	20	
1,2-Dibromo-3-chloropropane	20.3	2.0	ug/L	20.00		101	70-130	4	20	
1,2-Dibromoethane	20.5	0.50	ug/L	20.00		103	70-130	0.3	20	
1,2-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	70-130	0.1	20	
1,2-Dichloroethane	19.6	0.50	ug/L	20.00		98	70-130	0.7	20	
1,2-Dichloropropane	19.7	0.50	ug/L	20.00		98	70-130	0.2	20	
1,3,5-Trimethylbenzene	22.3	0.50	ug/L	20.00		112	70-130	1	20	
1,3-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	70-130	1	20	
1,3-Dichloropropane	19.4	0.50	ug/L	20.00		97	70-130	2	20	
1,4-Dichlorobenzene	20.5	0.50	ug/L	20.00		102	70-130	4	20	
2,2-Dichloropropane	21.6	2.0	ug/L	20.00		108	70-130	1	20	
2-Chlorotoluene	20.9	0.50	ug/L	20.00		104	70-130	0.1	20	
4-Chlorotoluene	20.8	0.50	ug/L	20.00		104	70-130	1	20	
4-Isopropyltoluene	22.6	0.50	ug/L	20.00		113	70-130	0.1	20	
Acetone	39.9	10	ug/L	40.00		100	40-160	0.6	20	
Benzene	21.2	0.50	ug/L	20.00		106	70-130	0.8	20	
Bromobenzene	20.2	0.50	ug/L	20.00		101	70-130	2	20	
Bromochloromethane	21.6	0.50	ug/L	20.00		108	70-130	1	20	
Bromodichloromethane	18.5	0.50	ug/L	20.00		92	70-130	1	20	
Bromoform	18.7	0.50	ug/L	20.00		93	70-130	6	20	
Bromomethane	17.6	1.0	ug/L	20.00		88	60-140	3	20	
Carbon Tetrachloride	20.9	0.50	ug/L	20.00		104	70-130	1	20	
Chlorobenzene	20.9	0.50	ug/L	20.00		104	70-130	4	20	
Chloroethane	20.9	0.50	ug/L	20.00		104	60-140	3	20	
Chloroform	17.7	0.50	ug/L	20.00		88	70-130	6	20	
Chloromethane	20.5	0.50	ug/L	20.00		102	60-140	2	20	
cis-1,2-Dichloroethylene	20.7	0.50	ug/L	20.00		104	70-130	4	20	
cis-1,3-Dichloropropylene	20.8	0.50	ug/L	20.00		104	70-130	1	20	
Dibromochloromethane	18.9	0.50	ug/L	20.00		94	70-130	3	20	
Dibromomethane	18.0	0.50	ug/L	20.00		90	70-130	0.1	20	
Dichlorodifluoromethane	23.0	1.0	ug/L	20.00		115	60-140	2	20	
Ethanol	640	200	ug/L	500.0		128	60-140	64	20	D
Ethylbenzene	20.9	0.50	ug/L	20.00		104	70-130	2	20	
Hexachlorobutadiene	22.4	2.0	ug/L	20.00		112	70-130	0.5	20	
Isopropyl Ether	17.6	0.50	ug/L	20.00		88	70-130	1	20	
Isopropylbenzene (Cumene)	23.5	0.50	ug/L	20.00		117	70-130	2	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0451 - SM6200 B										
LCS Dup (P5B0451-BSD1)				Prepared & Analyzed: 02/23/15						
m,p-Xylenes	44.0	1.0	ug/L	40.00		110	70-130	4	20	
Methyl Butyl Ketone (2-Hexanone)	20.2	1.0	ug/L	20.00		101	60-140	4	20	
Methyl Ethyl Ketone (2-Butanone)	20.8	5.0	ug/L	20.00		104	60-140	2	20	
Methyl Isobutyl Ketone	19.0	1.0	ug/L	20.00		95	60-140	3	20	
Methylene Chloride	20.5	2.0	ug/L	20.00		103	70-130	0.6	20	
Methyl-tert-Butyl Ether	19.4	1.0	ug/L	20.00		97	70-130	1	20	
Naphthalene	21.1	1.0	ug/L	20.00		106	70-130	4	20	
n-Butylbenzene	23.0	0.50	ug/L	20.00		115	70-130	3	20	
n-Propylbenzene	22.6	0.50	ug/L	20.00		113	70-130	2	20	
o-Xylene	21.7	0.50	ug/L	20.00		108	70-130	3	20	
sec-Butylbenzene	21.4	0.50	ug/L	20.00		107	70-130	1	20	
Styrene	21.4	0.50	ug/L	20.00		107	70-130	0.5	20	
tert-Amyl Alcohol	24.3	10	ug/L	20.00		122	70-130	3	20	
tert-Amyl Methyl Ether	40.6	10	ug/L	40.00		101	70-130	1	20	
tert-Butyl Alcohol	28.8	10	ug/L	40.00		72	70-130	12	20	
tert-Butylbenzene	22.2	0.50	ug/L	20.00		111	70-130	0.09	20	
tert-Butyl Ethyl Ether	41.0	10	ug/L	40.00		102	70-130	2	20	
tert-Butyl Formate	41.9	10	ug/L	40.00		105	70-130	1	20	
Tetrachloroethylene	19.8	0.50	ug/L	20.00		99	70-130	1	20	
Toluene	20.6	0.50	ug/L	20.00		103	70-130	1	20	
trans-1,2-Dichloroethylene	21.8	0.50	ug/L	20.00		109	70-130	1	20	
trans-1,3-Dichloropropylene	20.2	0.50	ug/L	20.00		101	70-130	4	20	
Trichloroethylene	21.6	0.50	ug/L	20.00		108	70-130	0.5	20	
Trichlorofluoromethane	23.8	0.50	ug/L	20.00		119	60-140	1	20	
Vinyl acetate	21.1	5.0	ug/L	20.00		106	60-140	1	20	
Vinyl chloride	23.4	0.50	ug/L	20.00		117	60-140	5	20	
Xylenes, total	65.7	1.5	ug/L	60.00		110	70-130	3	20	
Surrogate: 4-Bromofluorobenzene	*26.1*		*ug/L*	*25.00*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*25.2*		*ug/L*	*25.00*		*101*	*70-130*			
Surrogate: Toluene-d8	*25.1*		*ug/L*	*25.00*		*101*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0452 - 625										
Blank (P5B0452-BLK1)				Prepared: 02/24/15 Analyzed: 02/25/15						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitrophenol	BRL	50	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Benzidine	BRL	100	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0452 - 625										
Blank (P5B0452-BLK1)				Prepared: 02/24/15 Analyzed: 02/25/15						
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitrosodimethylamine	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Surrogate: 2,4,6-Tribromophenol	*84.2*		*ug/L*	*100.0*		*84*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*45.7*		*ug/L*	*50.00*		*91*	*49-118*			
Surrogate: 2-Fluorophenol	*56.7*		*ug/L*	*100.0*		*57*	*22-84*			
Surrogate: Nitrobenzene-d5	*51.2*		*ug/L*	*50.00*		*102*	*43-123*			
Surrogate: Phenol-d5	*34.6*		*ug/L*	*100.0*		*35*	*10-63*			
Surrogate: Terphenyl-d14	*51.4*		*ug/L*	*50.00*		*103*	*49-151*			
LCS (P5B0452-BS1)				Prepared: 02/24/15 Analyzed: 02/25/15						
1,2,4-Trichlorobenzene	76.0	10	ug/L	100.0		76	44-142			
1,2-Dichlorobenzene	77.7	10	ug/L	100.0		78	32-129			
1,3-Dichlorobenzene	76.9	10	ug/L	100.0		77	20-124			
1,4-Dichlorobenzene	76.8	10	ug/L	100.0		77	20-124			
1-Methylnaphthalene	74.6	10	ug/L	100.0		75	40-135			
2,4,6-Trichlorophenol	77.0	10	ug/L	100.0		77	37-144			
2,4-Dichlorophenol	68.5	10	ug/L	100.0		68	39-135			
2,4-Dimethylphenol	66.1	10	ug/L	100.0		66	32-119			
2,4-Dinitrophenol	84.0	10	ug/L	100.0		84	10-191			
2,4-Dinitrotoluene	99.4	10	ug/L	100.0		99	39-139			
2,6-Dinitrotoluene	100	10	ug/L	100.0		100	50-158			
2-Chloronaphthalene	106	10	ug/L	100.0		106	60-118			
2-Chlorophenol	67.5	10	ug/L	100.0		68	23-134			
2-Methylnaphthalene	77.2	10	ug/L	100.0		77	18-121			
2-Nitrophenol	72.0	10	ug/L	100.0		72	29-182			
3,3'-Dichlorobenzidine	81.4	10	ug/L	100.0		81	10-262			
3/4-Methylphenol	61.5	10	ug/L	100.0		62	76-107			L
4,6-Dinitro-2-methylphenol	102	10	ug/L	100.0		102	10-181			
4-Bromophenyl phenyl ether	88.8	10	ug/L	100.0		89	53-127			
4-Chloro-3-methylphenol	70.8	10	ug/L	100.0		71	22-147			
4-Chloroaniline	75.4	10	ug/L	100.0		75	44-163			
4-Chlorophenyl phenyl ether	87.8	10	ug/L	100.0		88	25-158			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0452 - 625										
LCS (P5B0452-BS1)				Prepared: 02/24/15 Analyzed: 02/25/15						
4-Nitrophenol	41.0	50	ug/L	100.0		41	10-132			J
Acenaphthene	84.4	10	ug/L	100.0		84	47-145			
Acenaphthylene	84.2	10	ug/L	100.0		84	33-145			
Anthracene	91.2	10	ug/L	100.0		91	27-133			
Benzidine	46.4	100	ug/L	100.0		46	15-150			J
Benzo(a)anthracene	84.8	10	ug/L	100.0		85	33-143			
Benzo(a)pyrene	65.7	10	ug/L	100.0		66	17-163			
Benzo(b)fluoranthene	62.9	10	ug/L	100.0		63	24-159			
Benzo(g,h,i)perylene	66.8	10	ug/L	100.0		67	10-219			
Benzo(k)fluoranthene	67.3	10	ug/L	100.0		67	11-162			
Benzoic Acid	27.0	100	ug/L	100.0		27	10-125			J
Benzyl alcohol	60.7	10	ug/L	100.0		61	16-107			
bis(2-Chloroethoxy)methane	76.2	10	ug/L	100.0		76	33-184			
Bis(2-Chloroethyl)ether	66.2	10	ug/L	100.0		66	12-158			
Bis(2-chloroisopropyl)ether	77.1	10	ug/L	100.0		77	36-166			
Bis(2-Ethylhexyl)phthalate	81.9	10	ug/L	100.0		82	10-158			
Butyl benzyl phthalate	81.8	10	ug/L	100.0		82	10-152			
Chrysene	90.0	10	ug/L	100.0		90	17-168			
Dibenzo(a,h)anthracene	67.9	10	ug/L	100.0		68	10-227			
Dibenzofuran	77.1	10	ug/L	100.0		77	39-114			
Diethyl phthalate	83.7	10	ug/L	100.0		84	10-114			
Dimethyl phthalate	74.5	10	ug/L	100.0		74	10-112			
Di-n-butyl phthalate	87.1	10	ug/L	100.0		87	10-118			
Di-n-octyl phthalate	61.7	10	ug/L	100.0		62	10-146			
Fluoranthene	90.6	10	ug/L	100.0		91	26-137			
Fluorene	87.0	10	ug/L	100.0		87	59-121			
Hexachlorobenzene	95.2	10	ug/L	100.0		95	10-152			
Hexachlorobutadiene	76.9	10	ug/L	100.0		77	24-116			
Hexachlorocyclopentadiene	82.9	10	ug/L	100.0		83	32-117			
Hexachloroethane	75.4	10	ug/L	100.0		75	40-113			
Indeno(1,2,3-cd)pyrene	68.7	10	ug/L	100.0		69	10-171			
Isophorone	80.3	10	ug/L	100.0		80	21-196			
Naphthalene	75.1	10	ug/L	100.0		75	21-133			
Nitrobenzene	77.0	10	ug/L	100.0		77	35-180			
N-Nitrosodimethylamine	52.5	10	ug/L	100.0		52	10-119			
N-Nitroso-di-n-propylamine	79.0	10	ug/L	100.0		79	10-230			
N-Nitrosodiphenylamine	89.0	10	ug/L	100.0		89	69-152			
Pentachlorophenol	99.0	10	ug/L	100.0		99	14-176			
Phenanthrene	87.7	10	ug/L	100.0		88	54-120			
Phenol	34.2	10	ug/L	100.0		34	10-112			
Pyrene	84.6	10	ug/L	100.0		85	52-115			
Surrogate: 2,4,6-Tribromophenol	*95.7*		*ug/L*	*100.0*		*96*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*47.7*		*ug/L*	*50.00*		*95*	*49-118*			
Surrogate: 2-Fluorophenol	*57.2*		*ug/L*	*100.0*		*57*	*22-84*			
Surrogate: Nitrobenzene-d5	*50.3*		*ug/L*	*50.00*		*101*	*43-123*			
Surrogate: Phenol-d5	*35.2*		*ug/L*	*100.0*		*35*	*10-63*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0452 - 625										
LCS (P5B0452-BS1)				Prepared: 02/24/15 Analyzed: 02/25/15						
Surrogate: Terphenyl-d14	*52.4*		*ug/L*	*50.00*		*105*	*49-151*			
LCS Dup (P5B0452-BSD1)				Prepared: 02/24/15 Analyzed: 02/25/15						
1,2,4-Trichlorobenzene	79.2	10	ug/L	100.0		79	44-142	4	20	
1,2-Dichlorobenzene	82.3	10	ug/L	100.0		82	32-129	6	20	
1,3-Dichlorobenzene	80.9	10	ug/L	100.0		81	20-124	5	20	
1,4-Dichlorobenzene	80.2	10	ug/L	100.0		80	20-124	4	20	
1-Methylnaphthalene	78.2	10	ug/L	100.0		78	40-135	5	20	
2,4,6-Trichlorophenol	86.2	10	ug/L	100.0		86	37-144	11	20	
2,4-Dichlorophenol	71.6	10	ug/L	100.0		72	39-135	5	20	
2,4-Dimethylphenol	71.3	10	ug/L	100.0		71	32-119	8	20	
2,4-Dinitrophenol	85.7	10	ug/L	100.0		86	10-191	2	20	
2,4-Dinitrotoluene	113	10	ug/L	100.0		113	39-139	13	20	
2,6-Dinitrotoluene	112	10	ug/L	100.0		112	50-158	11	20	
2-Chloronaphthalene	117	10	ug/L	100.0		117	60-118	9	20	
2-Chlorophenol	73.2	10	ug/L	100.0		73	23-134	8	20	
2-Methylnaphthalene	80.8	10	ug/L	100.0		81	18-121	5	20	
2-Nitrophenol	75.0	10	ug/L	100.0		75	29-182	4	20	
3,3'-Dichlorobenzidine	96.2	10	ug/L	100.0		96	10-262	17	20	
3/4-Methylphenol	67.4	10	ug/L	100.0		67	76-107	9	20	L
4,6-Dinitro-2-methylphenol	115	10	ug/L	100.0		115	10-181	12	20	
4-Bromophenyl phenyl ether	101	10	ug/L	100.0		101	53-127	12	20	
4-Chloro-3-methylphenol	80.2	10	ug/L	100.0		80	22-147	12	20	
4-Chloroaniline	80.2	10	ug/L	100.0		80	44-163	6	20	
4-Chlorophenyl phenyl ether	97.1	10	ug/L	100.0		97	25-158	10	20	
4-Nitrophenol	47.2	50	ug/L	100.0		47	10-132	14	20	J
Acenaphthene	92.5	10	ug/L	100.0		93	47-145	9	20	
Acenaphthylene	92.4	10	ug/L	100.0		92	33-145	9	20	
Anthracene	103	10	ug/L	100.0		103	27-133	12	20	
Benzidine	60.0	100	ug/L	100.0		60	15-150	25	20	D, J
Benzo(a)anthracene	98.1	10	ug/L	100.0		98	33-143	14	20	
Benzo(a)pyrene	77.0	10	ug/L	100.0		77	17-163	16	20	
Benzo(b)fluoranthene	73.4	10	ug/L	100.0		73	24-159	15	20	
Benzo(g,h,i)perylene	79.5	10	ug/L	100.0		80	10-219	17	20	
Benzo(k)fluoranthene	78.9	10	ug/L	100.0		79	11-162	16	20	
Benzoic Acid	20.5	100	ug/L	100.0		20	10-125	28	20	D, J
Benzyl alcohol	67.9	10	ug/L	100.0		68	16-107	11	20	
bis(2-Chloroethoxy)methane	79.0	10	ug/L	100.0		79	33-184	4	20	
Bis(2-Chloroethyl)ether	70.5	10	ug/L	100.0		71	12-158	6	20	
Bis(2-chloroisopropyl)ether	84.1	10	ug/L	100.0		84	36-166	9	20	
Bis(2-Ethylhexyl)phthalate	95.2	10	ug/L	100.0		95	10-158	15	20	
Butyl benzyl phthalate	95.0	10	ug/L	100.0		95	10-152	15	20	
Chrysene	105	10	ug/L	100.0		105	17-168	15	20	
Dibenzo(a,h)anthracene	80.7	10	ug/L	100.0		81	10-227	17	20	
Dibenzofuran	85.2	10	ug/L	100.0		85	39-114	10	20	
Diethyl phthalate	95.7	10	ug/L	100.0		96	10-114	13	20	
Dimethyl phthalate	86.2	10	ug/L	100.0		86	10-112	15	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0452 - 625										
LCS Dup (P5B0452-BSD1)				Prepared: 02/24/15 Analyzed: 02/25/15						
Di-n-butyl phthalate	101	10	ug/L	100.0		101	10-118	15	20	
Di-n-octyl phthalate	73.0	10	ug/L	100.0		73	10-146	17	20	
Fluoranthene	103	10	ug/L	100.0		103	26-137	13	20	
Fluorene	97.5	10	ug/L	100.0		97	59-121	11	20	
Hexachlorobenzene	111	10	ug/L	100.0		111	10-152	16	20	
Hexachlorobutadiene	78.3	10	ug/L	100.0		78	24-116	2	20	
Hexachlorocyclopentadiene	87.1	10	ug/L	100.0		87	32-117	5	20	
Hexachloroethane	80.3	10	ug/L	100.0		80	40-113	6	20	
Indeno(1,2,3-cd)pyrene	80.8	10	ug/L	100.0		81	10-171	16	20	
Isophorone	85.6	10	ug/L	100.0		86	21-196	6	20	
Naphthalene	78.6	10	ug/L	100.0		79	21-133	4	20	
Nitrobenzene	80.4	10	ug/L	100.0		80	35-180	4	20	
N-Nitrosodimethylamine	57.4	10	ug/L	100.0		57	10-119	9	20	
N-Nitroso-di-n-propylamine	86.1	10	ug/L	100.0		86	10-230	9	20	
N-Nitrosodiphenylamine	103	10	ug/L	100.0		103	69-152	15	20	
Pentachlorophenol	112	10	ug/L	100.0		112	14-176	13	20	
Phenanthrene	101	10	ug/L	100.0		101	54-120	15	20	
Phenol	37.7	10	ug/L	100.0		38	10-112	10	20	
Pyrene	97.3	10	ug/L	100.0		97	52-115	14	20	
Surrogate: 2,4,6-Tribromophenol	*98.4*		*ug/L*	*100.0*		*98*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*46.7*		*ug/L*	*50.00*		*93*	*49-118*			
Surrogate: 2-Fluorophenol	*55.9*		*ug/L*	*100.0*		*56*	*22-84*			
Surrogate: Nitrobenzene-d5	*42.1*		*ug/L*	*50.00*		*84*	*43-123*			
Surrogate: Phenol-d5	*35.8*		*ug/L*	*100.0*		*36*	*10-63*			
Surrogate: Terphenyl-d14	*55.0*		*ug/L*	*50.00*		*110*	*49-151*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0473 - MADEP VPH (W)										
Blank (P5B0473-BLK1)				Prepared & Analyzed: 02/25/15						
C5-C8 Aliphatics	BRL	50	ug/L							
C9-C12 Aliphatics	BRL	50	ug/L							
C9-C10 Aromatics	BRL	50	ug/L							
Surrogate: 2,5-Dibromotoluene (PID)	*93.3*		*ug/L*	*100.0*		*93*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*95.1*		*ug/L*	*100.0*		*95*	*70-130*			
LCS (P5B0473-BS1)				Prepared & Analyzed: 02/25/15						
C5-C8 Aliphatics	325	50	ug/L	300.0		108	70-130			
C9-C10 Aromatics	103	50	ug/L	100.0		103	70-130			
C9-C12 Aliphatic	348	50	ug/L	300.0		116	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*103*		*ug/L*	*100.0*		*103*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*103*		*ug/L*	*100.0*		*103*	*70-130*			
LCS Dup (P5B0473-BSD1)				Prepared & Analyzed: 02/25/15						
C5-C8 Aliphatics	317	50	ug/L	300.0		106	70-130	2	50	
C9-C10 Aromatics	100	50	ug/L	100.0		100	70-130	3	50	
C9-C12 Aliphatic	346	50	ug/L	300.0		115	70-130	0.5	50	
Surrogate: 2,5-Dibromotoluene (PID)	*97.9*		*ug/L*	*100.0*		*98*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*98.7*		*ug/L*	*100.0*		*99*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0466 - MADEP EPH (W)										
Blank (P5B0466-BLK1)				Prepared: 02/25/15 Analyzed: 02/26/15						
C9-C18 Aliphatics	BRL	100	ug/L							
C19-C36 Aliphatics	BRL	100	ug/L							
C11-C22 Aromatics	BRL	100	ug/L							
Surrogate: 1-Chlorooctadecane	*15.7*		*ug/L*	*20.00*		*78*	*40-140*			
Surrogate: o-Terphenyl	*15.4*		*ug/L*	*20.00*		*77*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*32.0*		*ug/L*	*40.00*		*80*	*40-140*			
Surrogate: 2-Bromonaphthalene	*28.8*		*ug/L*	*40.00*		*72*	*40-140*			
LCS (P5B0466-BS1)				Prepared: 02/25/15 Analyzed: 02/26/15						
C9-C18 Aliphatics	420	100	ug/L	600.0		70	40-140			
C19-C36 Aliphatics	744	100	ug/L	800.0		93	40-140			
C11-C22 Aromatics	1480	100	ug/L	1700		87	40-140			
Surrogate: 1-Chlorooctadecane	*20.8*		*ug/L*	*20.00*		*104*	*40-140*			
Surrogate: o-Terphenyl	*19.3*		*ug/L*	*20.00*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*36.6*		*ug/L*	*40.00*		*91*	*40-140*			
Surrogate: 2-Bromonaphthalene	*26.1*		*ug/L*	*40.00*		*65*	*40-140*			
LCS Dup (P5B0466-BSD1)				Prepared: 02/25/15 Analyzed: 02/26/15						
C9-C18 Aliphatics	374	100	ug/L	600.0		62	40-140	12	50	
C19-C36 Aliphatics	734	100	ug/L	800.0		92	40-140	1	50	
C11-C22 Aromatics	1470	100	ug/L	1700		86	40-140	1	50	
Surrogate: 1-Chlorooctadecane	*17.4*		*ug/L*	*20.00*		*87*	*40-140*			
Surrogate: o-Terphenyl	*18.6*		*ug/L*	*20.00*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*41.2*		*ug/L*	*40.00*		*103*	*40-140*			
Surrogate: 2-Bromonaphthalene	*42.0*		*ug/L*	*40.00*		*105*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020408
Time Submitted: 2/20/2015 5:00:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0457 - 3010A										
Blank (P5B0457-BLK1)				Prepared & Analyzed: 02/25/15						
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
LCS (P5B0457-BS1)				Prepared & Analyzed: 02/25/15						
Chromium	0.261	0.0050	mg/L	0.2500		104	80-120			
Lead	0.261	0.0050	mg/L	0.2500		104	80-120			
Matrix Spike (P5B0457-MS1)		**Source: 5020408-01**		Prepared & Analyzed: 02/25/15						
Chromium	0.278	0.0050	mg/L	0.2500	0.0129	106	75-125			
Lead	0.264	0.0050	mg/L	0.2500	0.00394	104	75-125			
Matrix Spike Dup (P5B0457-MSD1)		**Source: 5020408-01**		Prepared & Analyzed: 02/25/15						
Chromium	0.279	0.0050	mg/L	0.2500	0.0129	107	75-125	0.5	20	
Lead	0.266	0.0050	mg/L	0.2500	0.00394	105	75-125	0.5	20	

Sample Extraction Data

Prep Method: MADEP EPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5020408-01	P5B0466	1000 mL	2 mL	02/25/15 12:05
5020408-02	P5B0466	1000 mL	2 mL	02/25/15 12:05

Prep Method: 625

Lab Number	Batch	Initial	Final	Date/Time
5020408-01	P5B0452	1000 mL	1 mL	02/24/15 13:55
5020408-02	P5B0452	1000 mL	1 mL	02/24/15 13:55

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
5020408-01	P5B0457	50 mL	50 mL	02/25/15 8:00
5020408-02	P5B0457	50 mL	50 mL	02/25/15 8:00

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
5020408-01	P5B0451	10 mL	10 mL	02/23/15 14:05
5020408-02	P5B0451	10 mL	10 mL	02/23/15 14:05
5020408-03	P5B0451	10 mL	10 mL	02/23/15 14:05
5020408-03	P5B0451	10 mL	10 mL	02/23/15 14:05
5020408-04	P5B0451	10 mL	10 mL	02/23/15 14:05

Prep Method: MADEP VPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5020408-01	P5B0473	44 mL	44 mL	02/25/15 12:37
5020408-02	P5B0473	44 mL	44 mL	02/25/15 12:37
5020408-03	P5B0473	44 mL	44 mL	02/25/15 12:37

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: AECOM
Report To/Contact Name: James McDorman
Reporting Address: 6000 Fairview Rd Suite 200
Charlotte, NC 28210
Phone: 704 7160734 Fax (Yes) (No): _____
Email Address: James.mcDorman@AECOM.com
EDD Type: PDF____ Excel____ Other_____
Site Location Name: Airport Rental Budget
Site Location Physical Address: Rental Car Fac Charlotte

Project Name: Airport Rental Car Facility
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Michelle Friedman ~~Shaw AECOM~~
Address: 5925 Carnegie Blv, Suite 370
Charlotte, NC 28209
Purchase Order No./Billing Reference 60340939

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			—
VOLATILES rec'd W/OUT HEADSPACE?	—		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: Det-03 Observed: 6.8 °C / Corr: 5.4 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X
SC____ OTHER_____ N/A_____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSIS REQUESTED: GRO/BTEX VOCs	MADEP VPH	MADEP EPH	SVOCs 10 TICs 625	Pb	Pb/Cr	REMARKS	PRISM LAB ID NO.
Budget TMW-1	2/20/15	~~0930~~ 1145	Water	VOA/P/G	6/1/2	—	HCl/HNO3/HCl ump	X	X	X	X		X		01
Budget TMW-2		~~1145~~ 930		VOA/P/G	6/1/4	—	HCl/HNO3/HCl ump	X	X	X	X		X		02
Budget TMW-5		1400		VOA 3ms	6 3ms	—	HCl/ump	X	X						03
DUPLICATE-1		800						X							04
*Add Dup. + Charge Times to match containers per Matt Stone								2/23/15 mag	Parsy						

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature _____ Sampled By (Print Name) Matthew Stone Affiliation AECOM

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 2/20/15	1700

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☒ Hand-delivered ☐ Prism Field Service ☐ Other_____
COC Group No. 5020408

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

04/15/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/24/2015
Prism Work Order: 5020424

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

This is a Second Revised Report and supercedes the first revised laboratory report dated 3/18/15. Client add Chromium to Sample ID Hertz-TMW-1.

This is a Revised Report and supercedes the original laboratory report dated 3/6/15. Method 602 analyte list has been revised to match NCDENR UST Section Target Analyte List.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones
President/Project Manager

Reviewed By Robbi A. Jones
President/Project Manager

Data Qualifiers Key Reference:

A	Low CCV recovery.
D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L	Parameter reported with possible low bias. LCS recovery below the QC limit.
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
M	Matrix spike outside of the control limits.
SE	Surrogate recovery outside the QC limits due to emulsion.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Receipt Summary

04/15/2015

Prism Work Order: 5020424

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Payless TMW-1	5020424-01	Water	02/23/15	02/24/15
Payless TMW-2	5020424-02	Water	02/23/15	02/24/15
Payless TMW-3	5020424-03	Water	02/23/15	02/24/15
Payless MW-1	5020424-04	Water	02/23/15	02/24/15
Payless TMW-4	5020424-05	Water	02/23/15	02/24/15
Dup-2	5020424-06	Water	02/23/15	02/24/15
Hertz TMW-1	5020424-07	Water	02/24/15	02/24/15
Trip Blank 1	5020424-08	Water	02/23/15	02/24/15
Trip Blank 2	5020424-09	Water	02/24/15	02/24/15

Samples were received in good condition at 2.0 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

04/15/2015

Prism Work Order: 5020424

Prism ID	Client ID	Parameter	Method	Result		Units
5020424-01	Payless TMW-1	C19-C36 Aliphatics	MADEP EPH	18	J	ug/L
5020424-02	Payless TMW-2	Cyclopentanol, 1-methyl-	625	38		ug/L
5020424-02	Payless TMW-2	Unknown (1)	625	18		ug/L
5020424-02	Payless TMW-2	Unknown (2)	625	26		ug/L
5020424-02	Payless TMW-2	Unknown (3)	625	16		ug/L
5020424-02	Payless TMW-2	Isopropyl Ether	SM6200 B	2.1		ug/L
5020424-02	Payless TMW-2	Methyl-tert-Butyl Ether	SM6200 B	3.6		ug/L
5020424-02	Payless TMW-2	tert-Amyl Alcohol	SM6200 B	310	A	ug/L
5020424-02	Payless TMW-2	tert-Butyl Alcohol	SM6200 B	95	A	ug/L
5020424-02	Payless TMW-2	C5-C8 Aliphatics	MADEP VPH	43	J	ug/L
5020424-02	Payless TMW-2	C9-C12 Aliphatics	MADEP VPH	13	J	ug/L
5020424-02	Payless TMW-2	C9-C10 Aromatics	MADEP VPH	2.0	J	ug/L
5020424-03	Payless TMW-3	Unknown (1)	625	27		ug/L
5020424-03	Payless TMW-3	Lead	*6010C	0.012		mg/L
5020424-03	Payless TMW-3	1,2,4-Trimethylbenzene	SM6200 B	0.73		ug/L
5020424-03	Payless TMW-3	Methyl-tert-Butyl Ether	SM6200 B	1.8		ug/L
5020424-03	Payless TMW-3	tert-Amyl Alcohol	SM6200 B	57	A	ug/L
5020424-03	Payless TMW-3	tert-Butyl Alcohol	SM6200 B	21	A	ug/L
5020424-03	Payless TMW-3	C5-C8 Aliphatics	MADEP VPH	3.5	J	ug/L
5020424-03	Payless TMW-3	C9-C12 Aliphatics	MADEP VPH	11	J	ug/L
5020424-03	Payless TMW-3	C9-C10 Aromatics	MADEP VPH	3.2	J	ug/L
5020424-05	Payless TMW-4	Methyl-tert-Butyl Ether	SM6200 B	2.3		ug/L
5020424-06	Dup-2	Methyl-tert-Butyl Ether	SM6200 B	0.89	J	ug/L
5020424-07	Hertz TMW-1	C11-C22 Aromatics	MADEP EPH	53	J	ug/L
5020424-07	Hertz TMW-1	Naphthalene	625	19		ug/L
5020424-07	Hertz TMW-1	2,4,6-Trimethyliodobenzene	625	17		ug/L
5020424-07	Hertz TMW-1	p-Xylene	625	23		ug/L
5020424-07	Hertz TMW-1	Unknown (1)	625	18		ug/L
5020424-07	Hertz TMW-1	Unknown (2)	625	21		ug/L
5020424-07	Hertz TMW-1	Unknown (3)	625	140		ug/L
5020424-07	Hertz TMW-1	Chromium	*6010C	0.012		mg/L
5020424-07	Hertz TMW-1	1,2,4-Trimethylbenzene	SM6200 B	1.7		ug/L
5020424-07	Hertz TMW-1	4-Isopropyltoluene	SM6200 B	0.80		ug/L
5020424-07	Hertz TMW-1	Benzene	SM6200 B	78		ug/L
5020424-07	Hertz TMW-1	Isopropylbenzene (Cumene)	SM6200 B	4.6		ug/L
5020424-07	Hertz TMW-1	m,p-Xylenes	SM6200 B	14		ug/L
5020424-07	Hertz TMW-1	Methyl-tert-Butyl Ether	SM6200 B	0.53	J	ug/L
5020424-07	Hertz TMW-1	Naphthalene	SM6200 B	30		ug/L
5020424-07	Hertz TMW-1	n-Butylbenzene	SM6200 B	1.1		ug/L
5020424-07	Hertz TMW-1	n-Propylbenzene	SM6200 B	2.3		ug/L
5020424-07	Hertz TMW-1	o-Xylene	SM6200 B	38		ug/L
5020424-07	Hertz TMW-1	sec-Butylbenzene	SM6200 B	0.53		ug/L
5020424-07	Hertz TMW-1	tert-Amyl Alcohol	SM6200 B	120	A	ug/L
5020424-07	Hertz TMW-1	tert-Butyl Alcohol	SM6200 B	6.2	A, J	ug/L

Summary of Detections

04/15/2015

Prism Work Order: 5020424

Prism ID	Client ID	Parameter	Method	Result		Units
5020424-07	Hertz TMW-1	Toluene	SM6200 B	0.71		ug/L
5020424-07	Hertz TMW-1	Trichloroethylene	SM6200 B	0.55		ug/L
5020424-07	Hertz TMW-1	Xylenes, total	SM6200 B	52		ug/L
5020424-07	Hertz TMW-1	C5-C8 Aliphatics	MADEP VPH	410		ug/L
5020424-07	Hertz TMW-1	C9-C12 Aliphatics	MADEP VPH	140		ug/L
5020424-07	Hertz TMW-1	C9-C10 Aromatics	MADEP VPH	38	J	ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-1
Prism Sample ID: 5020424-01
Prism Work Order: 5020424
Time Collected: 02/23/15 10:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/5/15 13:16	KC	P5B0466
C19-C36 Aliphatics	**18 J**	**ug/L**	**100**	**11**	**1**	**MADEP EPH**	**3/5/15 13:16**	**KC**	**P5B0466**
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/5/15 13:16	KC	P5B0466

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*94 %*	*40-140*
o-Terphenyl	*92 %*	*40-140*
2-Fluorobiphenyl	*96 %*	*40-140*
2-Bromonaphthalene	*78 %*	*40-140*

Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 18:55	KC	P5C0008
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 18:55	KC	P5C0008
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 18:55	KC	P5C0008
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 18:55	KC	P5C0008
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/4/15 18:55	KC	P5C0008
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 18:55	KC	P5C0008
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 18:55	KC	P5C0008
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/4/15 18:55	KC	P5C0008
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/4/15 18:55	KC	P5C0008
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	3/4/15 18:55	KC	P5C0008
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/4/15 18:55	KC	P5C0008
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/4/15 18:55	KC	P5C0008
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 18:55	KC	P5C0008
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 18:55	KC	P5C0008
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/4/15 18:55	KC	P5C0008
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/4/15 18:55	KC	P5C0008
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/4/15 18:55	KC	P5C0008
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/4/15 18:55	KC	P5C0008
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
Anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
Benzidine	BRL	ug/L	100	2.9	1	625	3/4/15 18:55	KC	P5C0008
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/4/15 18:55	KC	P5C0008
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/4/15 18:55	KC	P5C0008
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/4/15 18:55	KC	P5C0008
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/4/15 18:55	KC	P5C0008
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/4/15 18:55	KC	P5C0008

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-1
Prism Sample ID: 5020424-01
Prism Work Order: 5020424
Time Collected: 02/23/15 10:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/4/15 18:55	KC	P5C0008
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/4/15 18:55	KC	P5C0008
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/4/15 18:55	KC	P5C0008
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/4/15 18:55	KC	P5C0008
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 18:55	KC	P5C0008
Chrysene	BRL	ug/L	10	1.4	1	625	3/4/15 18:55	KC	P5C0008
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	3/4/15 18:55	KC	P5C0008
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 18:55	KC	P5C0008
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/4/15 18:55	KC	P5C0008
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/4/15 18:55	KC	P5C0008
Fluorene	BRL	ug/L	10	1.5	1	625	3/4/15 18:55	KC	P5C0008
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/4/15 18:55	KC	P5C0008
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/4/15 18:55	KC	P5C0008
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/4/15 18:55	KC	P5C0008
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/4/15 18:55	KC	P5C0008
Isophorone	BRL	ug/L	10	1.5	1	625	3/4/15 18:55	KC	P5C0008
Naphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 18:55	KC	P5C0008
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/4/15 18:55	KC	P5C0008
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/4/15 18:55	KC	P5C0008
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/4/15 18:55	KC	P5C0008
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/4/15 18:55	KC	P5C0008
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 18:55	KC	P5C0008
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/4/15 18:55	KC	P5C0008
Phenol	BRL	ug/L	10	0.90	1	625	3/4/15 18:55	KC	P5C0008
Pyrene	BRL	ug/L	10	1.5	1	625	3/4/15 18:55	KC	P5C0008
TIC: Tentatively Identified Compounds	Not Detected	ug/L			1	625	3/4/15 18:55	KC	P5C0008

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*54 %*	*31-144*
2-Fluorobiphenyl	*65 %*	*49-118*
2-Fluorophenol	*35 %*	*22-84*
Nitrobenzene-d5	*70 %*	*43-123*
Phenol-d5	*24 %*	*10-63*
Terphenyl-d14	*98 %*	*49-151*

Total Metals

Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	2/25/15 16:24	BGM	P5B0457

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 17:24	VHL	P5B0487

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-1
Prism Sample ID: 5020424-01
Prism Work Order: 5020424
Time Collected: 02/23/15 10:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/24/15 17:24	VHL	P5B0487

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-1
Prism Sample ID: 5020424-01
Prism Work Order: 5020424
Time Collected: 02/23/15 10:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
tert-Amyl Alcohol	BRL A	ug/L	10	0.72	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
tert-Butyl Alcohol	BRL A	ug/L	10	0.64	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/24/15 17:24	VHL	P5B0487
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/24/15 17:24	VHL	P5B0487

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*70-130*
Dibromofluoromethane	*107 %*	*70-130*
Toluene-d8	*101 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	2/25/15 19:08	ANG	P5B0473
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	2/25/15 19:08	ANG	P5B0473
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	2/25/15 19:08	ANG	P5B0473

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*93 %*	*70-130*
2,5-Dibromotoluene (FID)	*95 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-2
Prism Sample ID: 5020424-02
Prism Work Order: 5020424
Time Collected: 02/23/15 11:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/5/15 13:53	KC	P5B0466
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/5/15 13:53	KC	P5B0466
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/5/15 13:53	KC	P5B0466

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*80 %*	*40-140*
o-Terphenyl	*86 %*	*40-140*
2-Fluorobiphenyl	*91 %*	*40-140*
2-Bromonaphthalene	*81 %*	*40-140*

Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 19:16	KC	P5C0008
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 19:16	KC	P5C0008
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 19:16	KC	P5C0008
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 19:16	KC	P5C0008
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/4/15 19:16	KC	P5C0008
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 19:16	KC	P5C0008
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 19:16	KC	P5C0008
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/4/15 19:16	KC	P5C0008
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/4/15 19:16	KC	P5C0008
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	3/4/15 19:16	KC	P5C0008
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/4/15 19:16	KC	P5C0008
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/4/15 19:16	KC	P5C0008
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 19:16	KC	P5C0008
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 19:16	KC	P5C0008
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/4/15 19:16	KC	P5C0008
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/4/15 19:16	KC	P5C0008
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/4/15 19:16	KC	P5C0008
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/4/15 19:16	KC	P5C0008
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
Anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
Benzidine	BRL	ug/L	100	2.9	1	625	3/4/15 19:16	KC	P5C0008
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/4/15 19:16	KC	P5C0008
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/4/15 19:16	KC	P5C0008
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/4/15 19:16	KC	P5C0008
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/4/15 19:16	KC	P5C0008
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/4/15 19:16	KC	P5C0008

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-2
Prism Sample ID: 5020424-02
Prism Work Order: 5020424
Time Collected: 02/23/15 11:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/4/15 19:16	KC	P5C0008
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/4/15 19:16	KC	P5C0008
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/4/15 19:16	KC	P5C0008
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/4/15 19:16	KC	P5C0008
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 19:16	KC	P5C0008
Chrysene	BRL	ug/L	10	1.4	1	625	3/4/15 19:16	KC	P5C0008
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	3/4/15 19:16	KC	P5C0008
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 19:16	KC	P5C0008
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/4/15 19:16	KC	P5C0008
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/4/15 19:16	KC	P5C0008
Fluorene	BRL	ug/L	10	1.5	1	625	3/4/15 19:16	KC	P5C0008
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/4/15 19:16	KC	P5C0008
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/4/15 19:16	KC	P5C0008
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/4/15 19:16	KC	P5C0008
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/4/15 19:16	KC	P5C0008
Isophorone	BRL	ug/L	10	1.5	1	625	3/4/15 19:16	KC	P5C0008
Naphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 19:16	KC	P5C0008
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/4/15 19:16	KC	P5C0008
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/4/15 19:16	KC	P5C0008
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/4/15 19:16	KC	P5C0008
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/4/15 19:16	KC	P5C0008
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 19:16	KC	P5C0008
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/4/15 19:16	KC	P5C0008
Phenol	BRL	ug/L	10	0.90	1	625	3/4/15 19:16	KC	P5C0008
Pyrene	BRL	ug/L	10	1.5	1	625	3/4/15 19:16	KC	P5C0008
TIC: Cyclopentanol, 1-methyl-	**38**	**ug/L**			**1**	**625**	**3/4/15 19:16**	**KC**	**P5C0008**
TIC: Unknown (1)	**18**	**ug/L**			**1**	**625**	**3/4/15 19:16**	**KC**	**P5C0008**
TIC: Unknown (2)	**26**	**ug/L**			**1**	**625**	**3/4/15 19:16**	**KC**	**P5C0008**
TIC: Unknown (3)	**16**	**ug/L**			**1**	**625**	**3/4/15 19:16**	**KC**	**P5C0008**

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*67 %*	*31-144*
2-Fluorobiphenyl	*71 %*	*49-118*
2-Fluorophenol	*40 %*	*22-84*
Nitrobenzene-d5	*78 %*	*43-123*
Phenol-d5	*26 %*	*10-63*
Terphenyl-d14	*97 %*	*49-151*

Total Metals

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	2/25/15 16:32	BGM	P5B0457

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-2
Prism Sample ID: 5020424-02
Prism Work Order: 5020424
Time Collected: 02/23/15 11:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/24/15 17:58	VHL	P5B0487

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-2
Prism Sample ID: 5020424-02
Prism Work Order: 5020424
Time Collected: 02/23/15 11:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Isopropyl Ether	**2.1**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**2/24/15 17:58**	**VHL**	**P5B0487**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Methyl-tert-Butyl Ether	**3.6**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/24/15 17:58**	**VHL**	**P5B0487**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
tert-Amyl Alcohol	**310 A**	**ug/L**	**50**	**3.6**	**5**	**SM6200 B**	**3/2/15 15:17**	**VHL**	**P5B0487**
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
tert-Butyl Alcohol	**95 A**	**ug/L**	**10**	**0.64**	**1**	**SM6200 B**	**2/24/15 17:58**	**VHL**	**P5B0487**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/24/15 17:58	VHL	P5B0487
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/24/15 17:58	VHL	P5B0487

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*110 %*	*70-130*
Dibromofluoromethane	*105 %*	*70-130*
Toluene-d8	*101 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**43 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**2/26/15 0:01**	**ANG**	**P5B0473**
C9-C12 Aliphatics	**13 J**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**2/26/15 0:01**	**ANG**	**P5B0473**
C9-C10 Aromatics	**2.0 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**2/26/15 0:01**	**ANG**	**P5B0473**

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*103 %*	*70-130*
2,5-Dibromotoluene (FID)	*104 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-3
Prism Sample ID: 5020424-03
Prism Work Order: 5020424
Time Collected: 02/23/15 14:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/5/15 14:29	KC	P5B0466
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/5/15 14:29	KC	P5B0466
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/5/15 14:29	KC	P5B0466

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*72 %*	*40-140*
o-Terphenyl	*79 %*	*40-140*
2-Fluorobiphenyl	*85 %*	*40-140*
2-Bromonaphthalene	*75 %*	*40-140*

Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 19:37	KC	P5C0008
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 19:37	KC	P5C0008
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 19:37	KC	P5C0008
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 19:37	KC	P5C0008
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/4/15 19:37	KC	P5C0008
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 19:37	KC	P5C0008
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 19:37	KC	P5C0008
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/4/15 19:37	KC	P5C0008
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/4/15 19:37	KC	P5C0008
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	3/4/15 19:37	KC	P5C0008
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/4/15 19:37	KC	P5C0008
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/4/15 19:37	KC	P5C0008
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 19:37	KC	P5C0008
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 19:37	KC	P5C0008
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/4/15 19:37	KC	P5C0008
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/4/15 19:37	KC	P5C0008
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/4/15 19:37	KC	P5C0008
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/4/15 19:37	KC	P5C0008
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
Anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
Benzidine	BRL	ug/L	100	2.9	1	625	3/4/15 19:37	KC	P5C0008
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/4/15 19:37	KC	P5C0008
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/4/15 19:37	KC	P5C0008
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/4/15 19:37	KC	P5C0008
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/4/15 19:37	KC	P5C0008
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/4/15 19:37	KC	P5C0008

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-3
Prism Sample ID: 5020424-03
Prism Work Order: 5020424
Time Collected: 02/23/15 14:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/4/15 19:37	KC	P5C0008
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/4/15 19:37	KC	P5C0008
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/4/15 19:37	KC	P5C0008
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/4/15 19:37	KC	P5C0008
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 19:37	KC	P5C0008
Chrysene	BRL	ug/L	10	1.4	1	625	3/4/15 19:37	KC	P5C0008
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	3/4/15 19:37	KC	P5C0008
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 19:37	KC	P5C0008
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/4/15 19:37	KC	P5C0008
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/4/15 19:37	KC	P5C0008
Fluorene	BRL	ug/L	10	1.5	1	625	3/4/15 19:37	KC	P5C0008
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/4/15 19:37	KC	P5C0008
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/4/15 19:37	KC	P5C0008
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/4/15 19:37	KC	P5C0008
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/4/15 19:37	KC	P5C0008
Isophorone	BRL	ug/L	10	1.5	1	625	3/4/15 19:37	KC	P5C0008
Naphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 19:37	KC	P5C0008
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/4/15 19:37	KC	P5C0008
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/4/15 19:37	KC	P5C0008
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/4/15 19:37	KC	P5C0008
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/4/15 19:37	KC	P5C0008
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 19:37	KC	P5C0008
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/4/15 19:37	KC	P5C0008
Phenol	BRL	ug/L	10	0.90	1	625	3/4/15 19:37	KC	P5C0008
Pyrene	BRL	ug/L	10	1.5	1	625	3/4/15 19:37	KC	P5C0008
TIC: Unknown (1)	**27**	**ug/L**			**1**	**625**	**3/4/15 19:37**	**KC**	**P5C0008**

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*6 %*	*31-144*	*SE*
2-Fluorobiphenyl	*79 %*	*49-118*	
2-Fluorophenol	*3 %*	*22-84*	*SE*
Nitrobenzene-d5	*82 %*	*43-123*	
Phenol-d5	*2 %*	*10-63*	*SE*
Terphenyl-d14	*118 %*	*49-151*	

Total Metals

Lead	**0.012**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**2/25/15 16:40**	**BGM**	**P5B0457**

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 18:33	VHL	P5B0487

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-3
Prism Sample ID: 5020424-03
Prism Work Order: 5020424
Time Collected: 02/23/15 14:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,2,4-Trimethylbenzene	**0.73**	**ug/L**	**0.50**	**0.054**	**1**	**SM6200 B**	**2/24/15 18:33**	**VHL**	**P5B0487**
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 18:33	VHL	P5B0487

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-3
Prism Sample ID: 5020424-03
Prism Work Order: 5020424
Time Collected: 02/23/15 14:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Methyl-tert-Butyl Ether	**1.8**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/24/15 18:33**	**VHL**	**P5B0487**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
tert-Amyl Alcohol	**57 A**	**ug/L**	**10**	**0.72**	**1**	**SM6200 B**	**2/24/15 18:33**	**VHL**	**P5B0487**
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
tert-Butyl Alcohol	**21 A**	**ug/L**	**10**	**0.64**	**1**	**SM6200 B**	**2/24/15 18:33**	**VHL**	**P5B0487**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/24/15 18:33	VHL	P5B0487
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/24/15 18:33	VHL	P5B0487

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*70-130*
Dibromofluoromethane	*104 %*	*70-130*
Toluene-d8	*101 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**3.5 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**2/25/15 19:40**	**ANG**	**P5B0473**
C9-C12 Aliphatics	**11 J**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**2/25/15 19:40**	**ANG**	**P5B0473**
C9-C10 Aromatics	**3.2 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**2/25/15 19:40**	**ANG**	**P5B0473**

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*102 %*	*70-130*
2,5-Dibromotoluene (FID)	*102 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless MW-1
Prism Sample ID: 5020424-04
Prism Work Order: 5020424
Time Collected: 02/23/15 15:15
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/5/15 15:06	KC	P5B0466
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/5/15 15:06	KC	P5B0466
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/5/15 15:06	KC	P5B0466

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*80 %*	*40-140*
o-Terphenyl	*82 %*	*40-140*
2-Fluorobiphenyl	*88 %*	*40-140*
2-Bromonaphthalene	*76 %*	*40-140*

Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 19:58	KC	P5C0008
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 19:58	KC	P5C0008
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 19:58	KC	P5C0008
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 19:58	KC	P5C0008
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/4/15 19:58	KC	P5C0008
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 19:58	KC	P5C0008
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 19:58	KC	P5C0008
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/4/15 19:58	KC	P5C0008
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/4/15 19:58	KC	P5C0008
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	3/4/15 19:58	KC	P5C0008
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/4/15 19:58	KC	P5C0008
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/4/15 19:58	KC	P5C0008
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 19:58	KC	P5C0008
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 19:58	KC	P5C0008
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/4/15 19:58	KC	P5C0008
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/4/15 19:58	KC	P5C0008
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/4/15 19:58	KC	P5C0008
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/4/15 19:58	KC	P5C0008
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
Anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
Benzidine	BRL	ug/L	100	2.9	1	625	3/4/15 19:58	KC	P5C0008
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/4/15 19:58	KC	P5C0008
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/4/15 19:58	KC	P5C0008
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/4/15 19:58	KC	P5C0008
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/4/15 19:58	KC	P5C0008
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/4/15 19:58	KC	P5C0008

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless MW-1
Prism Sample ID: 5020424-04
Prism Work Order: 5020424
Time Collected: 02/23/15 15:15
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/4/15 19:58	KC	P5C0008
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/4/15 19:58	KC	P5C0008
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/4/15 19:58	KC	P5C0008
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/4/15 19:58	KC	P5C0008
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 19:58	KC	P5C0008
Chrysene	BRL	ug/L	10	1.4	1	625	3/4/15 19:58	KC	P5C0008
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	3/4/15 19:58	KC	P5C0008
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 19:58	KC	P5C0008
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/4/15 19:58	KC	P5C0008
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/4/15 19:58	KC	P5C0008
Fluorene	BRL	ug/L	10	1.5	1	625	3/4/15 19:58	KC	P5C0008
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/4/15 19:58	KC	P5C0008
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/4/15 19:58	KC	P5C0008
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/4/15 19:58	KC	P5C0008
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/4/15 19:58	KC	P5C0008
Isophorone	BRL	ug/L	10	1.5	1	625	3/4/15 19:58	KC	P5C0008
Naphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 19:58	KC	P5C0008
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/4/15 19:58	KC	P5C0008
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/4/15 19:58	KC	P5C0008
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/4/15 19:58	KC	P5C0008
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/4/15 19:58	KC	P5C0008
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 19:58	KC	P5C0008
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/4/15 19:58	KC	P5C0008
Phenol	BRL	ug/L	10	0.90	1	625	3/4/15 19:58	KC	P5C0008
Pyrene	BRL	ug/L	10	1.5	1	625	3/4/15 19:58	KC	P5C0008
TIC: Tentatively Identified Compounds	Not Detected	ug/L			1	625	3/4/15 19:58	KC	P5C0008

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*66 %*	*31-144*
2-Fluorobiphenyl	*62 %*	*49-118*
2-Fluorophenol	*36 %*	*22-84*
Nitrobenzene-d5	*71 %*	*43-123*
Phenol-d5	*23 %*	*10-63*
Terphenyl-d14	*96 %*	*49-151*

Volatile Organic 602 Compounds by GC/MS

1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 19:07	VHL	P5B0487
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 19:07	VHL	P5B0487
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 19:07	VHL	P5B0487

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless MW-1
Prism Sample ID: 5020424-04
Prism Work Order: 5020424
Time Collected: 02/23/15 15:15
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/24/15 19:07	VHL	P5B0487
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 19:07	VHL	P5B0487
Ethylbenzene	BRL	ug/L	1.0	0.061	1	SM6200 B	2/24/15 19:07	VHL	P5B0487
m,p-Xylenes	BRL	ug/L	2.0	0.12	1	SM6200 B	2/24/15 19:07	VHL	P5B0487
o-Xylene	BRL	ug/L	1.0	0.044	1	SM6200 B	2/24/15 19:07	VHL	P5B0487
Toluene	BRL	ug/L	1.0	0.044	1	SM6200 B	2/24/15 19:07	VHL	P5B0487
Xylenes, total	BRL	ug/L	3.0	0.15	1	SM6200 B	2/24/15 19:07	VHL	P5B0487

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*70-130*
Dibromofluoromethane	*105 %*	*70-130*
Toluene-d8	*100 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	2/25/15 20:13	ANG	P5B0473
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	2/25/15 20:13	ANG	P5B0473
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	2/25/15 20:13	ANG	P5B0473

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*96 %*	*70-130*
2,5-Dibromotoluene (FID)	*97 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-4
Prism Sample ID: 5020424-05
Prism Work Order: 5020424
Time Collected: 02/23/15 16:05
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	2/25/15 16:48	BGM	P5B0457
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/24/15 19:41	VHL	P5B0487

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-4
Prism Sample ID: 5020424-05
Prism Work Order: 5020424
Time Collected: 02/23/15 16:05
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Methyl-tert-Butyl Ether	**2.3**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/24/15 19:41**	**VHL**	**P5B0487**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
tert-Amyl Alcohol	BRL A	ug/L	10	0.72	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
tert-Butyl Alcohol	BRL A	ug/L	10	0.64	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/24/15 19:41	VHL	P5B0487
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/24/15 19:41	VHL	P5B0487

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*70-130*
Dibromofluoromethane	*105 %*	*70-130*
Toluene-d8	*100 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	2/25/15 20:46	ANG	P5B0473
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	2/25/15 20:46	ANG	P5B0473
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	2/25/15 20:46	ANG	P5B0473

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*97 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Payless TMW-4
Prism Sample ID: 5020424-05
Prism Work Order: 5020424
Time Collected: 02/23/15 16:05
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (FID)						*97 %*		*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dup-2
Prism Sample ID: 5020424-06
Prism Work Order: 5020424
Time Collected: 02/23/15 08:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/24/15 20:16	VHL	P5B0487

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dup-2
Prism Sample ID: 5020424-06
Prism Work Order: 5020424
Time Collected: 02/23/15 08:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Methyl-tert-Butyl Ether	**0.89 J**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/24/15 20:16**	**VHL**	**P5B0487**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
tert-Amyl Alcohol	BRL A	ug/L	10	0.72	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
tert-Butyl Alcohol	BRL A	ug/L	10	0.64	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/24/15 20:16	VHL	P5B0487
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/24/15 20:16	VHL	P5B0487

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*70-130*
Dibromofluoromethane	*108 %*	*70-130*
Toluene-d8	*99 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz TMW-1
Prism Sample ID: 5020424-07
Prism Work Order: 5020424
Time Collected: 02/24/15 10:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/5/15 15:43	KC	P5B0466
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/5/15 15:43	KC	P5B0466
C11-C22 Aromatics	**53 J**	**ug/L**	**100**	**20**	**1**	**MADEP EPH**	**3/5/15 15:43**	**KC**	**P5B0466**

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*78 %*	*40-140*
o-Terphenyl	*106 %*	*40-140*
2-Fluorobiphenyl	*112 %*	*40-140*
2-Bromonaphthalene	*85 %*	*40-140*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 20:19	KC	P5C0008
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 20:19	KC	P5C0008
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 20:19	KC	P5C0008
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 20:19	KC	P5C0008
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/4/15 20:19	KC	P5C0008
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 20:19	KC	P5C0008
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 20:19	KC	P5C0008
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/4/15 20:19	KC	P5C0008
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/4/15 20:19	KC	P5C0008
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	3/4/15 20:19	KC	P5C0008
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/4/15 20:19	KC	P5C0008
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/4/15 20:19	KC	P5C0008
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 20:19	KC	P5C0008
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 20:19	KC	P5C0008
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/4/15 20:19	KC	P5C0008
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/4/15 20:19	KC	P5C0008
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/4/15 20:19	KC	P5C0008
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/4/15 20:19	KC	P5C0008
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
Anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
Benzidine	BRL	ug/L	100	2.9	1	625	3/4/15 20:19	KC	P5C0008
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/4/15 20:19	KC	P5C0008
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/4/15 20:19	KC	P5C0008
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/4/15 20:19	KC	P5C0008
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/4/15 20:19	KC	P5C0008
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/4/15 20:19	KC	P5C0008

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz TMW-1
Prism Sample ID: 5020424-07
Prism Work Order: 5020424
Time Collected: 02/24/15 10:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/4/15 20:19	KC	P5C0008
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/4/15 20:19	KC	P5C0008
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/4/15 20:19	KC	P5C0008
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/4/15 20:19	KC	P5C0008
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 20:19	KC	P5C0008
Chrysene	BRL	ug/L	10	1.4	1	625	3/4/15 20:19	KC	P5C0008
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	3/4/15 20:19	KC	P5C0008
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 20:19	KC	P5C0008
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/4/15 20:19	KC	P5C0008
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/4/15 20:19	KC	P5C0008
Fluorene	BRL	ug/L	10	1.5	1	625	3/4/15 20:19	KC	P5C0008
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/4/15 20:19	KC	P5C0008
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/4/15 20:19	KC	P5C0008
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/4/15 20:19	KC	P5C0008
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/4/15 20:19	KC	P5C0008
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/4/15 20:19	KC	P5C0008
Isophorone	BRL	ug/L	10	1.5	1	625	3/4/15 20:19	KC	P5C0008
Naphthalene	**19**	**ug/L**	**10**	**1.6**	**1**	**625**	**3/4/15 20:19**	**KC**	**P5C0008**
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/4/15 20:19	KC	P5C0008
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/4/15 20:19	KC	P5C0008
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/4/15 20:19	KC	P5C0008
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/4/15 20:19	KC	P5C0008
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 20:19	KC	P5C0008
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/4/15 20:19	KC	P5C0008
Phenol	BRL	ug/L	10	0.90	1	625	3/4/15 20:19	KC	P5C0008
Pyrene	BRL	ug/L	10	1.5	1	625	3/4/15 20:19	KC	P5C0008
TIC: 2,4,6-Trimethyliodobenzene	**17**	**ug/L**			**1**	**625**	**3/4/15 20:19**	**KC**	**P5C0008**
TIC: p-Xylene	**23**	**ug/L**			**1**	**625**	**3/4/15 20:19**	**KC**	**P5C0008**
TIC: Unknown (1)	**18**	**ug/L**			**1**	**625**	**3/4/15 20:19**	**KC**	**P5C0008**
TIC: Unknown (2)	**21**	**ug/L**			**1**	**625**	**3/4/15 20:19**	**KC**	**P5C0008**
TIC: Unknown (3)	**140**	**ug/L**			**1**	**625**	**3/4/15 20:19**	**KC**	**P5C0008**

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*60 %*	*31-144*
2-Fluorobiphenyl	*71 %*	*49-118*
2-Fluorophenol	*36 %*	*22-84*
Nitrobenzene-d5	*79 %*	*43-123*
Phenol-d5	*26 %*	*10-63*
Terphenyl-d14	*103 %*	*49-151*

Total Metals

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz TMW-1
Prism Sample ID: 5020424-07
Prism Work Order: 5020424
Time Collected: 02/24/15 10:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chromium	**0.012**	**mg/L**	**0.0050**	**0.00038**	**1**	***6010C**	**2/25/15 16:55**	**BGM**	**P5B0457**
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	2/25/15 16:55	BGM	P5B0457
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,2,4-Trimethylbenzene	**1.7**	**ug/L**	**0.50**	**0.054**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
4-Isopropyltoluene	**0.80**	**ug/L**	**0.50**	**0.089**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Benzene	**78**	**ug/L**	**0.50**	**0.048**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/24/15 20:50	VHL	P5B0487

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz TMW-1
Prism Sample ID: 5020424-07
Prism Work Order: 5020424
Time Collected: 02/24/15 10:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Isopropylbenzene (Cumene)	**4.6**	**ug/L**	**0.50**	**0.054**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
m,p-Xylenes	**14**	**ug/L**	**1.0**	**0.12**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Methyl-tert-Butyl Ether	**0.53 J**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
Naphthalene	**30**	**ug/L**	**1.0**	**0.19**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
n-Butylbenzene	**1.1**	**ug/L**	**0.50**	**0.076**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
n-Propylbenzene	**2.3**	**ug/L**	**0.50**	**0.087**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
o-Xylene	**38**	**ug/L**	**0.50**	**0.044**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
sec-Butylbenzene	**0.53**	**ug/L**	**0.50**	**0.076**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
tert-Amyl Alcohol	**120 A**	**ug/L**	**50**	**3.6**	**5**	**SM6200 B**	**2/25/15 17:12**	**VHL**	**P5B0487**
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
tert-Butyl Alcohol	**6.2 A, J**	**ug/L**	**10**	**0.64**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Toluene	**0.71**	**ug/L**	**0.50**	**0.044**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Trichloroethylene	**0.55**	**ug/L**	**0.50**	**0.078**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/24/15 20:50	VHL	P5B0487
Xylenes, total	**52**	**ug/L**	**1.5**	**0.15**	**1**	**SM6200 B**	**2/24/15 20:50**	**VHL**	**P5B0487**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*105 %*	*70-130*
Dibromofluoromethane	*102 %*	*70-130*
Toluene-d8	*102 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**410**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**2/25/15 21:18**	**ANG**	**P5B0473**
C9-C12 Aliphatics	**140**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**2/25/15 21:18**	**ANG**	**P5B0473**
C9-C10 Aromatics	**38 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**2/25/15 21:18**	**ANG**	**P5B0473**

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz TMW-1
Prism Sample ID: 5020424-07
Prism Work Order: 5020424
Time Collected: 02/24/15 10:30
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (PID)							*106 %*	*70-130*	
2,5-Dibromotoluene (FID)							*107 %*	*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank 1
Prism Sample ID: 5020424-08
Prism Work Order: 5020424
Time Collected: 02/23/15 00:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic 602 Compounds by GC/MS									
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 21:24	VHL	P5B0487
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 21:24	VHL	P5B0487
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 21:24	VHL	P5B0487
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/24/15 21:24	VHL	P5B0487
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 21:24	VHL	P5B0487
Ethylbenzene	BRL	ug/L	1.0	0.061	1	SM6200 B	2/24/15 21:24	VHL	P5B0487
m,p-Xylenes	BRL	ug/L	2.0	0.12	1	SM6200 B	2/24/15 21:24	VHL	P5B0487
o-Xylene	BRL	ug/L	1.0	0.044	1	SM6200 B	2/24/15 21:24	VHL	P5B0487
Toluene	BRL	ug/L	1.0	0.044	1	SM6200 B	2/24/15 21:24	VHL	P5B0487
Xylenes, total	BRL	ug/L	3.0	0.15	1	SM6200 B	2/24/15 21:24	VHL	P5B0487

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*105 %*	*70-130*
Dibromofluoromethane	*104 %*	*70-130*
Toluene-d8	*102 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank 2
Prism Sample ID: 5020424-09
Prism Work Order: 5020424
Time Collected: 02/24/15 00:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/24/15 21:58	VHL	P5B0487

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank 2
Prism Sample ID: 5020424-09
Prism Work Order: 5020424
Time Collected: 02/24/15 00:00
Time Submitted: 02/24/15 12:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
tert-Amyl Alcohol	BRL A	ug/L	10	0.72	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
tert-Butyl Alcohol	BRL A	ug/L	10	0.64	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/24/15 21:58	VHL	P5B0487
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/24/15 21:58	VHL	P5B0487

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*70-130*
Dibromofluoromethane	*106 %*	*70-130*
Toluene-d8	*98 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
Blank (P5B0487-BLK1)				Prepared & Analyzed: 02/24/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	0.50	ug/L							
1,2,4-Trichlorobenzene	BRL	0.50	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	10	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	0.50	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethanol	BRL	200	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
Blank (P5B0487-BLK1)				Prepared & Analyzed: 02/24/15						
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	1.0	ug/L							
Methylene Chloride	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	1.0	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	0.50	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Amyl Alcohol	BRL	10	ug/L							
tert-Amyl Methyl Ether	BRL	10	ug/L							
tert-Butyl Alcohol	BRL	10	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
tert-Butyl Ethyl Ether	BRL	10	ug/L							
tert-Butyl Formate	BRL	10	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	5.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*27.5*		*ug/L*	*25.00*		*110*	*70-130*			
Surrogate: Dibromofluoromethane	*26.1*		*ug/L*	*25.00*		*104*	*70-130*			
Surrogate: Toluene-d8	*24.7*		*ug/L*	*25.00*		*99*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
LCS (P5B0487-BS1)				Prepared & Analyzed: 02/24/15						
1,1,1,2-Tetrachloroethane	20.5	0.50	ug/L	20.00		103	70-130			
1,1,1-Trichloroethane	21.1	0.50	ug/L	20.00		105	70-130			
1,1,2,2-Tetrachloroethane	18.4	0.50	ug/L	20.00		92	70-130			
1,1,2-Trichloroethane	19.7	0.50	ug/L	20.00		99	70-130			
1,1-Dichloroethane	20.0	0.50	ug/L	20.00		100	70-130			
1,1-Dichloroethylene	21.6	0.50	ug/L	20.00		108	70-130			
1,1-Dichloropropylene	23.1	0.50	ug/L	20.00		115	70-130			
1,2,3-Trichlorobenzene	20.9	0.50	ug/L	20.00		104	70-130			
1,2,3-Trichloropropane	18.5	0.50	ug/L	20.00		93	70-130			
1,2,4-Trichlorobenzene	21.1	0.50	ug/L	20.00		106	70-130			
1,2,4-Trimethylbenzene	21.8	0.50	ug/L	20.00		109	70-130			
1,2-Dibromo-3-chloropropane	20.7	2.0	ug/L	20.00		104	70-130			
1,2-Dibromoethane	20.9	0.50	ug/L	20.00		104	70-130			
1,2-Dichlorobenzene	20.3	0.50	ug/L	20.00		102	70-130			
1,2-Dichloroethane	20.0	0.50	ug/L	20.00		100	70-130			
1,2-Dichloropropane	19.8	0.50	ug/L	20.00		99	70-130			
1,3,5-Trimethylbenzene	22.3	0.50	ug/L	20.00		111	70-130			
1,3-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	70-130			
1,3-Dichloropropane	20.2	0.50	ug/L	20.00		101	70-130			
1,4-Dichlorobenzene	20.2	0.50	ug/L	20.00		101	70-130			
2,2-Dichloropropane	21.6	2.0	ug/L	20.00		108	70-130			
2-Chlorotoluene	20.9	0.50	ug/L	20.00		104	70-130			
4-Chlorotoluene	21.1	0.50	ug/L	20.00		105	70-130			
4-Isopropyltoluene	22.2	0.50	ug/L	20.00		111	70-130			
Acetone	42.8	10	ug/L	40.00		107	40-160			
Benzene	21.2	0.50	ug/L	20.00		106	70-130			
Bromobenzene	20.3	0.50	ug/L	20.00		101	70-130			
Bromochloromethane	20.9	0.50	ug/L	20.00		104	70-130			
Bromodichloromethane	19.4	0.50	ug/L	20.00		97	70-130			
Bromoform	18.2	0.50	ug/L	20.00		91	70-130			
Bromomethane	14.9	1.0	ug/L	20.00		74	60-140			
Carbon Tetrachloride	21.5	0.50	ug/L	20.00		107	70-130			
Chlorobenzene	20.8	0.50	ug/L	20.00		104	70-130			
Chloroethane	20.4	0.50	ug/L	20.00		102	60-140			
Chloroform	18.8	0.50	ug/L	20.00		94	70-130			
Chloromethane	21.0	0.50	ug/L	20.00		105	60-140			
cis-1,2-Dichloroethylene	20.5	0.50	ug/L	20.00		102	70-130			
cis-1,3-Dichloropropylene	20.7	0.50	ug/L	20.00		104	70-130			
Dibromochloromethane	19.0	0.50	ug/L	20.00		95	70-130			
Dibromomethane	17.8	0.50	ug/L	20.00		89	70-130			
Dichlorodifluoromethane	22.3	1.0	ug/L	20.00		112	60-140			
Ethanol	552	200	ug/L	500.0		110	60-140			
Ethylbenzene	21.4	0.50	ug/L	20.00		107	70-130			
Hexachlorobutadiene	21.8	2.0	ug/L	20.00		109	70-130			
Isopropyl Ether	17.5	0.50	ug/L	20.00		88	70-130			
Isopropylbenzene (Cumene)	23.4	0.50	ug/L	20.00		117	70-130			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
LCS (P5B0487-BS1)				Prepared & Analyzed: 02/24/15						
m,p-Xylenes	44.6	1.0	ug/L	40.00		112	70-130			
Methyl Butyl Ketone (2-Hexanone)	21.1	1.0	ug/L	20.00		106	60-140			
Methyl Ethyl Ketone (2-Butanone)	18.2	5.0	ug/L	20.00		91	60-140			
Methyl Isobutyl Ketone	18.5	1.0	ug/L	20.00		92	60-140			
Methylene Chloride	20.9	2.0	ug/L	20.00		105	70-130			
Methyl-tert-Butyl Ether	19.3	1.0	ug/L	20.00		96	70-130			
Naphthalene	19.8	1.0	ug/L	20.00		99	70-130			
n-Butylbenzene	23.0	0.50	ug/L	20.00		115	70-130			
n-Propylbenzene	22.9	0.50	ug/L	20.00		115	70-130			
o-Xylene	21.8	0.50	ug/L	20.00		109	70-130			
sec-Butylbenzene	21.3	0.50	ug/L	20.00		106	70-130			
Styrene	21.7	0.50	ug/L	20.00		108	70-130			
tert-Amyl Alcohol	21.0	10	ug/L	20.00		105	70-130			
tert-Amyl Methyl Ether	40.2	10	ug/L	40.00		101	70-130			
tert-Butyl Alcohol	30.2	10	ug/L	40.00		76	70-130			
tert-Butylbenzene	22.4	0.50	ug/L	20.00		112	70-130			
tert-Butyl Ethyl Ether	39.6	10	ug/L	40.00		99	70-130			
tert-Butyl Formate	38.9	10	ug/L	40.00		97	70-130			
Tetrachloroethylene	20.7	0.50	ug/L	20.00		104	70-130			
Toluene	20.7	0.50	ug/L	20.00		104	70-130			
trans-1,2-Dichloroethylene	22.1	0.50	ug/L	20.00		111	70-130			
trans-1,3-Dichloropropylene	20.1	0.50	ug/L	20.00		101	70-130			
Trichloroethylene	20.8	0.50	ug/L	20.00		104	70-130			
Trichlorofluoromethane	23.4	0.50	ug/L	20.00		117	60-140			
Vinyl acetate	21.0	5.0	ug/L	20.00		105	60-140			
Vinyl chloride	22.1	0.50	ug/L	20.00		110	60-140			
Xylenes, total	66.5	1.5	ug/L	60.00		111	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/L*	*25.00*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*25.6*		*ug/L*	*25.00*		*102*	*70-130*			
Surrogate: Toluene-d8	*26.0*		*ug/L*	*25.00*		*104*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
LCS Dup (P5B0487-BSD1)				Prepared & Analyzed: 02/24/15						
1,1,1,2-Tetrachloroethane	19.7	0.50	ug/L	20.00		98	70-130	4	20	
1,1,1-Trichloroethane	20.9	0.50	ug/L	20.00		104	70-130	1	20	
1,1,2,2-Tetrachloroethane	19.5	0.50	ug/L	20.00		97	70-130	6	20	
1,1,2-Trichloroethane	19.5	0.50	ug/L	20.00		98	70-130	1	20	
1,1-Dichloroethane	19.1	0.50	ug/L	20.00		96	70-130	4	20	
1,1-Dichloroethylene	21.9	0.50	ug/L	20.00		110	70-130	2	20	
1,1-Dichloropropylene	23.8	0.50	ug/L	20.00		119	70-130	3	20	
1,2,3-Trichlorobenzene	21.6	0.50	ug/L	20.00		108	70-130	4	20	
1,2,3-Trichloropropane	18.0	0.50	ug/L	20.00		90	70-130	3	20	
1,2,4-Trichlorobenzene	21.8	0.50	ug/L	20.00		109	70-130	3	20	
1,2,4-Trimethylbenzene	22.1	0.50	ug/L	20.00		111	70-130	2	20	
1,2-Dibromo-3-chloropropane	19.9	2.0	ug/L	20.00		99	70-130	4	20	
1,2-Dibromoethane	20.7	0.50	ug/L	20.00		104	70-130	0.6	20	
1,2-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	70-130	3	20	
1,2-Dichloroethane	20.0	0.50	ug/L	20.00		100	70-130	0.3	20	
1,2-Dichloropropane	20.4	0.50	ug/L	20.00		102	70-130	3	20	
1,3,5-Trimethylbenzene	22.4	0.50	ug/L	20.00		112	70-130	0.5	20	
1,3-Dichlorobenzene	20.6	0.50	ug/L	20.00		103	70-130	1	20	
1,3-Dichloropropane	19.7	0.50	ug/L	20.00		98	70-130	3	20	
1,4-Dichlorobenzene	20.9	0.50	ug/L	20.00		104	70-130	3	20	
2,2-Dichloropropane	20.9	2.0	ug/L	20.00		104	70-130	4	20	
2-Chlorotoluene	21.0	0.50	ug/L	20.00		105	70-130	0.3	20	
4-Chlorotoluene	21.2	0.50	ug/L	20.00		106	70-130	0.7	20	
4-Isopropyltoluene	22.5	0.50	ug/L	20.00		112	70-130	1	20	
Acetone	41.4	10	ug/L	40.00		103	40-160	3	20	
Benzene	20.7	0.50	ug/L	20.00		104	70-130	2	20	
Bromobenzene	19.6	0.50	ug/L	20.00		98	70-130	4	20	
Bromochloromethane	20.2	0.50	ug/L	20.00		101	70-130	4	20	
Bromodichloromethane	18.4	0.50	ug/L	20.00		92	70-130	6	20	
Bromoform	18.7	0.50	ug/L	20.00		93	70-130	3	20	
Bromomethane	16.5	1.0	ug/L	20.00		83	60-140	11	20	
Carbon Tetrachloride	20.7	0.50	ug/L	20.00		104	70-130	3	20	
Chlorobenzene	20.4	0.50	ug/L	20.00		102	70-130	2	20	
Chloroethane	20.9	0.50	ug/L	20.00		104	60-140	2	20	
Chloroform	18.0	0.50	ug/L	20.00		90	70-130	4	20	
Chloromethane	20.8	0.50	ug/L	20.00		104	60-140	1	20	
cis-1,2-Dichloroethylene	20.5	0.50	ug/L	20.00		102	70-130	0.1	20	
cis-1,3-Dichloropropylene	20.8	0.50	ug/L	20.00		104	70-130	0.1	20	
Dibromochloromethane	18.9	0.50	ug/L	20.00		94	70-130	0.5	20	
Dibromomethane	18.5	0.50	ug/L	20.00		92	70-130	4	20	
Dichlorodifluoromethane	22.4	1.0	ug/L	20.00		112	60-140	0.6	20	
Ethanol	567	200	ug/L	500.0		113	60-140	3	20	
Ethylbenzene	21.0	0.50	ug/L	20.00		105	70-130	2	20	
Hexachlorobutadiene	21.4	2.0	ug/L	20.00		107	70-130	2	20	
Isopropyl Ether	17.3	0.50	ug/L	20.00		87	70-130	1	20	
Isopropylbenzene (Cumene)	23.1	0.50	ug/L	20.00		116	70-130	1	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
LCS Dup (P5B0487-BSD1)				Prepared & Analyzed: 02/24/15						
m,p-Xylenes	44.1	1.0	ug/L	40.00		110	70-130	1	20	
Methyl Butyl Ketone (2-Hexanone)	20.3	1.0	ug/L	20.00		102	60-140	4	20	
Methyl Ethyl Ketone (2-Butanone)	19.6	5.0	ug/L	20.00		98	60-140	7	20	
Methyl Isobutyl Ketone	18.6	1.0	ug/L	20.00		93	60-140	0.6	20	
Methylene Chloride	21.1	2.0	ug/L	20.00		106	70-130	1	20	
Methyl-tert-Butyl Ether	19.6	1.0	ug/L	20.00		98	70-130	2	20	
Naphthalene	20.2	1.0	ug/L	20.00		101	70-130	2	20	
n-Butylbenzene	22.7	0.50	ug/L	20.00		114	70-130	1	20	
n-Propylbenzene	23.0	0.50	ug/L	20.00		115	70-130	0.2	20	
o-Xylene	21.3	0.50	ug/L	20.00		107	70-130	2	20	
sec-Butylbenzene	22.0	0.50	ug/L	20.00		110	70-130	4	20	
Styrene	21.9	0.50	ug/L	20.00		110	70-130	0.9	20	
tert-Amyl Alcohol	16.6	10	ug/L	20.00		83	70-130	23	20	D
tert-Amyl Methyl Ether	40.5	10	ug/L	40.00		101	70-130	0.7	20	
tert-Butyl Alcohol	29.9	10	ug/L	40.00		75	70-130	1	20	
tert-Butylbenzene	22.2	0.50	ug/L	20.00		111	70-130	0.6	20	
tert-Butyl Ethyl Ether	40.4	10	ug/L	40.00		101	70-130	2	20	
tert-Butyl Formate	36.8	10	ug/L	40.00		92	70-130	6	20	
Tetrachloroethylene	20.4	0.50	ug/L	20.00		102	70-130	2	20	
Toluene	20.2	0.50	ug/L	20.00		101	70-130	2	20	
trans-1,2-Dichloroethylene	21.6	0.50	ug/L	20.00		108	70-130	2	20	
trans-1,3-Dichloropropylene	19.8	0.50	ug/L	20.00		99	70-130	1	20	
Trichloroethylene	21.3	0.50	ug/L	20.00		106	70-130	2	20	
Trichlorofluoromethane	23.9	0.50	ug/L	20.00		119	60-140	2	20	
Vinyl acetate	21.5	5.0	ug/L	20.00		108	60-140	3	20	
Vinyl chloride	22.8	0.50	ug/L	20.00		114	60-140	3	20	
Xylenes, total	65.4	1.5	ug/L	60.00		109	70-130	2	20	
Surrogate: 4-Bromofluorobenzene	*25.1*		*ug/L*	*25.00*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*24.8*		*ug/L*	*25.00*		*99*	*70-130*			
Surrogate: Toluene-d8	*25.4*		*ug/L*	*25.00*		*102*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
Matrix Spike (P5B0487-MS1)	**Source: 5020424-01**			Prepared: 02/24/15 Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	180	5.0	ug/L	200.0	BRL	90	70-130			
1,1,1-Trichloroethane	201	5.0	ug/L	200.0	BRL	101	70-130			
1,1,2,2-Tetrachloroethane	175	5.0	ug/L	200.0	BRL	88	70-130			
1,1,2-Trichloroethane	188	5.0	ug/L	200.0	BRL	94	70-130			
1,1-Dichloroethane	181	5.0	ug/L	200.0	BRL	91	70-130			
1,1-Dichloroethylene	214	5.0	ug/L	200.0	BRL	107	70-130			
1,1-Dichloropropylene	213	5.0	ug/L	200.0	BRL	106	70-130			
1,2,3-Trichlorobenzene	193	5.0	ug/L	200.0	BRL	96	70-130			
1,2,3-Trichloropropane	169	5.0	ug/L	200.0	BRL	84	70-130			
1,2,4-Trichlorobenzene	199	5.0	ug/L	200.0	BRL	100	70-130			
1,2,4-Trimethylbenzene	201	5.0	ug/L	200.0	BRL	101	70-130			
1,2-Dibromo-3-chloropropane	205	20	ug/L	200.0	BRL	102	70-130			
1,2-Dibromoethane	189	5.0	ug/L	200.0	BRL	94	70-130			
1,2-Dichlorobenzene	193	5.0	ug/L	200.0	BRL	97	70-130			
1,2-Dichloroethane	188	5.0	ug/L	200.0	BRL	94	70-130			
1,2-Dichloropropane	186	5.0	ug/L	200.0	BRL	93	70-130			
1,3,5-Trimethylbenzene	200	5.0	ug/L	200.0	BRL	100	70-130			
1,3-Dichlorobenzene	184	5.0	ug/L	200.0	BRL	92	70-130			
1,3-Dichloropropane	190	5.0	ug/L	200.0	BRL	95	70-130			
1,4-Dichlorobenzene	183	5.0	ug/L	200.0	BRL	92	70-130			
2,2-Dichloropropane	137	20	ug/L	200.0	BRL	69	70-130			M
2-Chlorotoluene	192	5.0	ug/L	200.0	BRL	96	70-130			
4-Chlorotoluene	194	5.0	ug/L	200.0	BRL	97	70-130			
4-Isopropyltoluene	199	5.0	ug/L	200.0	BRL	100	70-130			
Acetone	429	100	ug/L	400.0	BRL	107	40-160			
Benzene	200	5.0	ug/L	200.0	BRL	100	70-130			
Bromobenzene	180	5.0	ug/L	200.0	BRL	90	70-130			
Bromochloromethane	209	5.0	ug/L	200.0	BRL	104	70-130			
Bromodichloromethane	178	5.0	ug/L	200.0	BRL	89	70-130			
Bromoform	179	5.0	ug/L	200.0	BRL	90	70-130			
Bromomethane	135	10	ug/L	200.0	BRL	68	60-140			
Carbon Tetrachloride	193	5.0	ug/L	200.0	BRL	96	70-130			
Chlorobenzene	193	5.0	ug/L	200.0	BRL	96	70-130			
Chloroethane	183	5.0	ug/L	200.0	BRL	92	60-140			
Chloroform	174	5.0	ug/L	200.0	BRL	87	70-130			
Chloromethane	200	5.0	ug/L	200.0	BRL	100	60-140			
cis-1,2-Dichloroethylene	190	5.0	ug/L	200.0	BRL	95	70-130			
cis-1,3-Dichloropropylene	174	5.0	ug/L	200.0	BRL	87	70-130			
Dibromochloromethane	177	5.0	ug/L	200.0	BRL	88	70-130			
Dibromomethane	177	5.0	ug/L	200.0	BRL	89	70-130			
Dichlorodifluoromethane	214	10	ug/L	200.0	BRL	107	60-140			
Ethanol	5890	2000	ug/L	5000	BRL	118	60-140			
Ethylbenzene	198	5.0	ug/L	200.0	BRL	99	70-130			
Hexachlorobutadiene	185	20	ug/L	200.0	BRL	92	70-130			
Isopropyl Ether	170	5.0	ug/L	200.0	BRL	85	70-130			
Isopropylbenzene (Cumene)	209	5.0	ug/L	200.0	BRL	105	70-130			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
Matrix Spike (P5B0487-MS1)	**Source: 5020424-01**			Prepared: 02/24/15 Analyzed: 02/25/15						
m,p-Xylenes	416	10	ug/L	400.0	BRL	104	70-130			
Methyl Butyl Ketone (2-Hexanone)	206	10	ug/L	200.0	BRL	103	60-140			
Methyl Ethyl Ketone (2-Butanone)	192	50	ug/L	200.0	BRL	96	60-140			
Methyl Isobutyl Ketone	183	10	ug/L	200.0	BRL	92	60-140			
Methylene Chloride	201	20	ug/L	200.0	BRL	100	70-130			
Methyl-tert-Butyl Ether	192	10	ug/L	200.0	BRL	96	70-130			
Naphthalene	187	10	ug/L	200.0	BRL	93	70-130			
n-Butylbenzene	203	5.0	ug/L	200.0	BRL	102	70-130			
n-Propylbenzene	205	5.0	ug/L	200.0	BRL	102	70-130			
o-Xylene	205	5.0	ug/L	200.0	BRL	103	70-130			
sec-Butylbenzene	192	5.0	ug/L	200.0	BRL	96	70-130			
Styrene	206	5.0	ug/L	200.0	BRL	103	70-130			
tert-Amyl Alcohol	190	100	ug/L	200.0	BRL	95	70-130			
tert-Amyl Methyl Ether	389	100	ug/L	400.0	BRL	97	70-130			
tert-Butyl Alcohol	308	100	ug/L	400.0	BRL	77	70-130			
tert-Butylbenzene	198	5.0	ug/L	200.0	BRL	99	70-130			
tert-Butyl Ethyl Ether	380	100	ug/L	400.0	BRL	95	70-130			
tert-Butyl Formate	121	100	ug/L	400.0	BRL	30	70-130			M
Tetrachloroethylene	188	5.0	ug/L	200.0	BRL	94	70-130			
Toluene	199	5.0	ug/L	200.0	BRL	99	70-130			
trans-1,2-Dichloroethylene	200	5.0	ug/L	200.0	BRL	100	70-130			
trans-1,3-Dichloropropylene	181	5.0	ug/L	200.0	BRL	91	70-130			
Trichloroethylene	198	5.0	ug/L	200.0	BRL	99	70-130			
Trichlorofluoromethane	234	5.0	ug/L	200.0	BRL	117	60-140			
Vinyl acetate	207	50	ug/L	200.0	BRL	103	60-140			
Vinyl chloride	219	5.0	ug/L	200.0	BRL	110	60-140			
Xylenes, total	622	15	ug/L	600.0	BRL	104	70-130			
Surrogate: 4-Bromofluorobenzene	*26.1*		*ug/L*	*25.00*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*25.5*		*ug/L*	*25.00*		*102*	*70-130*			
Surrogate: Toluene-d8	*24.9*		*ug/L*	*25.00*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
Matrix Spike Dup (P5B0487-MSD1)	**Source: 5020424-01**			Prepared: 02/24/15 Analyzed: 02/25/15						
1,1,1,2-Tetrachloroethane	187	5.0	ug/L	200.0	BRL	94	70-130	4	20	
1,1,1-Trichloroethane	202	5.0	ug/L	200.0	BRL	101	70-130	0.5	20	
1,1,2,2-Tetrachloroethane	185	5.0	ug/L	200.0	BRL	92	70-130	5	20	
1,1,2-Trichloroethane	204	5.0	ug/L	200.0	BRL	102	70-130	8	20	
1,1-Dichloroethane	186	5.0	ug/L	200.0	BRL	93	70-130	2	20	
1,1-Dichloroethylene	220	5.0	ug/L	200.0	BRL	110	70-130	3	20	
1,1-Dichloropropylene	220	5.0	ug/L	200.0	BRL	110	70-130	3	20	
1,2,3-Trichlorobenzene	190	5.0	ug/L	200.0	BRL	95	70-130	1	20	
1,2,3-Trichloropropane	180	5.0	ug/L	200.0	BRL	90	70-130	7	20	
1,2,4-Trichlorobenzene	198	5.0	ug/L	200.0	BRL	99	70-130	0.6	20	
1,2,4-Trimethylbenzene	203	5.0	ug/L	200.0	BRL	102	70-130	1	20	
1,2-Dibromo-3-chloropropane	200	20	ug/L	200.0	BRL	100	70-130	2	20	
1,2-Dibromoethane	202	5.0	ug/L	200.0	BRL	101	70-130	7	20	
1,2-Dichlorobenzene	193	5.0	ug/L	200.0	BRL	96	70-130	0.4	20	
1,2-Dichloroethane	189	5.0	ug/L	200.0	BRL	95	70-130	0.4	20	
1,2-Dichloropropane	192	5.0	ug/L	200.0	BRL	96	70-130	3	20	
1,3,5-Trimethylbenzene	209	5.0	ug/L	200.0	BRL	104	70-130	5	20	
1,3-Dichlorobenzene	188	5.0	ug/L	200.0	BRL	94	70-130	2	20	
1,3-Dichloropropane	185	5.0	ug/L	200.0	BRL	93	70-130	2	20	
1,4-Dichlorobenzene	189	5.0	ug/L	200.0	BRL	95	70-130	3	20	
2,2-Dichloropropane	136	20	ug/L	200.0	BRL	68	70-130	0.6	20	M
2-Chlorotoluene	202	5.0	ug/L	200.0	BRL	101	70-130	5	20	
4-Chlorotoluene	195	5.0	ug/L	200.0	BRL	98	70-130	0.6	20	
4-Isopropyltoluene	212	5.0	ug/L	200.0	BRL	106	70-130	7	20	
Acetone	464	100	ug/L	400.0	BRL	116	40-160	8	20	
Benzene	205	5.0	ug/L	200.0	BRL	102	70-130	2	20	
Bromobenzene	183	5.0	ug/L	200.0	BRL	91	70-130	1	20	
Bromochloromethane	208	5.0	ug/L	200.0	BRL	104	70-130	0.2	20	
Bromodichloromethane	178	5.0	ug/L	200.0	BRL	89	70-130	0.2	20	
Bromoform	180	5.0	ug/L	200.0	BRL	90	70-130	0.06	20	
Bromomethane	166	10	ug/L	200.0	BRL	83	60-140	20	20	
Carbon Tetrachloride	201	5.0	ug/L	200.0	BRL	100	70-130	4	20	
Chlorobenzene	194	5.0	ug/L	200.0	BRL	97	70-130	0.5	20	
Chloroethane	192	5.0	ug/L	200.0	BRL	96	60-140	5	20	
Chloroform	180	5.0	ug/L	200.0	BRL	90	70-130	4	20	
Chloromethane	197	5.0	ug/L	200.0	BRL	98	60-140	1	20	
cis-1,2-Dichloroethylene	201	5.0	ug/L	200.0	BRL	101	70-130	6	20	
cis-1,3-Dichloropropylene	186	5.0	ug/L	200.0	BRL	93	70-130	7	20	
Dibromochloromethane	178	5.0	ug/L	200.0	BRL	89	70-130	0.3	20	
Dibromomethane	182	5.0	ug/L	200.0	BRL	91	70-130	3	20	
Dichlorodifluoromethane	220	10	ug/L	200.0	BRL	110	60-140	3	20	
Ethanol	4270	2000	ug/L	5000	BRL	85	60-140	32	20	D
Ethylbenzene	202	5.0	ug/L	200.0	BRL	101	70-130	2	20	
Hexachlorobutadiene	196	20	ug/L	200.0	BRL	98	70-130	6	20	
Isopropyl Ether	171	5.0	ug/L	200.0	BRL	85	70-130	0.6	20	
Isopropylbenzene (Cumene)	220	5.0	ug/L	200.0	BRL	110	70-130	5	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
Matrix Spike Dup (P5B0487-MSD1)	**Source: 5020424-01**			Prepared: 02/24/15 Analyzed: 02/25/15						
m,p-Xylenes	419	10	ug/L	400.0	BRL	105	70-130	0.7	20	
Methyl Butyl Ketone (2-Hexanone)	206	10	ug/L	200.0	BRL	103	60-140	0.2	20	
Methyl Ethyl Ketone (2-Butanone)	205	50	ug/L	200.0	BRL	102	60-140	7	20	
Methyl Isobutyl Ketone	199	10	ug/L	200.0	BRL	99	60-140	8	20	
Methylene Chloride	207	20	ug/L	200.0	BRL	104	70-130	3	20	
Methyl-tert-Butyl Ether	193	10	ug/L	200.0	BRL	97	70-130	0.8	20	
Naphthalene	197	10	ug/L	200.0	BRL	99	70-130	6	20	
n-Butylbenzene	206	5.0	ug/L	200.0	BRL	103	70-130	2	21	
n-Propylbenzene	212	5.0	ug/L	200.0	BRL	106	70-130	3	18	
o-Xylene	203	5.0	ug/L	200.0	BRL	101	70-130	1	20	
sec-Butylbenzene	204	5.0	ug/L	200.0	BRL	102	70-130	6	20	
Styrene	210	5.0	ug/L	200.0	BRL	105	70-130	2	20	
tert-Amyl Alcohol	191	100	ug/L	200.0	BRL	95	70-130	0.6	20	
tert-Amyl Methyl Ether	394	100	ug/L	400.0	BRL	98	70-130	1	20	
tert-Butyl Alcohol	313	100	ug/L	400.0	BRL	78	70-130	1	20	
tert-Butylbenzene	209	5.0	ug/L	200.0	BRL	104	70-130	6	20	
tert-Butyl Ethyl Ether	391	100	ug/L	400.0	BRL	98	70-130	3	20	
tert-Butyl Formate	99.1	100	ug/L	400.0	BRL	25	70-130	20	20	M, J
Tetrachloroethylene	191	5.0	ug/L	200.0	BRL	95	70-130	1	20	
Toluene	201	5.0	ug/L	200.0	BRL	100	70-130	1	20	
trans-1,2-Dichloroethylene	207	5.0	ug/L	200.0	BRL	104	70-130	3	20	
trans-1,3-Dichloropropylene	188	5.0	ug/L	200.0	BRL	94	70-130	4	20	
Trichloroethylene	206	5.0	ug/L	200.0	BRL	103	70-130	4	20	
Trichlorofluoromethane	244	5.0	ug/L	200.0	BRL	122	60-140	4	20	
Vinyl acetate	205	50	ug/L	200.0	BRL	103	60-140	0.6	20	
Vinyl chloride	226	5.0	ug/L	200.0	BRL	113	60-140	3	20	
Xylenes, total	622	15	ug/L	600.0	BRL	104	70-130	0.03	20	
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/L*	*25.00*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*25.4*		*ug/L*	*25.00*		*102*	*70-130*			
Surrogate: Toluene-d8	*24.8*		*ug/L*	*25.00*		*99*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic 602 Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
Blank (P5B0487-BLK1)				Prepared & Analyzed: 02/24/15						
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
Benzene	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Ethylbenzene	BRL	1.0	ug/L							
m,p-Xylenes	BRL	2.0	ug/L							
o-Xylene	BRL	1.0	ug/L							
Toluene	BRL	1.0	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*27.5*		*ug/L*	*25.00*		*110*	*70-130*			
Surrogate: Dibromofluoromethane	*26.1*		*ug/L*	*25.00*		*104*	*70-130*			
Surrogate: Toluene-d8	*24.7*		*ug/L*	*25.00*		*99*	*70-130*			
LCS (P5B0487-BS1)				Prepared & Analyzed: 02/24/15						
1,2-Dichlorobenzene	20.3	0.50	ug/L	20.00		102	70-130			
1,3-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	70-130			
1,4-Dichlorobenzene	20.2	0.50	ug/L	20.00		101	70-130			
Benzene	21.2	0.50	ug/L	20.00		106	70-130			
Chlorobenzene	20.8	0.50	ug/L	20.00		104	70-130			
Ethylbenzene	21.4	1.0	ug/L	20.00		107	70-130			
m,p-Xylenes	44.6	2.0	ug/L	40.00		112	70-130			
o-Xylene	21.8	1.0	ug/L	20.00		109	70-130			
Toluene	20.7	1.0	ug/L	20.00		104	70-130			
Xylenes, total	66.5	3.0	ug/L	60.00		111	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/L*	*25.00*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*25.6*		*ug/L*	*25.00*		*102*	*70-130*			
Surrogate: Toluene-d8	*26.0*		*ug/L*	*25.00*		*104*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic 602 Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
LCS Dup (P5B0487-BSD1)				Prepared & Analyzed: 02/24/15						
1,2-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	70-130	3	20	
1,3-Dichlorobenzene	20.6	0.50	ug/L	20.00		103	70-130	1	20	
1,4-Dichlorobenzene	20.9	0.50	ug/L	20.00		104	70-130	3	20	
Benzene	20.7	0.50	ug/L	20.00		104	70-130	2	20	
Chlorobenzene	20.4	0.50	ug/L	20.00		102	70-130	2	20	
Ethylbenzene	21.0	1.0	ug/L	20.00		105	70-130	2	20	
m,p-Xylenes	44.1	2.0	ug/L	40.00		110	70-130	1	20	
o-Xylene	21.3	1.0	ug/L	20.00		107	70-130	2	20	
Toluene	20.2	1.0	ug/L	20.00		101	70-130	2	20	
Xylenes, total	65.4	3.0	ug/L	60.00		109	70-130	2	20	
Surrogate: 4-Bromofluorobenzene	*25.1*		*ug/L*	*25.00*		*101*	*70-130*			
Surrogate: Dibromofluoromethane	*24.8*		*ug/L*	*25.00*		*99*	*70-130*			
Surrogate: Toluene-d8	*25.4*		*ug/L*	*25.00*		*102*	*70-130*			
Matrix Spike (P5B0487-MS1)	**Source: 5020424-01**			Prepared: 02/24/15 Analyzed: 02/25/15						
1,2-Dichlorobenzene	193	5.0	ug/L	200.0	BRL	97	70-130			
1,3-Dichlorobenzene	184	5.0	ug/L	200.0	BRL	92	70-130			
1,4-Dichlorobenzene	183	5.0	ug/L	200.0	BRL	92	70-130			
Benzene	200	5.0	ug/L	200.0	BRL	100	70-130			
Chlorobenzene	193	5.0	ug/L	200.0	BRL	96	70-130			
Ethylbenzene	198	10	ug/L	200.0	BRL	99	70-130			
m,p-Xylenes	416	20	ug/L	400.0	BRL	104	70-130			
o-Xylene	205	10	ug/L	200.0	BRL	103	70-130			
Toluene	199	10	ug/L	200.0	BRL	99	70-130			
Xylenes, total	622	30	ug/L	600.0	BRL	104	70-130			
Surrogate: 4-Bromofluorobenzene	*26.1*		*ug/L*	*25.00*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*25.5*		*ug/L*	*25.00*		*102*	*70-130*			
Surrogate: Toluene-d8	*24.9*		*ug/L*	*25.00*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Organic 602 Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0487 - SM6200 B										
Matrix Spike Dup (P5B0487-MSD1)	**Source: 5020424-01**			Prepared: 02/24/15 Analyzed: 02/25/15						
1,2-Dichlorobenzene	193	5.0	ug/L	200.0	BRL	96	70-130	0.4	20	
1,3-Dichlorobenzene	188	5.0	ug/L	200.0	BRL	94	70-130	2	20	
1,4-Dichlorobenzene	189	5.0	ug/L	200.0	BRL	95	70-130	3	20	
Benzene	205	5.0	ug/L	200.0	BRL	102	70-130	2	20	
Chlorobenzene	194	5.0	ug/L	200.0	BRL	97	70-130	0.5	20	
Ethylbenzene	202	10	ug/L	200.0	BRL	101	70-130	2	20	
m,p-Xylenes	419	20	ug/L	400.0	BRL	105	70-130	0.7	20	
o-Xylene	203	10	ug/L	200.0	BRL	101	70-130	1	20	
Toluene	201	10	ug/L	200.0	BRL	100	70-130	1	20	
Xylenes, total	622	30	ug/L	600.0	BRL	104	70-130	0.03	20	
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/L*	*25.00*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*25.4*		*ug/L*	*25.00*		*102*	*70-130*			
Surrogate: Toluene-d8	*24.8*		*ug/L*	*25.00*		*99*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
Blank (P5C0008-BLK1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitrophenol	BRL	50	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Benzidine	BRL	100	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
Blank (P5C0008-BLK1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitrosodimethylamine	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Tentatively Identified Compounds	Not Detected		ug/L							
Surrogate: 2,4,6-Tribromophenol	*78.8*		*ug/L*	*100.0*		*79*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*44.9*		*ug/L*	*50.00*		*90*	*49-118*			
Surrogate: 2-Fluorophenol	*55.1*		*ug/L*	*100.0*		*55*	*22-84*			
Surrogate: Nitrobenzene-d5	*52.7*		*ug/L*	*50.00*		*105*	*43-123*			
Surrogate: Phenol-d5	*34.5*		*ug/L*	*100.0*		*35*	*10-63*			
Surrogate: Terphenyl-d14	*57.1*		*ug/L*	*50.00*		*114*	*49-151*			
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	68.3	10	ug/L	100.0		68	44-142			
1,2-Dichlorobenzene	68.0	10	ug/L	100.0		68	32-129			
1,3-Dichlorobenzene	64.4	10	ug/L	100.0		64	20-124			
1,4-Dichlorobenzene	64.8	10	ug/L	100.0		65	20-124			
1-Methylnaphthalene	73.1	10	ug/L	100.0		73	40-135			
2,4,6-Trichlorophenol	88.0	10	ug/L	100.0		88	37-144			
2,4-Dichlorophenol	70.1	10	ug/L	100.0		70	39-135			
2,4-Dimethylphenol	69.7	10	ug/L	100.0		70	32-119			
2,4-Dinitrophenol	69.5	10	ug/L	100.0		70	10-191			
2,4-Dinitrotoluene	108	10	ug/L	100.0		108	39-139			
2,6-Dinitrotoluene	109	10	ug/L	100.0		109	50-158			
2-Chloronaphthalene	116	10	ug/L	100.0		116	60-118			
2-Chlorophenol	62.6	10	ug/L	100.0		63	23-134			
2-Methylnaphthalene	73.6	10	ug/L	100.0		74	18-121			
2-Nitrophenol	65.4	10	ug/L	100.0		65	29-182			
3,3'-Dichlorobenzidine	109	10	ug/L	100.0		109	10-262			
3/4-Methylphenol	63.6	10	ug/L	100.0		64	76-107			L
4,6-Dinitro-2-methylphenol	93.1	10	ug/L	100.0		93	10-181			
4-Bromophenyl phenyl ether	96.0	10	ug/L	100.0		96	53-127			
4-Chloro-3-methylphenol	80.6	10	ug/L	100.0		81	22-147			
4-Chloroaniline	86.9	10	ug/L	100.0		87	44-163			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
4-Chlorophenyl phenyl ether	95.1	10	ug/L	100.0		95	25-158			
4-Nitrophenol	44.5	50	ug/L	100.0		45	10-132			J
Acenaphthene	91.5	10	ug/L	100.0		91	47-145			
Acenaphthylene	91.0	10	ug/L	100.0		91	33-145			
Anthracene	99.9	10	ug/L	100.0		100	27-133			
Benzidine	189	100	ug/L	100.0		189	15-150			LH
Benzo(a)anthracene	99.9	10	ug/L	100.0		100	33-143			
Benzo(a)pyrene	136	10	ug/L	100.0		136	17-163			
Benzo(b)fluoranthene	134	10	ug/L	100.0		134	24-159			
Benzo(g,h,i)perylene	135	10	ug/L	100.0		135	10-219			
Benzo(k)fluoranthene	134	10	ug/L	100.0		134	11-162			
Benzoic Acid	19.9	100	ug/L	100.0		20	10-125			J
Benzyl alcohol	55.4	10	ug/L	100.0		55	16-107			
bis(2-Chloroethoxy)methane	69.8	10	ug/L	100.0		70	33-184			
Bis(2-Chloroethyl)ether	69.2	10	ug/L	100.0		69	12-158			
Bis(2-chloroisopropyl)ether	63.5	10	ug/L	100.0		63	36-166			
Bis(2-Ethylhexyl)phthalate	102	10	ug/L	100.0		102	10-158			
Butyl benzyl phthalate	96.5	10	ug/L	100.0		96	10-152			
Chrysene	105	10	ug/L	100.0		105	17-168			
Dibenzo(a,h)anthracene	139	10	ug/L	100.0		139	10-227			
Dibenzofuran	90.5	10	ug/L	100.0		90	39-114			
Diethyl phthalate	86.7	10	ug/L	100.0		87	10-114			
Dimethyl phthalate	66.0	10	ug/L	100.0		66	10-112			
Di-n-butyl phthalate	96.6	10	ug/L	100.0		97	10-118			
Di-n-octyl phthalate	132	10	ug/L	100.0		132	10-146			
Fluoranthene	97.1	10	ug/L	100.0		97	26-137			
Fluorene	94.2	10	ug/L	100.0		94	59-121			
Hexachlorobenzene	102	10	ug/L	100.0		102	10-152			
Hexachlorobutadiene	66.0	10	ug/L	100.0		66	24-116			
Hexachlorocyclopentadiene	73.6	10	ug/L	100.0		74	32-117			
Hexachloroethane	63.0	10	ug/L	100.0		63	40-113			
Indeno(1,2,3-cd)pyrene	144	10	ug/L	100.0		144	10-171			
Isophorone	84.6	10	ug/L	100.0		85	21-196			
Naphthalene	67.1	10	ug/L	100.0		67	21-133			
Nitrobenzene	72.9	10	ug/L	100.0		73	35-180			
N-Nitrosodimethylamine	46.7	10	ug/L	100.0		47	10-119			
N-Nitroso-di-n-propylamine	74.4	10	ug/L	100.0		74	10-230			
N-Nitrosodiphenylamine	99.9	10	ug/L	100.0		100	69-152			
Pentachlorophenol	94.3	10	ug/L	100.0		94	14-176			
Phenanthrene	96.8	10	ug/L	100.0		97	54-120			
Phenol	34.9	10	ug/L	100.0		35	10-112			
Pyrene	99.3	10	ug/L	100.0		99	52-115			
Surrogate: 2,4,6-Tribromophenol	*92.3*		*ug/L*	*100.0*		*92*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*47.5*		*ug/L*	*50.00*		*95*	*49-118*			
Surrogate: 2-Fluorophenol	*46.8*		*ug/L*	*100.0*		*47*	*22-84*			
Surrogate: Nitrobenzene-d5	*37.3*		*ug/L*	*50.00*		*75*	*43-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Surrogate: Phenol-d5	*30.1*		*ug/L*	*100.0*		*30*	*10-63*			
Surrogate: Terphenyl-d14	*59.5*		*ug/L*	*50.00*		*119*	*49-151*			
LCS Dup (P5C0008-BSD1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	81.0	10	ug/L	100.0		81	44-142	17	20	
1,2-Dichlorobenzene	81.0	10	ug/L	100.0		81	32-129	17	20	
1,3-Dichlorobenzene	77.8	10	ug/L	100.0		78	20-124	19	20	
1,4-Dichlorobenzene	76.8	10	ug/L	100.0		77	20-124	17	20	
1-Methylnaphthalene	79.9	10	ug/L	100.0		80	40-135	9	20	
2,4,6-Trichlorophenol	88.7	10	ug/L	100.0		89	37-144	0.7	20	
2,4-Dichlorophenol	78.2	10	ug/L	100.0		78	39-135	11	20	
2,4-Dimethylphenol	76.3	10	ug/L	100.0		76	32-119	9	20	
2,4-Dinitrophenol	79.8	10	ug/L	100.0		80	10-191	14	20	
2,4-Dinitrotoluene	112	10	ug/L	100.0		112	39-139	3	20	
2,6-Dinitrotoluene	115	10	ug/L	100.0		115	50-158	5	20	
2-Chloronaphthalene	121	10	ug/L	100.0		121	60-118	4	20	L2
2-Chlorophenol	75.3	10	ug/L	100.0		75	23-134	18	20	
2-Methylnaphthalene	83.2	10	ug/L	100.0		83	18-121	12	20	
2-Nitrophenol	75.1	10	ug/L	100.0		75	29-182	14	20	
3,3'-Dichlorobenzidine	116	10	ug/L	100.0		116	10-262	7	20	
3/4-Methylphenol	73.4	10	ug/L	100.0		73	76-107	14	20	L
4,6-Dinitro-2-methylphenol	100	10	ug/L	100.0		100	10-181	7	20	
4-Bromophenyl phenyl ether	100	10	ug/L	100.0		100	53-127	5	20	
4-Chloro-3-methylphenol	83.1	10	ug/L	100.0		83	22-147	3	20	
4-Chloroaniline	95.7	10	ug/L	100.0		96	44-163	10	20	
4-Chlorophenyl phenyl ether	96.4	10	ug/L	100.0		96	25-158	1	20	
4-Nitrophenol	48.0	50	ug/L	100.0		48	10-132	7	20	J
Acenaphthene	94.9	10	ug/L	100.0		95	47-145	4	20	
Acenaphthylene	93.0	10	ug/L	100.0		93	33-145	2	20	
Anthracene	103	10	ug/L	100.0		103	27-133	3	20	
Benzidine	203	100	ug/L	100.0		203	15-150	7	20	LH
Benzo(a)anthracene	107	10	ug/L	100.0		107	33-143	7	20	
Benzo(a)pyrene	142	10	ug/L	100.0		142	17-163	5	20	
Benzo(b)fluoranthene	137	10	ug/L	100.0		137	24-159	2	20	
Benzo(g,h,i)perylene	140	10	ug/L	100.0		140	10-219	4	20	
Benzo(k)fluoranthene	143	10	ug/L	100.0		143	11-162	7	20	
Benzoic Acid	25.0	100	ug/L	100.0		25	10-125	23	20	D, J
Benzyl alcohol	68.1	10	ug/L	100.0		68	16-107	21	20	D
bis(2-Chloroethoxy)methane	80.6	10	ug/L	100.0		81	33-184	14	20	
Bis(2-Chloroethyl)ether	85.0	10	ug/L	100.0		85	12-158	21	20	D
Bis(2-chloroisopropyl)ether	75.8	10	ug/L	100.0		76	36-166	18	20	
Bis(2-Ethylhexyl)phthalate	105	10	ug/L	100.0		105	10-158	2	20	
Butyl benzyl phthalate	102	10	ug/L	100.0		102	10-152	6	20	
Chrysene	111	10	ug/L	100.0		111	17-168	6	20	
Dibenzo(a,h)anthracene	143	10	ug/L	100.0		143	10-227	3	20	
Dibenzofuran	91.3	10	ug/L	100.0		91	39-114	0.9	20	
Diethyl phthalate	89.3	10	ug/L	100.0		89	10-114	3	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS Dup (P5C0008-BSD1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Dimethyl phthalate	64.7	10	ug/L	100.0		65	10-112	2	20	
Di-n-butyl phthalate	101	10	ug/L	100.0		101	10-118	4	20	
Di-n-octyl phthalate	138	10	ug/L	100.0		138	10-146	4	20	
Fluoranthene	102	10	ug/L	100.0		102	26-137	5	20	
Fluorene	97.7	10	ug/L	100.0		98	59-121	4	20	
Hexachlorobenzene	107	10	ug/L	100.0		107	10-152	4	20	
Hexachlorobutadiene	79.2	10	ug/L	100.0		79	24-116	18	20	
Hexachlorocyclopentadiene	84.6	10	ug/L	100.0		85	32-117	14	20	
Hexachloroethane	75.0	10	ug/L	100.0		75	40-113	17	20	
Indeno(1,2,3-cd)pyrene	151	10	ug/L	100.0		151	10-171	4	20	
Isophorone	90.9	10	ug/L	100.0		91	21-196	7	20	
Naphthalene	79.3	10	ug/L	100.0		79	21-133	17	20	
Nitrobenzene	86.2	10	ug/L	100.0		86	35-180	17	20	
N-Nitrosodimethylamine	53.6	10	ug/L	100.0		54	10-119	14	20	
N-Nitroso-di-n-propylamine	87.6	10	ug/L	100.0		88	10-230	16	20	
N-Nitrosodiphenylamine	104	10	ug/L	100.0		104	69-152	4	20	
Pentachlorophenol	96.2	10	ug/L	100.0		96	14-176	2	20	
Phenanthrene	99.8	10	ug/L	100.0		100	54-120	3	20	
Phenol	42.0	10	ug/L	100.0		42	10-112	18	20	
Pyrene	105	10	ug/L	100.0		105	52-115	6	20	
Surrogate: 2,4,6-Tribromophenol	*93.6*		*ug/L*	*100.0*		*94*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*49.5*		*ug/L*	*50.00*		*99*	*49-118*			
Surrogate: 2-Fluorophenol	*53.9*		*ug/L*	*100.0*		*54*	*22-84*			
Surrogate: Nitrobenzene-d5	*44.2*		*ug/L*	*50.00*		*88*	*43-123*			
Surrogate: Phenol-d5	*36.0*		*ug/L*	*100.0*		*36*	*10-63*			
Surrogate: Terphenyl-d14	*60.8*		*ug/L*	*50.00*		*122*	*49-151*			
Matrix Spike (P5C0008-MS1)	**Source: 5020424-01**			Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	138	20	ug/L	200.0	BRL	69	44-142			
1,2-Dichlorobenzene	135	20	ug/L	200.0	BRL	67	32-129			
1,3-Dichlorobenzene	129	20	ug/L	200.0	BRL	65	20-124			
1,4-Dichlorobenzene	128	20	ug/L	200.0	BRL	64	20-124			
1-Methylnaphthalene	144	20	ug/L	200.0	BRL	72	40-135			
2,4,6-Trichlorophenol	151	20	ug/L	200.0	BRL	76	37-144			
2,4-Dichlorophenol	135	20	ug/L	200.0	BRL	67	39-135			
2,4-Dimethylphenol	106	20	ug/L	200.0	BRL	53	32-119			
2,4-Dinitrophenol	150	20	ug/L	200.0	BRL	75	10-191			
2,4-Dinitrotoluene	186	20	ug/L	200.0	BRL	93	39-139			
2,6-Dinitrotoluene	190	20	ug/L	200.0	BRL	95	50-158			
2-Chloronaphthalene	215	20	ug/L	200.0	BRL	107	60-118			
2-Chlorophenol	123	20	ug/L	200.0	BRL	61	23-134			
2-Methylnaphthalene	147	20	ug/L	200.0	BRL	73	18-121			
2-Nitrophenol	131	20	ug/L	200.0	BRL	65	29-182			
3,3'-Dichlorobenzidine	187	20	ug/L	200.0	BRL	93	10-262			
3/4-Methylphenol	131	20	ug/L	200.0	BRL	65	76-107			M
4,6-Dinitro-2-methylphenol	174	20	ug/L	200.0	BRL	87	10-181			
4-Bromophenyl phenyl ether	164	20	ug/L	200.0	BRL	82	53-127			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
Matrix Spike (P5C0008-MS1)	**Source: 5020424-01**			Prepared: 03/02/15 Analyzed: 03/04/15						
4-Chloro-3-methylphenol	146	20	ug/L	200.0	BRL	73	22-147			
4-Chloroaniline	172	20	ug/L	200.0	BRL	86	10-156			
4-Chlorophenyl phenyl ether	163	20	ug/L	200.0	BRL	82	25-158			
4-Nitrophenol	120	100	ug/L	200.0	BRL	60	10-132			
Acenaphthene	164	20	ug/L	200.0	BRL	82	47-145			
Acenaphthylene	163	20	ug/L	200.0	BRL	82	33-145			
Anthracene	171	20	ug/L	200.0	BRL	86	27-133			
Benzidine	343	200	ug/L	200.0	BRL	171	15-150			M
Benzo(a)anthracene	175	20	ug/L	200.0	BRL	87	33-143			
Benzo(a)pyrene	235	20	ug/L	200.0	BRL	117	17-163			
Benzo(b)fluoranthene	233	20	ug/L	200.0	BRL	117	24-159			
Benzo(g,h,i)perylene	232	20	ug/L	200.0	BRL	116	10-219			
Benzo(k)fluoranthene	231	20	ug/L	200.0	BRL	116	11-162			
Benzoic Acid	72.1	200	ug/L	200.0	BRL	36	10-125			J
Benzyl alcohol	125	20	ug/L	200.0	BRL	63	16-107			
bis(2-Chloroethoxy)methane	139	20	ug/L	200.0	BRL	70	33-184			
Bis(2-Chloroethyl)ether	130	20	ug/L	200.0	BRL	65	12-158			
Bis(2-chloroisopropyl)ether	125	20	ug/L	200.0	BRL	62	36-166			
Bis(2-Ethylhexyl)phthalate	168	20	ug/L	200.0	BRL	84	10-158			
Butyl benzyl phthalate	167	20	ug/L	200.0	BRL	84	10-152			
Chrysene	180	20	ug/L	200.0	BRL	90	17-168			
Dibenzo(a,h)anthracene	240	20	ug/L	200.0	BRL	120	10-227			
Dibenzofuran	159	20	ug/L	200.0	BRL	79	39-114			
Diethyl phthalate	154	20	ug/L	200.0	BRL	77	10-114			
Dimethyl phthalate	133	20	ug/L	200.0	BRL	66	10-112			
Di-n-butyl phthalate	165	20	ug/L	200.0	BRL	82	10-118			
Di-n-octyl phthalate	227	20	ug/L	200.0	BRL	113	10-146			
Fluoranthene	168	20	ug/L	200.0	BRL	84	26-137			
Fluorene	164	20	ug/L	200.0	BRL	82	59-121			
Hexachlorobenzene	174	20	ug/L	200.0	BRL	87	10-152			
Hexachlorobutadiene	132	20	ug/L	200.0	BRL	66	24-116			
Hexachlorocyclopentadiene	147	20	ug/L	200.0	BRL	74	26-122			
Hexachloroethane	125	20	ug/L	200.0	BRL	62	40-113			
Indeno(1,2,3-cd)pyrene	251	20	ug/L	200.0	BRL	125	10-171			
Isophorone	164	20	ug/L	200.0	BRL	82	21-196			
Naphthalene	137	20	ug/L	200.0	BRL	68	21-133			
Nitrobenzene	149	20	ug/L	200.0	BRL	74	35-180			
N-Nitrosodimethylamine	118	20	ug/L	200.0	BRL	59	10-119			
N-Nitroso-di-n-propylamine	149	20	ug/L	200.0	BRL	74	10-230			
N-Nitrosodiphenylamine	172	20	ug/L	200.0	BRL	86	57-156			
Pentachlorophenol	164	20	ug/L	200.0	BRL	82	14-176			
Phenanthrene	165	20	ug/L	200.0	BRL	83	54-120			
Phenol	101	20	ug/L	200.0	BRL	51	10-112			
Pyrene	172	20	ug/L	200.0	BRL	86	52-115			
Surrogate: 2,4,6-Tribromophenol	*151*		*ug/L*	*200.0*		*75*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*84.5*		*ug/L*	*100.0*		*84*	*49-118*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
Matrix Spike (P5C0008-MS1)	**Source: 5020424-01**			Prepared: 03/02/15 Analyzed: 03/04/15						
Surrogate: 2-Fluorophenol	*110*		*ug/L*	*200.0*		*55*	*22-84*			
Surrogate: Nitrobenzene-d5	*74.6*		*ug/L*	*100.0*		*75*	*43-123*			
Surrogate: Phenol-d5	*90.6*		*ug/L*	*200.0*		*45*	*10-63*			
Surrogate: Terphenyl-d14	*95.6*		*ug/L*	*100.0*		*96*	*49-151*			
Matrix Spike Dup (P5C0008-MSD1)	**Source: 5020424-01**			Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	126	20	ug/L	200.0	BRL	63	44-142	10	30	
1,2-Dichlorobenzene	125	20	ug/L	200.0	BRL	62	32-129	8	34	
1,3-Dichlorobenzene	121	20	ug/L	200.0	BRL	61	20-124	7	36	
1,4-Dichlorobenzene	120	20	ug/L	200.0	BRL	60	20-124	7	35	
1-Methylnaphthalene	131	20	ug/L	200.0	BRL	66	40-135	9	50	
2,4,6-Trichlorophenol	152	20	ug/L	200.0	BRL	76	37-144	0.7	30	
2,4-Dichlorophenol	123	20	ug/L	200.0	BRL	61	39-135	9	31	
2,4-Dimethylphenol	97.3	20	ug/L	200.0	BRL	49	32-119	9	36	
2,4-Dinitrophenol	155	20	ug/L	200.0	BRL	77	10-191	3	41	
2,4-Dinitrotoluene	201	20	ug/L	200.0	BRL	101	39-139	8	24	
2,6-Dinitrotoluene	198	20	ug/L	200.0	BRL	99	50-158	4	28	
2-Chloronaphthalene	177	20	ug/L	200.0	BRL	88	60-118	20	30	
2-Chlorophenol	113	20	ug/L	200.0	BRL	57	23-134	8	37	
2-Methylnaphthalene	131	20	ug/L	200.0	BRL	66	18-121	11	33	
2-Nitrophenol	116	20	ug/L	200.0	BRL	58	29-182	12	33	
3,3'-Dichlorobenzidine	205	20	ug/L	200.0	BRL	102	10-262	9	34	
3/4-Methylphenol	119	20	ug/L	200.0	BRL	59	76-107	10	30	M
4,6-Dinitro-2-methylphenol	185	20	ug/L	200.0	BRL	93	10-181	6	35	
4-Bromophenyl phenyl ether	177	20	ug/L	200.0	BRL	88	53-127	8	21	
4-Chloro-3-methylphenol	142	20	ug/L	200.0	BRL	71	22-147	3	25	
4-Chloroaniline	159	20	ug/L	200.0	BRL	80	10-156	8	38	
4-Chlorophenyl phenyl ether	173	20	ug/L	200.0	BRL	86	25-158	6	29	
4-Nitrophenol	127	100	ug/L	200.0	BRL	64	10-132	6	40	
Acenaphthene	164	20	ug/L	200.0	BRL	82	47-145	0.4	33	
Acenaphthylene	161	20	ug/L	200.0	BRL	80	33-145	1	30	
Anthracene	185	20	ug/L	200.0	BRL	93	27-133	8	27	
Benzidine	367	200	ug/L	200.0	BRL	183	15-150	7	50	M
Benzo(a)anthracene	189	20	ug/L	200.0	BRL	95	33-143	8	18	
Benzo(a)pyrene	249	20	ug/L	200.0	BRL	125	17-163	6	21	
Benzo(b)fluoranthene	249	20	ug/L	200.0	BRL	125	24-159	6	34	
Benzo(g,h,i)perylene	249	20	ug/L	200.0	BRL	125	10-219	7	27	
Benzo(k)fluoranthene	249	20	ug/L	200.0	BRL	124	11-162	7	39	
Benzoic Acid	50.8	200	ug/L	200.0	BRL	25	10-125	35	51	J
Benzyl alcohol	115	20	ug/L	200.0	BRL	58	16-107	8	37	
bis(2-Chloroethoxy)methane	126	20	ug/L	200.0	BRL	63	33-184	10	30	
Bis(2-Chloroethyl)ether	126	20	ug/L	200.0	BRL	63	12-158	3	33	
Bis(2-chloroisopropyl)ether	116	20	ug/L	200.0	BRL	58	36-166	7	34	
Bis(2-Ethylhexyl)phthalate	182	20	ug/L	200.0	BRL	91	10-158	8	21	
Butyl benzyl phthalate	179	20	ug/L	200.0	BRL	89	10-152	7	23	
Chrysene	196	20	ug/L	200.0	BRL	98	17-168	9	22	
Dibenzo(a,h)anthracene	249	20	ug/L	200.0	BRL	125	10-227	4	28	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
Matrix Spike Dup (P5C0008-MSD1)	**Source: 5020424-01**			Prepared: 03/02/15 Analyzed: 03/04/15						
Dibenzofuran	163	20	ug/L	200.0	BRL	81	39-114	2	23	
Diethyl phthalate	166	20	ug/L	200.0	BRL	83	10-114	8	22	
Dimethyl phthalate	141	20	ug/L	200.0	BRL	70	10-112	6	25	
Di-n-butyl phthalate	178	20	ug/L	200.0	BRL	89	10-118	8	24	
Di-n-octyl phthalate	243	20	ug/L	200.0	BRL	121	10-146	7	21	
Fluoranthene	181	20	ug/L	200.0	BRL	91	26-137	7	26	
Fluorene	175	20	ug/L	200.0	BRL	87	59-121	6	30	
Hexachlorobenzene	192	20	ug/L	200.0	BRL	96	10-152	10	29	
Hexachlorobutadiene	119	20	ug/L	200.0	BRL	60	24-116	10	35	
Hexachlorocyclopentadiene	130	20	ug/L	200.0	BRL	65	26-122	12	36	
Hexachloroethane	117	20	ug/L	200.0	BRL	59	40-113	6	37	
Indeno(1,2,3-cd)pyrene	267	20	ug/L	200.0	BRL	133	10-171	6	34	
Isophorone	152	20	ug/L	200.0	BRL	76	21-196	8	27	
Naphthalene	123	20	ug/L	200.0	BRL	61	21-133	11	35	
Nitrobenzene	136	20	ug/L	200.0	BRL	68	35-180	9	34	
N-Nitrosodimethylamine	114	20	ug/L	200.0	BRL	57	10-119	4	45	
N-Nitroso-di-n-propylamine	131	20	ug/L	200.0	BRL	66	10-230	13	33	
N-Nitrosodiphenylamine	188	20	ug/L	200.0	BRL	94	57-156	9	26	
Pentachlorophenol	176	20	ug/L	200.0	BRL	88	14-176	7	36	
Phenanthrene	180	20	ug/L	200.0	BRL	90	54-120	8	23	
Phenol	94.1	20	ug/L	200.0	BRL	47	10-112	7	43	
Pyrene	188	20	ug/L	200.0	BRL	94	52-115	9	31	
Surrogate: 2,4,6-Tribromophenol	*162*		*ug/L*	*200.0*		*81*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*80.0*		*ug/L*	*100.0*		*80*	*49-118*			
Surrogate: 2-Fluorophenol	*103*		*ug/L*	*200.0*		*52*	*22-84*			
Surrogate: Nitrobenzene-d5	*69.7*		*ug/L*	*100.0*		*70*	*43-123*			
Surrogate: Phenol-d5	*84.7*		*ug/L*	*200.0*		*42*	*10-63*			
Surrogate: Terphenyl-d14	*104*		*ug/L*	*100.0*		*104*	*49-151*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0473 - MADEP VPH (W)										
Blank (P5B0473-BLK1)				Prepared & Analyzed: 02/25/15						
C5-C8 Aliphatics	BRL	50	ug/L							
C9-C12 Aliphatics	BRL	50	ug/L							
C9-C10 Aromatics	BRL	50	ug/L							
Surrogate: 2,5-Dibromotoluene (PID)	*93.3*		*ug/L*	*100.0*		*93*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*95.1*		*ug/L*	*100.0*		*95*	*70-130*			
LCS (P5B0473-BS1)				Prepared & Analyzed: 02/25/15						
C5-C8 Aliphatics	325	50	ug/L	300.0		108	70-130			
C9-C10 Aromatics	103	50	ug/L	100.0		103	70-130			
C9-C12 Aliphatic	348	50	ug/L	300.0		116	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*103*		*ug/L*	*100.0*		*103*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*103*		*ug/L*	*100.0*		*103*	*70-130*			
LCS Dup (P5B0473-BSD1)				Prepared & Analyzed: 02/25/15						
C5-C8 Aliphatics	317	50	ug/L	300.0		106	70-130	2	50	
C9-C10 Aromatics	100	50	ug/L	100.0		100	70-130	3	50	
C9-C12 Aliphatic	346	50	ug/L	300.0		115	70-130	0.5	50	
Surrogate: 2,5-Dibromotoluene (PID)	*97.9*		*ug/L*	*100.0*		*98*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*98.7*		*ug/L*	*100.0*		*99*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0466 - MADEP EPH (W)										
Blank (P5B0466-BLK1)				Prepared: 02/25/15 Analyzed: 02/26/15						
C9-C18 Aliphatics	BRL	100	ug/L							
C19-C36 Aliphatics	BRL	100	ug/L							
C11-C22 Aromatics	BRL	100	ug/L							
Surrogate: 1-Chlorooctadecane	*15.7*		*ug/L*	*20.00*		*78*	*40-140*			
Surrogate: o-Terphenyl	*15.4*		*ug/L*	*20.00*		*77*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*32.0*		*ug/L*	*40.00*		*80*	*40-140*			
Surrogate: 2-Bromonaphthalene	*28.8*		*ug/L*	*40.00*		*72*	*40-140*			
LCS (P5B0466-BS1)				Prepared: 02/25/15 Analyzed: 02/26/15						
C9-C18 Aliphatics	420	100	ug/L	600.0		70	40-140			
C19-C36 Aliphatics	744	100	ug/L	800.0		93	40-140			
C11-C22 Aromatics	1480	100	ug/L	1700		87	40-140			
Surrogate: 1-Chlorooctadecane	*20.8*		*ug/L*	*20.00*		*104*	*40-140*			
Surrogate: o-Terphenyl	*19.3*		*ug/L*	*20.00*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*36.6*		*ug/L*	*40.00*		*91*	*40-140*			
Surrogate: 2-Bromonaphthalene	*26.1*		*ug/L*	*40.00*		*65*	*40-140*			
LCS Dup (P5B0466-BSD1)				Prepared: 02/25/15 Analyzed: 02/26/15						
C9-C18 Aliphatics	374	100	ug/L	600.0		62	40-140	12	50	
C19-C36 Aliphatics	734	100	ug/L	800.0		92	40-140	1	50	
C11-C22 Aromatics	1470	100	ug/L	1700		86	40-140	1	50	
Surrogate: 1-Chlorooctadecane	*17.4*		*ug/L*	*20.00*		*87*	*40-140*			
Surrogate: o-Terphenyl	*18.6*		*ug/L*	*20.00*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*41.2*		*ug/L*	*40.00*		*103*	*40-140*			
Surrogate: 2-Bromonaphthalene	*42.0*		*ug/L*	*40.00*		*105*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020424
Time Submitted: 2/24/2015 12:34:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0457 - 3010A										
Blank (P5B0457-BLK1)				Prepared & Analyzed: 02/25/15						
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
LCS (P5B0457-BS1)				Prepared & Analyzed: 02/25/15						
Chromium	0.261	0.0050	mg/L	0.2500		104	80-120			
Lead	0.261	0.0050	mg/L	0.2500		104	80-120			

Sample Extraction Data

Prep Method: MADEP EPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5020424-01	P5B0466	1000 mL	2 mL	02/26/15 8:30
5020424-02	P5B0466	1000 mL	2 mL	02/26/15 8:30
5020424-03	P5B0466	1000 mL	2 mL	02/26/15 8:30
5020424-04	P5B0466	1000 mL	2 mL	02/26/15 8:30
5020424-07	P5B0466	1000 mL	2 mL	02/26/15 8:30

Prep Method: 625

Lab Number	Batch	Initial	Final	Date/Time
5020424-01	P5C0008	1000 mL	1 mL	03/02/15 9:55
5020424-02	P5C0008	1000 mL	1 mL	03/02/15 9:55
5020424-03	P5C0008	1000 mL	1 mL	03/02/15 9:55
5020424-04	P5C0008	1000 mL	1 mL	03/02/15 9:55
5020424-07	P5C0008	1000 mL	1 mL	03/02/15 9:55

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
5020424-01	P5B0457	50 mL	50 mL	02/25/15 8:00
5020424-02	P5B0457	50 mL	50 mL	02/25/15 8:00
5020424-03	P5B0457	50 mL	50 mL	02/25/15 8:00
5020424-05	P5B0457	50 mL	50 mL	02/25/15 8:00
5020424-07	P5B0457	50 mL	50 mL	02/25/15 8:00
5020424-07	P5B0457	50 mL	50 mL	02/25/15 8:00

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
5020424-04	P5B0487	10 mL	10 mL	02/24/15 9:38
5020424-08	P5B0487	10 mL	10 mL	02/24/15 12:38

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
5020424-01	P5B0487	10 mL	10 mL	02/24/15 9:38
5020424-02	P5B0487	10 mL	10 mL	02/24/15 9:38
5020424-02	P5B0487	10 mL	10 mL	02/24/15 9:38
5020424-03	P5B0487	10 mL	10 mL	02/24/15 9:38
5020424-05	P5B0487	10 mL	10 mL	02/24/15 9:38
5020424-06	P5B0487	10 mL	10 mL	02/24/15 9:38
5020424-07	P5B0487	10 mL	10 mL	02/24/15 12:38
5020424-07	P5B0487	10 mL	10 mL	02/24/15 12:38
5020424-09	P5B0487	10 mL	10 mL	02/24/15 12:38

Prep Method: MADEP VPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5020424-01	P5B0473	44 mL	44 mL	02/25/15 12:37
5020424-02	P5B0473	44 mL	44 mL	02/25/15 12:37
5020424-03	P5B0473	44 mL	44 mL	02/25/15 12:37
5020424-04	P5B0473	44 mL	44 mL	02/25/15 12:37
5020424-05	P5B0473	44 mL	44 mL	02/25/15 12:37
5020424-07	P5B0473	44 mL	44 mL	02/25/15 12:37

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: ____

Client Company Name: AECOM
Report To/Contact Name: James McDorman
Reporting Address: 6000 Fairview Road, Suite 200 Charlotte, NC 28210
Phone: 704 522 0330 Fax (Yes) (No): ____
Email Address: jim.mcdorman@aecom.com
EDD Type: PDF ___ Excel ___ Other ____
Site Location Name: Rental Car Facilities
Site Location Physical Address: ____

Project Name: Charlotte Airport Rental Car Sites
Short Hold Analysis: (Yes) (No) — (No) circled
UST Project: (Yes) (NO) — (Yes) circled
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Michelle Friedman
Address: 5985 Carnegie Blvd, Suite 300 Charlotte, NC 28209
Purchase Order No./Billing Reference ____
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: 7KT-10 Observed: 3.4 °C / Corr: 2.0 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ DoD ___ FL ___ NC X
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO X
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	VOCs 6200B	VOC+xylenes 602	SVOCs 10 PAHs 625	Low BP VPH	Med/High BP VPH	EPH	Lead	REMARKS	PRISM LAB ID NO.
Payless TMW-1	2/23/15	1000	Water	VOA/A/P	12/4/1	—	HCl/None HCl/HNO3	X	NA*	X	X	X	X	X	2 sets of VPH	01
Payless TMW-2	2/23/15	1130	|	|	|	—	|	X	NA*	X	X	X	X	X	Low Boiling point F and	02
Payless TMW-3	2/23/15	1400	|	|	|	—	|	X	NA*	X	X	X	X	X	Medium to High Boiling	03
Payless MW-1	2/23/15	1515	|	VOA/A	6/4	—	HCl/None HCl		X	X		X	X		Point Fuels	04
Payless TMW-4	2/23/15	1605	|	VOA/P	6/1	—	HCl/HNO3	X			X			X		05
DUP-2	2/23/15	0800	|	VOA	3	—	HCl	X								06
Hertz TMW-1	2/24/15	1030	Water	VOA/A/P	6/4/1	—	HCl/None HCl/HNO3	X		X	X		X	X		07
Trip Blank	2/23/15								X							08
|	2/24/15							X								09

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature [signature] Sampled By (Print Name) Matthew Stone Affiliation AECOM

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	2/24/15	12:14
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
[signature]	[signature]	2/24/15	12:34

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
COC Group No. 50 20424

☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other ____

Additional Comments:
* NA - Not Needed - Run 6200 Full List Per Jim McDorman
MAQ 2/25/15

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☒ NC ☐ SC	☐ NC ☐ SC	☒ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/06/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/25/2015
Prism Work Order: 5020436

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones
President/Project Manager

Reviewed By Robbi A. Jones
President/Project Manager

Data Qualifiers Key Reference:

A	Low LCS/LCSD recovery but CCV within QC limit. Analyte not detected in samples down to MDL.
D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L	Parameter reported with possible low bias. LCS recovery below the QC limit.
L1	LCS recovery outside of the QC limits. LCSD recovery within the limits. No further action taken.
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
SE	Surrogate recovery outside the QC limits due to emulsion.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

03/06/2015

Prism Work Order: 5020436

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Hertz MW-5R	5020436-01	Water	02/24/15	02/25/15
Hertz MW-11	5020436-02	Water	02/24/15	02/25/15

Samples were received in good condition at 0.6 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/06/2015

Prism Work Order: 5020436

Prism ID	Client ID	Parameter	Method	Result		Units
5020436-01	Hertz MW-5R	Unknown (1)	625	12		ug/L
5020436-01	Hertz MW-5R	Unknown (2)	625	30		ug/L
5020436-01	Hertz MW-5R	C5-C8 Aliphatics	MADEP VPH	15	J	ug/L
5020436-01	Hertz MW-5R	C9-C12 Aliphatics	MADEP VPH	16	J	ug/L
5020436-01	Hertz MW-5R	C9-C10 Aromatics	MADEP VPH	10	J	ug/L
5020436-02	Hertz MW-11	C19-C36 Aliphatics	MADEP EPH	23	J	ug/L
5020436-02	Hertz MW-11	Isopropyl Ether	SM6200 B	6.5		ug/L
5020436-02	Hertz MW-11	Methyl-tert-Butyl Ether	SM6200 B	30		ug/L
5020436-02	Hertz MW-11	tert-Amyl Methyl Ether	SM6200 B	4.1	J	ug/L
5020436-02	Hertz MW-11	C5-C8 Aliphatics	MADEP VPH	46	J	ug/L
5020436-02	Hertz MW-11	C9-C12 Aliphatics	MADEP VPH	16	J	ug/L
5020436-02	Hertz MW-11	C9-C10 Aromatics	MADEP VPH	1.5	J	ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz MW-5R
Prism Sample ID: 5020436-01
Prism Work Order: 5020436
Time Collected: 02/24/15 12:35
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/5/15 16:20	KC	P5B0466
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/5/15 16:20	KC	P5B0466
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/5/15 16:20	KC	P5B0466

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*80 %*	*40-140*
o-Terphenyl	*85 %*	*40-140*
2-Fluorobiphenyl	*94 %*	*40-140*
2-Bromonaphthalene	*71 %*	*40-140*

Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
1,2-Dichlorobenzene	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
1,3-Dichlorobenzene	BRL	ug/L	11	1.8	1	625	3/4/15 20:40	KC	P5C0008
1,4-Dichlorobenzene	BRL	ug/L	11	1.8	1	625	3/4/15 20:40	KC	P5C0008
1-Methylnaphthalene	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
2,4,6-Trichlorophenol	BRL	ug/L	11	1.6	1	625	3/4/15 20:40	KC	P5C0008
2,4-Dichlorophenol	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
2,4-Dimethylphenol	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
2,4-Dinitrophenol	BRL	ug/L	11	0.57	1	625	3/4/15 20:40	KC	P5C0008
2,4-Dinitrotoluene	BRL	ug/L	11	1.5	1	625	3/4/15 20:40	KC	P5C0008
2,6-Dinitrotoluene	BRL	ug/L	11	1.4	1	625	3/4/15 20:40	KC	P5C0008
2-Chloronaphthalene	BRL	ug/L	11	1.9	1	625	3/4/15 20:40	KC	P5C0008
2-Chlorophenol	BRL	ug/L	11	1.5	1	625	3/4/15 20:40	KC	P5C0008
2-Methylnaphthalene	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
2-Nitrophenol	BRL	ug/L	11	1.6	1	625	3/4/15 20:40	KC	P5C0008
3,3'-Dichlorobenzidine	BRL	ug/L	11	1.6	1	625	3/4/15 20:40	KC	P5C0008
3/4-Methylphenol	BRL	ug/L	11	1.2	1	625	3/4/15 20:40	KC	P5C0008
4,6-Dinitro-2-methylphenol	BRL	ug/L	11	1.3	1	625	3/4/15 20:40	KC	P5C0008
4-Bromophenyl phenyl ether	BRL	ug/L	11	1.4	1	625	3/4/15 20:40	KC	P5C0008
4-Chloro-3-methylphenol	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
4-Chloroaniline	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
4-Chlorophenyl phenyl ether	BRL	ug/L	11	1.3	1	625	3/4/15 20:40	KC	P5C0008
4-Nitrophenol	BRL	ug/L	53	1.1	1	625	3/4/15 20:40	KC	P5C0008
Acenaphthene	BRL	ug/L	11	1.8	1	625	3/4/15 20:40	KC	P5C0008
Acenaphthylene	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
Anthracene	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
Benzidine	BRL	ug/L	110	3.1	1	625	3/4/15 20:40	KC	P5C0008
Benzo(a)anthracene	BRL	ug/L	11	1.5	1	625	3/4/15 20:40	KC	P5C0008
Benzo(a)pyrene	BRL	ug/L	11	1.8	1	625	3/4/15 20:40	KC	P5C0008
Benzo(b)fluoranthene	BRL	ug/L	11	1.8	1	625	3/4/15 20:40	KC	P5C0008
Benzo(g,h,i)perylene	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
Benzo(k)fluoranthene	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
Benzoic Acid	BRL	ug/L	110	1.1	1	625	3/4/15 20:40	KC	P5C0008

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz MW-5R
Prism Sample ID: 5020436-01
Prism Work Order: 5020436
Time Collected: 02/24/15 12:35
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	11	1.2	1	625	3/4/15 20:40	KC	P5C0008
bis(2-Chloroethoxy)methane	BRL	ug/L	11	1.3	1	625	3/4/15 20:40	KC	P5C0008
Bis(2-Chloroethyl)ether	BRL	ug/L	11	1.8	1	625	3/4/15 20:40	KC	P5C0008
Bis(2-chloroisopropyl)ether	BRL	ug/L	11	1.3	1	625	3/4/15 20:40	KC	P5C0008
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
Butyl benzyl phthalate	BRL	ug/L	11	1.5	1	625	3/4/15 20:40	KC	P5C0008
Chrysene	BRL	ug/L	11	1.5	1	625	3/4/15 20:40	KC	P5C0008
Dibenzo(a,h)anthracene	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
Dibenzofuran	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
Diethyl phthalate	BRL	ug/L	11	1.0	1	625	3/4/15 20:40	KC	P5C0008
Dimethyl phthalate	BRL	ug/L	11	1.5	1	625	3/4/15 20:40	KC	P5C0008
Di-n-butyl phthalate	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
Di-n-octyl phthalate	BRL	ug/L	11	1.9	1	625	3/4/15 20:40	KC	P5C0008
Fluoranthene	BRL	ug/L	11	1.5	1	625	3/4/15 20:40	KC	P5C0008
Fluorene	BRL	ug/L	11	1.6	1	625	3/4/15 20:40	KC	P5C0008
Hexachlorobenzene	BRL	ug/L	11	1.3	1	625	3/4/15 20:40	KC	P5C0008
Hexachlorobutadiene	BRL	ug/L	11	2.1	1	625	3/4/15 20:40	KC	P5C0008
Hexachlorocyclopentadiene	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
Hexachloroethane	BRL	ug/L	11	2.1	1	625	3/4/15 20:40	KC	P5C0008
Indeno(1,2,3-cd)pyrene	BRL	ug/L	11	2.3	1	625	3/4/15 20:40	KC	P5C0008
Isophorone	BRL	ug/L	11	1.6	1	625	3/4/15 20:40	KC	P5C0008
Naphthalene	BRL	ug/L	11	1.7	1	625	3/4/15 20:40	KC	P5C0008
Nitrobenzene	BRL	ug/L	11	1.5	1	625	3/4/15 20:40	KC	P5C0008
N-Nitrosodimethylamine	BRL	ug/L	11	1.0	1	625	3/4/15 20:40	KC	P5C0008
N-Nitroso-di-n-propylamine	BRL	ug/L	11	1.2	1	625	3/4/15 20:40	KC	P5C0008
N-Nitrosodiphenylamine	BRL	ug/L	11	1.5	1	625	3/4/15 20:40	KC	P5C0008
Pentachlorophenol	BRL	ug/L	11	1.6	1	625	3/4/15 20:40	KC	P5C0008
Phenanthrene	BRL	ug/L	11	1.5	1	625	3/4/15 20:40	KC	P5C0008
Phenol	BRL	ug/L	11	0.95	1	625	3/4/15 20:40	KC	P5C0008
Pyrene	BRL	ug/L	11	1.6	1	625	3/4/15 20:40	KC	P5C0008
TIC: Unknown (1)	**12**	**ug/L**			**1**	**625**	**3/4/15 20:40**	**KC**	**P5C0008**
TIC: Unknown (2)	**30**	**ug/L**			**1**	**625**	**3/4/15 20:40**	**KC**	**P5C0008**

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*7 %*	*31-144*	*SE*
2-Fluorobiphenyl	*71 %*	*49-118*	
2-Fluorophenol	*2 %*	*22-84*	*SE*
Nitrobenzene-d5	*82 %*	*43-123*	
Phenol-d5	*0.9 %*	*10-63*	*SE*
Terphenyl-d14	*99 %*	*49-151*	

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/27/15 13:37	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz MW-5R
Prism Sample ID: 5020436-01
Prism Work Order: 5020436
Time Collected: 02/24/15 12:35
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 13:37	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz MW-5R
Prism Sample ID: 5020436-01
Prism Work Order: 5020436
Time Collected: 02/24/15 12:35
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/27/15 13:37	VHL	P5C0010
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/27/15 13:37	VHL	P5C0010

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*105 %*	*70-130*
Dibromofluoromethane	*104 %*	*70-130*
Toluene-d8	*99 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**15 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**2/25/15 21:51**	**ANG**	**P5B0473**
C9-C12 Aliphatics	**16 J**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**2/25/15 21:51**	**ANG**	**P5B0473**
C9-C10 Aromatics	**10 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**2/25/15 21:51**	**ANG**	**P5B0473**

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*101 %*	*70-130*
2,5-Dibromotoluene (FID)	*102 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz MW-11
Prism Sample ID: 5020436-02
Prism Work Order: 5020436
Time Collected: 02/24/15 14:35
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/5/15 16:56	KC	P5B0466
C19-C36 Aliphatics	**23 J**	**ug/L**	**100**	**11**	**1**	**MADEP EPH**	**3/5/15 16:56**	**KC**	**P5B0466**
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/5/15 16:56	KC	P5B0466

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*74 %*	*40-140*
o-Terphenyl	*79 %*	*40-140*
2-Fluorobiphenyl	*93 %*	*40-140*
2-Bromonaphthalene	*83 %*	*40-140*

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
1,2-Dichlorobenzene	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
1,3-Dichlorobenzene	BRL	ug/L	11	1.9	1	625	3/4/15 21:01	KC	P5C0008
1,4-Dichlorobenzene	BRL	ug/L	11	1.9	1	625	3/4/15 21:01	KC	P5C0008
1-Methylnaphthalene	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
2,4,6-Trichlorophenol	BRL	ug/L	11	1.7	1	625	3/4/15 21:01	KC	P5C0008
2,4-Dichlorophenol	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
2,4-Dimethylphenol	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
2,4-Dinitrophenol	BRL	ug/L	11	0.60	1	625	3/4/15 21:01	KC	P5C0008
2,4-Dinitrotoluene	BRL	ug/L	11	1.6	1	625	3/4/15 21:01	KC	P5C0008
2,6-Dinitrotoluene	BRL	ug/L	11	1.5	1	625	3/4/15 21:01	KC	P5C0008
2-Chloronaphthalene	BRL	ug/L	11	2.0	1	625	3/4/15 21:01	KC	P5C0008
2-Chlorophenol	BRL	ug/L	11	1.6	1	625	3/4/15 21:01	KC	P5C0008
2-Methylnaphthalene	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
2-Nitrophenol	BRL	ug/L	11	1.7	1	625	3/4/15 21:01	KC	P5C0008
3,3'-Dichlorobenzidine	BRL	ug/L	11	1.7	1	625	3/4/15 21:01	KC	P5C0008
3/4-Methylphenol	BRL	ug/L	11	1.3	1	625	3/4/15 21:01	KC	P5C0008
4,6-Dinitro-2-methylphenol	BRL	ug/L	11	1.4	1	625	3/4/15 21:01	KC	P5C0008
4-Bromophenyl phenyl ether	BRL	ug/L	11	1.5	1	625	3/4/15 21:01	KC	P5C0008
4-Chloro-3-methylphenol	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
4-Chloroaniline	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
4-Chlorophenyl phenyl ether	BRL	ug/L	11	1.4	1	625	3/4/15 21:01	KC	P5C0008
4-Nitrophenol	BRL	ug/L	56	1.2	1	625	3/4/15 21:01	KC	P5C0008
Acenaphthene	BRL	ug/L	11	1.9	1	625	3/4/15 21:01	KC	P5C0008
Acenaphthylene	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
Anthracene	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
Benzidine	BRL	ug/L	110	3.3	1	625	3/4/15 21:01	KC	P5C0008
Benzo(a)anthracene	BRL	ug/L	11	1.6	1	625	3/4/15 21:01	KC	P5C0008
Benzo(a)pyrene	BRL	ug/L	11	1.9	1	625	3/4/15 21:01	KC	P5C0008
Benzo(b)fluoranthene	BRL	ug/L	11	1.9	1	625	3/4/15 21:01	KC	P5C0008
Benzo(g,h,i)perylene	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
Benzo(k)fluoranthene	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
Benzoic Acid	BRL	ug/L	110	1.1	1	625	3/4/15 21:01	KC	P5C0008

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz MW-11
Prism Sample ID: 5020436-02
Prism Work Order: 5020436
Time Collected: 02/24/15 14:35
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	11	1.3	1	625	3/4/15 21:01	KC	P5C0008
bis(2-Chloroethoxy)methane	BRL	ug/L	11	1.4	1	625	3/4/15 21:01	KC	P5C0008
Bis(2-Chloroethyl)ether	BRL	ug/L	11	1.9	1	625	3/4/15 21:01	KC	P5C0008
Bis(2-chloroisopropyl)ether	BRL	ug/L	11	1.4	1	625	3/4/15 21:01	KC	P5C0008
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
Butyl benzyl phthalate	BRL	ug/L	11	1.5	1	625	3/4/15 21:01	KC	P5C0008
Chrysene	BRL	ug/L	11	1.6	1	625	3/4/15 21:01	KC	P5C0008
Dibenzo(a,h)anthracene	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
Dibenzofuran	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
Diethyl phthalate	BRL	ug/L	11	1.1	1	625	3/4/15 21:01	KC	P5C0008
Dimethyl phthalate	BRL	ug/L	11	1.6	1	625	3/4/15 21:01	KC	P5C0008
Di-n-butyl phthalate	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
Di-n-octyl phthalate	BRL	ug/L	11	2.0	1	625	3/4/15 21:01	KC	P5C0008
Fluoranthene	BRL	ug/L	11	1.6	1	625	3/4/15 21:01	KC	P5C0008
Fluorene	BRL	ug/L	11	1.6	1	625	3/4/15 21:01	KC	P5C0008
Hexachlorobenzene	BRL	ug/L	11	1.3	1	625	3/4/15 21:01	KC	P5C0008
Hexachlorobutadiene	BRL	ug/L	11	2.2	1	625	3/4/15 21:01	KC	P5C0008
Hexachlorocyclopentadiene	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
Hexachloroethane	BRL	ug/L	11	2.2	1	625	3/4/15 21:01	KC	P5C0008
Indeno(1,2,3-cd)pyrene	BRL	ug/L	11	2.4	1	625	3/4/15 21:01	KC	P5C0008
Isophorone	BRL	ug/L	11	1.6	1	625	3/4/15 21:01	KC	P5C0008
Naphthalene	BRL	ug/L	11	1.8	1	625	3/4/15 21:01	KC	P5C0008
Nitrobenzene	BRL	ug/L	11	1.5	1	625	3/4/15 21:01	KC	P5C0008
N-Nitrosodimethylamine	BRL	ug/L	11	1.1	1	625	3/4/15 21:01	KC	P5C0008
N-Nitroso-di-n-propylamine	BRL	ug/L	11	1.3	1	625	3/4/15 21:01	KC	P5C0008
N-Nitrosodiphenylamine	BRL	ug/L	11	1.6	1	625	3/4/15 21:01	KC	P5C0008
Pentachlorophenol	BRL	ug/L	11	1.7	1	625	3/4/15 21:01	KC	P5C0008
Phenanthrene	BRL	ug/L	11	1.5	1	625	3/4/15 21:01	KC	P5C0008
Phenol	BRL	ug/L	11	1.0	1	625	3/4/15 21:01	KC	P5C0008
Pyrene	BRL	ug/L	11	1.7	1	625	3/4/15 21:01	KC	P5C0008
TIC: Tentatively Identified Compounds	Not Detected	ug/L			1	625	3/4/15 21:01	KC	P5C0008

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*39 %*	*31-144*
2-Fluorobiphenyl	*65 %*	*49-118*
2-Fluorophenol	*33 %*	*22-84*
Nitrobenzene-d5	*73 %*	*43-123*
Phenol-d5	*24 %*	*10-63*
Terphenyl-d14	*96 %*	*49-151*

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/27/15 14:12	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz MW-11
Prism Sample ID: 5020436-02
Prism Work Order: 5020436
Time Collected: 02/24/15 14:35
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Isopropyl Ether	**6.5**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**2/27/15 14:12**	**VHL**	**P5C0010**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 14:12	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz MW-11
Prism Sample ID: 5020436-02
Prism Work Order: 5020436
Time Collected: 02/24/15 14:35
Time Submitted: 02/25/15 08:25

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Methyl-tert-Butyl Ether	**30**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/27/15 14:12**	**VHL**	**P5C0010**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
tert-Amyl Methyl Ether	**4.1 J**	**ug/L**	**10**	**0.10**	**1**	**SM6200 B**	**2/27/15 14:12**	**VHL**	**P5C0010**
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/27/15 14:12	VHL	P5C0010
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/27/15 14:12	VHL	P5C0010

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*70-130*
Dibromofluoromethane	*102 %*	*70-130*
Toluene-d8	*101 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**46 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**2/25/15 23:29**	**ANG**	**P5B0473**
C9-C12 Aliphatics	**16 J**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**2/25/15 23:29**	**ANG**	**P5B0473**
C9-C10 Aromatics	**1.5 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**2/25/15 23:29**	**ANG**	**P5B0473**

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*91 %*	*70-130*
2,5-Dibromotoluene (FID)	*92 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
Blank (P5C0010-BLK1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	0.50	ug/L							
1,2,4-Trichlorobenzene	BRL	0.50	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	10	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	0.50	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethanol	BRL	200	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
Blank (P5C0010-BLK1)				Prepared & Analyzed: 02/27/15						
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	1.0	ug/L							
Methylene Chloride	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	1.0	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	0.50	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Amyl Alcohol	BRL	10	ug/L							
tert-Amyl Methyl Ether	BRL	10	ug/L							
tert-Butyl Alcohol	BRL	10	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
tert-Butyl Ethyl Ether	BRL	10	ug/L							
tert-Butyl Formate	BRL	10	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	5.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*26.1*		*ug/L*	*25.00*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*26.9*		*ug/L*	*25.00*		*108*	*70-130*			
Surrogate: Toluene-d8	*25.0*		*ug/L*	*25.00*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
LCS (P5C0010-BS1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	19.7	0.50	ug/L	20.00		98	70-130			
1,1,1-Trichloroethane	21.1	0.50	ug/L	20.00		105	70-130			
1,1,2,2-Tetrachloroethane	18.4	0.50	ug/L	20.00		92	70-130			
1,1,2-Trichloroethane	19.8	0.50	ug/L	20.00		99	70-130			
1,1-Dichloroethane	19.0	0.50	ug/L	20.00		95	70-130			
1,1-Dichloroethylene	21.1	0.50	ug/L	20.00		105	70-130			
1,1-Dichloropropylene	22.3	0.50	ug/L	20.00		112	70-130			
1,2,3-Trichlorobenzene	20.7	0.50	ug/L	20.00		103	70-130			
1,2,3-Trichloropropane	18.1	0.50	ug/L	20.00		90	70-130			
1,2,4-Trichlorobenzene	21.6	0.50	ug/L	20.00		108	70-130			
1,2,4-Trimethylbenzene	21.5	0.50	ug/L	20.00		108	70-130			
1,2-Dibromo-3-chloropropane	20.1	2.0	ug/L	20.00		100	70-130			
1,2-Dibromoethane	21.1	0.50	ug/L	20.00		106	70-130			
1,2-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	70-130			
1,2-Dichloroethane	20.3	0.50	ug/L	20.00		102	70-130			
1,2-Dichloropropane	19.3	0.50	ug/L	20.00		97	70-130			
1,3,5-Trimethylbenzene	22.1	0.50	ug/L	20.00		110	70-130			
1,3-Dichlorobenzene	20.7	0.50	ug/L	20.00		103	70-130			
1,3-Dichloropropane	19.2	0.50	ug/L	20.00		96	70-130			
1,4-Dichlorobenzene	20.2	0.50	ug/L	20.00		101	70-130			
2,2-Dichloropropane	21.4	2.0	ug/L	20.00		107	70-130			
2-Chlorotoluene	20.8	0.50	ug/L	20.00		104	70-130			
4-Chlorotoluene	20.3	0.50	ug/L	20.00		101	70-130			
4-Isopropyltoluene	21.9	0.50	ug/L	20.00		110	70-130			
Acetone	42.5	10	ug/L	40.00		106	40-160			
Benzene	21.2	0.50	ug/L	20.00		106	70-130			
Bromobenzene	19.2	0.50	ug/L	20.00		96	70-130			
Bromochloromethane	21.3	0.50	ug/L	20.00		107	70-130			
Bromodichloromethane	18.5	0.50	ug/L	20.00		93	70-130			
Bromoform	18.5	0.50	ug/L	20.00		92	70-130			
Bromomethane	16.6	1.0	ug/L	20.00		83	60-140			
Carbon Tetrachloride	19.7	0.50	ug/L	20.00		98	70-130			
Chlorobenzene	20.3	0.50	ug/L	20.00		102	70-130			
Chloroethane	18.7	0.50	ug/L	20.00		94	60-140			
Chloroform	18.4	0.50	ug/L	20.00		92	70-130			
Chloromethane	15.6	0.50	ug/L	20.00		78	60-140			
cis-1,2-Dichloroethylene	19.7	0.50	ug/L	20.00		99	70-130			
cis-1,3-Dichloropropylene	20.4	0.50	ug/L	20.00		102	70-130			
Dibromochloromethane	18.4	0.50	ug/L	20.00		92	70-130			
Dibromomethane	18.6	0.50	ug/L	20.00		93	70-130			
Dichlorodifluoromethane	11.5	1.0	ug/L	20.00		57	60-140			A
Ethanol	530	200	ug/L	500.0		106	60-140			
Ethylbenzene	20.9	0.50	ug/L	20.00		104	70-130			
Hexachlorobutadiene	22.1	2.0	ug/L	20.00		110	70-130			
Isopropyl Ether	17.4	0.50	ug/L	20.00		87	70-130			
Isopropylbenzene (Cumene)	23.0	0.50	ug/L	20.00		115	70-130			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
LCS (P5C0010-BS1)				Prepared & Analyzed: 02/27/15						
m,p-Xylenes	42.7	1.0	ug/L	40.00		107	70-130			
Methyl Butyl Ketone (2-Hexanone)	20.6	1.0	ug/L	20.00		103	60-140			
Methyl Ethyl Ketone (2-Butanone)	20.6	5.0	ug/L	20.00		103	60-140			
Methyl Isobutyl Ketone	19.5	1.0	ug/L	20.00		97	60-140			
Methylene Chloride	20.7	2.0	ug/L	20.00		103	70-130			
Methyl-tert-Butyl Ether	20.0	1.0	ug/L	20.00		100	70-130			
Naphthalene	20.3	1.0	ug/L	20.00		102	70-130			
n-Butylbenzene	22.4	0.50	ug/L	20.00		112	70-130			
n-Propylbenzene	22.3	0.50	ug/L	20.00		111	70-130			
o-Xylene	21.5	0.50	ug/L	20.00		108	70-130			
sec-Butylbenzene	21.0	0.50	ug/L	20.00		105	70-130			
Styrene	21.9	0.50	ug/L	20.00		109	70-130			
tert-Amyl Alcohol	11.8	10	ug/L	20.00		59	70-130			L1
tert-Amyl Methyl Ether	40.7	10	ug/L	40.00		102	70-130			
tert-Butyl Alcohol	35.6	10	ug/L	40.00		89	70-130			
tert-Butylbenzene	21.8	0.50	ug/L	20.00		109	70-130			
tert-Butyl Ethyl Ether	40.4	10	ug/L	40.00		101	70-130			
tert-Butyl Formate	38.0	10	ug/L	40.00		95	70-130			
Tetrachloroethylene	19.5	0.50	ug/L	20.00		98	70-130			
Toluene	20.6	0.50	ug/L	20.00		103	70-130			
trans-1,2-Dichloroethylene	21.0	0.50	ug/L	20.00		105	70-130			
trans-1,3-Dichloropropylene	20.7	0.50	ug/L	20.00		104	70-130			
Trichloroethylene	20.5	0.50	ug/L	20.00		103	70-130			
Trichlorofluoromethane	21.3	0.50	ug/L	20.00		107	60-140			
Vinyl acetate	22.0	5.0	ug/L	20.00		110	60-140			
Vinyl chloride	18.1	0.50	ug/L	20.00		90	60-140			
Xylenes, total	64.2	1.5	ug/L	60.00		107	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/L*	*25.00*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*25.0*		*ug/L*	*25.00*		*100*	*70-130*			
Surrogate: Toluene-d8	*25.2*		*ug/L*	*25.00*		*101*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
LCS Dup (P5C0010-BSD1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	20.2	0.50	ug/L	20.00		101	70-130	2	20	
1,1,1-Trichloroethane	21.6	0.50	ug/L	20.00		108	70-130	3	20	
1,1,2,2-Tetrachloroethane	19.8	0.50	ug/L	20.00		99	70-130	8	20	
1,1,2-Trichloroethane	20.3	0.50	ug/L	20.00		101	70-130	2	20	
1,1-Dichloroethane	19.9	0.50	ug/L	20.00		100	70-130	5	20	
1,1-Dichloroethylene	21.4	0.50	ug/L	20.00		107	70-130	2	20	
1,1-Dichloropropylene	22.7	0.50	ug/L	20.00		114	70-130	2	20	
1,2,3-Trichlorobenzene	21.3	0.50	ug/L	20.00		107	70-130	3	20	
1,2,3-Trichloropropane	18.6	0.50	ug/L	20.00		93	70-130	3	20	
1,2,4-Trichlorobenzene	21.7	0.50	ug/L	20.00		109	70-130	0.5	20	
1,2,4-Trimethylbenzene	22.3	0.50	ug/L	20.00		112	70-130	4	20	
1,2-Dibromo-3-chloropropane	20.2	2.0	ug/L	20.00		101	70-130	0.8	20	
1,2-Dibromoethane	20.2	0.50	ug/L	20.00		101	70-130	4	20	
1,2-Dichlorobenzene	20.8	0.50	ug/L	20.00		104	70-130	0.8	20	
1,2-Dichloroethane	19.4	0.50	ug/L	20.00		97	70-130	5	20	
1,2-Dichloropropane	20.5	0.50	ug/L	20.00		103	70-130	6	20	
1,3,5-Trimethylbenzene	22.6	0.50	ug/L	20.00		113	70-130	3	20	
1,3-Dichlorobenzene	20.7	0.50	ug/L	20.00		104	70-130	0.05	20	
1,3-Dichloropropane	20.0	0.50	ug/L	20.00		100	70-130	4	20	
1,4-Dichlorobenzene	20.6	0.50	ug/L	20.00		103	70-130	2	20	
2,2-Dichloropropane	21.1	2.0	ug/L	20.00		106	70-130	1	20	
2-Chlorotoluene	20.7	0.50	ug/L	20.00		104	70-130	0.5	20	
4-Chlorotoluene	21.2	0.50	ug/L	20.00		106	70-130	4	20	
4-Isopropyltoluene	22.8	0.50	ug/L	20.00		114	70-130	4	20	
Acetone	43.7	10	ug/L	40.00		109	40-160	3	20	
Benzene	21.6	0.50	ug/L	20.00		108	70-130	2	20	
Bromobenzene	19.9	0.50	ug/L	20.00		99	70-130	3	20	
Bromochloromethane	21.0	0.50	ug/L	20.00		105	70-130	1	20	
Bromodichloromethane	19.4	0.50	ug/L	20.00		97	70-130	5	20	
Bromoform	18.2	0.50	ug/L	20.00		91	70-130	1	20	
Bromomethane	16.5	1.0	ug/L	20.00		83	60-140	0.7	20	
Carbon Tetrachloride	21.3	0.50	ug/L	20.00		107	70-130	8	20	
Chlorobenzene	20.5	0.50	ug/L	20.00		102	70-130	0.8	20	
Chloroethane	18.7	0.50	ug/L	20.00		94	60-140	0.05	20	
Chloroform	19.0	0.50	ug/L	20.00		95	70-130	3	20	
Chloromethane	16.2	0.50	ug/L	20.00		81	60-140	4	20	
cis-1,2-Dichloroethylene	20.8	0.50	ug/L	20.00		104	70-130	5	20	
cis-1,3-Dichloropropylene	21.2	0.50	ug/L	20.00		106	70-130	4	20	
Dibromochloromethane	18.9	0.50	ug/L	20.00		94	70-130	2	20	
Dibromomethane	19.6	0.50	ug/L	20.00		98	70-130	5	20	
Dichlorodifluoromethane	11.3	1.0	ug/L	20.00		56	60-140	2	20	A
Ethanol	630	200	ug/L	500.0		126	60-140	17	20	
Ethylbenzene	21.0	0.50	ug/L	20.00		105	70-130	0.9	20	
Hexachlorobutadiene	21.5	2.0	ug/L	20.00		107	70-130	3	20	
Isopropyl Ether	18.2	0.50	ug/L	20.00		91	70-130	4	20	
Isopropylbenzene (Cumene)	23.2	0.50	ug/L	20.00		116	70-130	1	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
LCS Dup (P5C0010-BSD1)				Prepared & Analyzed: 02/27/15						
m,p-Xylenes	44.2	1.0	ug/L	40.00		110	70-130	3	20	
Methyl Butyl Ketone (2-Hexanone)	22.3	1.0	ug/L	20.00		112	60-140	8	20	
Methyl Ethyl Ketone (2-Butanone)	19.5	5.0	ug/L	20.00		98	60-140	5	20	
Methyl Isobutyl Ketone	20.9	1.0	ug/L	20.00		105	60-140	7	20	
Methylene Chloride	21.2	2.0	ug/L	20.00		106	70-130	3	20	
Methyl-tert-Butyl Ether	20.5	1.0	ug/L	20.00		102	70-130	2	20	
Naphthalene	20.8	1.0	ug/L	20.00		104	70-130	2	20	
n-Butylbenzene	22.6	0.50	ug/L	20.00		113	70-130	1	20	
n-Propylbenzene	22.6	0.50	ug/L	20.00		113	70-130	2	20	
o-Xylene	22.2	0.50	ug/L	20.00		111	70-130	3	20	
sec-Butylbenzene	21.6	0.50	ug/L	20.00		108	70-130	3	20	
Styrene	22.2	0.50	ug/L	20.00		111	70-130	1	20	
tert-Amyl Alcohol	22.6	10	ug/L	20.00		113	70-130	63	20	D
tert-Amyl Methyl Ether	42.8	10	ug/L	40.00		107	70-130	5	20	
tert-Butyl Alcohol	32.5	10	ug/L	40.00		81	70-130	9	20	
tert-Butylbenzene	21.9	0.50	ug/L	20.00		110	70-130	0.5	20	
tert-Butyl Ethyl Ether	42.4	10	ug/L	40.00		106	70-130	5	20	
tert-Butyl Formate	42.2	10	ug/L	40.00		105	70-130	10	20	
Tetrachloroethylene	20.7	0.50	ug/L	20.00		103	70-130	6	20	
Toluene	21.2	0.50	ug/L	20.00		106	70-130	3	20	
trans-1,2-Dichloroethylene	21.5	0.50	ug/L	20.00		108	70-130	2	20	
trans-1,3-Dichloropropylene	21.1	0.50	ug/L	20.00		106	70-130	2	20	
Trichloroethylene	21.5	0.50	ug/L	20.00		107	70-130	5	20	
Trichlorofluoromethane	22.7	0.50	ug/L	20.00		113	60-140	6	20	
Vinyl acetate	22.5	5.0	ug/L	20.00		113	60-140	3	20	
Vinyl chloride	18.4	0.50	ug/L	20.00		92	60-140	2	20	
Xylenes, total	66.4	1.5	ug/L	60.00		111	70-130	3	20	
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/L*	*25.00*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/L*	*25.00*		*100*	*70-130*			
Surrogate: Toluene-d8	*25.0*		*ug/L*	*25.00*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
Blank (P5C0008-BLK1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitrophenol	BRL	50	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Benzidine	BRL	100	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
Blank (P5C0008-BLK1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitrosodimethylamine	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Tentatively Identified Compounds	Not Detected		ug/L							
Surrogate: 2,4,6-Tribromophenol	*78.8*		*ug/L*	*100.0*		*79*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*44.9*		*ug/L*	*50.00*		*90*	*49-118*			
Surrogate: 2-Fluorophenol	*55.1*		*ug/L*	*100.0*		*55*	*22-84*			
Surrogate: Nitrobenzene-d5	*52.7*		*ug/L*	*50.00*		*105*	*43-123*			
Surrogate: Phenol-d5	*34.5*		*ug/L*	*100.0*		*35*	*10-63*			
Surrogate: Terphenyl-d14	*57.1*		*ug/L*	*50.00*		*114*	*49-151*			
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	68.3	10	ug/L	100.0		68	44-142			
1,2-Dichlorobenzene	68.0	10	ug/L	100.0		68	32-129			
1,3-Dichlorobenzene	64.4	10	ug/L	100.0		64	20-124			
1,4-Dichlorobenzene	64.8	10	ug/L	100.0		65	20-124			
1-Methylnaphthalene	73.1	10	ug/L	100.0		73	40-135			
2,4,6-Trichlorophenol	88.0	10	ug/L	100.0		88	37-144			
2,4-Dichlorophenol	70.1	10	ug/L	100.0		70	39-135			
2,4-Dimethylphenol	69.7	10	ug/L	100.0		70	32-119			
2,4-Dinitrophenol	69.5	10	ug/L	100.0		70	10-191			
2,4-Dinitrotoluene	108	10	ug/L	100.0		108	39-139			
2,6-Dinitrotoluene	109	10	ug/L	100.0		109	50-158			
2-Chloronaphthalene	116	10	ug/L	100.0		116	60-118			
2-Chlorophenol	62.6	10	ug/L	100.0		63	23-134			
2-Methylnaphthalene	73.6	10	ug/L	100.0		74	18-121			
2-Nitrophenol	65.4	10	ug/L	100.0		65	29-182			
3,3'-Dichlorobenzidine	109	10	ug/L	100.0		109	10-262			
3/4-Methylphenol	63.6	10	ug/L	100.0		64	76-107			L
4,6-Dinitro-2-methylphenol	93.1	10	ug/L	100.0		93	10-181			
4-Bromophenyl phenyl ether	96.0	10	ug/L	100.0		96	53-127			
4-Chloro-3-methylphenol	80.6	10	ug/L	100.0		81	22-147			
4-Chloroaniline	86.9	10	ug/L	100.0		87	44-163			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
4-Chlorophenyl phenyl ether	95.1	10	ug/L	100.0		95	25-158			
4-Nitrophenol	44.5	50	ug/L	100.0		45	10-132			J
Acenaphthene	91.5	10	ug/L	100.0		91	47-145			
Acenaphthylene	91.0	10	ug/L	100.0		91	33-145			
Anthracene	99.9	10	ug/L	100.0		100	27-133			
Benzidine	189	100	ug/L	100.0		189	15-150			LH
Benzo(a)anthracene	99.9	10	ug/L	100.0		100	33-143			
Benzo(a)pyrene	136	10	ug/L	100.0		136	17-163			
Benzo(b)fluoranthene	134	10	ug/L	100.0		134	24-159			
Benzo(g,h,i)perylene	135	10	ug/L	100.0		135	10-219			
Benzo(k)fluoranthene	134	10	ug/L	100.0		134	11-162			
Benzoic Acid	19.9	100	ug/L	100.0		20	10-125			J
Benzyl alcohol	55.4	10	ug/L	100.0		55	16-107			
bis(2-Chloroethoxy)methane	69.8	10	ug/L	100.0		70	33-184			
Bis(2-Chloroethyl)ether	69.2	10	ug/L	100.0		69	12-158			
Bis(2-chloroisopropyl)ether	63.5	10	ug/L	100.0		63	36-166			
Bis(2-Ethylhexyl)phthalate	102	10	ug/L	100.0		102	10-158			
Butyl benzyl phthalate	96.5	10	ug/L	100.0		96	10-152			
Chrysene	105	10	ug/L	100.0		105	17-168			
Dibenzo(a,h)anthracene	139	10	ug/L	100.0		139	10-227			
Dibenzofuran	90.5	10	ug/L	100.0		90	39-114			
Diethyl phthalate	86.7	10	ug/L	100.0		87	10-114			
Dimethyl phthalate	66.0	10	ug/L	100.0		66	10-112			
Di-n-butyl phthalate	96.6	10	ug/L	100.0		97	10-118			
Di-n-octyl phthalate	132	10	ug/L	100.0		132	10-146			
Fluoranthene	97.1	10	ug/L	100.0		97	26-137			
Fluorene	94.2	10	ug/L	100.0		94	59-121			
Hexachlorobenzene	102	10	ug/L	100.0		102	10-152			
Hexachlorobutadiene	66.0	10	ug/L	100.0		66	24-116			
Hexachlorocyclopentadiene	73.6	10	ug/L	100.0		74	32-117			
Hexachloroethane	63.0	10	ug/L	100.0		63	40-113			
Indeno(1,2,3-cd)pyrene	144	10	ug/L	100.0		144	10-171			
Isophorone	84.6	10	ug/L	100.0		85	21-196			
Naphthalene	67.1	10	ug/L	100.0		67	21-133			
Nitrobenzene	72.9	10	ug/L	100.0		73	35-180			
N-Nitrosodimethylamine	46.7	10	ug/L	100.0		47	10-119			
N-Nitroso-di-n-propylamine	74.4	10	ug/L	100.0		74	10-230			
N-Nitrosodiphenylamine	99.9	10	ug/L	100.0		100	69-152			
Pentachlorophenol	94.3	10	ug/L	100.0		94	14-176			
Phenanthrene	96.8	10	ug/L	100.0		97	54-120			
Phenol	34.9	10	ug/L	100.0		35	10-112			
Pyrene	99.3	10	ug/L	100.0		99	52-115			
Surrogate: 2,4,6-Tribromophenol	*92.3*		*ug/L*	*100.0*		*92*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*47.5*		*ug/L*	*50.00*		*95*	*49-118*			
Surrogate: 2-Fluorophenol	*46.8*		*ug/L*	*100.0*		*47*	*22-84*			
Surrogate: Nitrobenzene-d5	*37.3*		*ug/L*	*50.00*		*75*	*43-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Surrogate: Phenol-d5	*30.1*		*ug/L*	*100.0*		*30*	*10-63*			
Surrogate: Terphenyl-d14	*59.5*		*ug/L*	*50.00*		*119*	*49-151*			
LCS Dup (P5C0008-BSD1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	81.0	10	ug/L	100.0		81	44-142	17	20	
1,2-Dichlorobenzene	81.0	10	ug/L	100.0		81	32-129	17	20	
1,3-Dichlorobenzene	77.8	10	ug/L	100.0		78	20-124	19	20	
1,4-Dichlorobenzene	76.8	10	ug/L	100.0		77	20-124	17	20	
1-Methylnaphthalene	79.9	10	ug/L	100.0		80	40-135	9	20	
2,4,6-Trichlorophenol	88.7	10	ug/L	100.0		89	37-144	0.7	20	
2,4-Dichlorophenol	78.2	10	ug/L	100.0		78	39-135	11	20	
2,4-Dimethylphenol	76.3	10	ug/L	100.0		76	32-119	9	20	
2,4-Dinitrophenol	79.8	10	ug/L	100.0		80	10-191	14	20	
2,4-Dinitrotoluene	112	10	ug/L	100.0		112	39-139	3	20	
2,6-Dinitrotoluene	115	10	ug/L	100.0		115	50-158	5	20	
2-Chloronaphthalene	121	10	ug/L	100.0		121	60-118	4	20	L2
2-Chlorophenol	75.3	10	ug/L	100.0		75	23-134	18	20	
2-Methylnaphthalene	83.2	10	ug/L	100.0		83	18-121	12	20	
2-Nitrophenol	75.1	10	ug/L	100.0		75	29-182	14	20	
3,3'-Dichlorobenzidine	116	10	ug/L	100.0		116	10-262	7	20	
3/4-Methylphenol	73.4	10	ug/L	100.0		73	76-107	14	20	L
4,6-Dinitro-2-methylphenol	100	10	ug/L	100.0		100	10-181	7	20	
4-Bromophenyl phenyl ether	100	10	ug/L	100.0		100	53-127	5	20	
4-Chloro-3-methylphenol	83.1	10	ug/L	100.0		83	22-147	3	20	
4-Chloroaniline	95.7	10	ug/L	100.0		96	44-163	10	20	
4-Chlorophenyl phenyl ether	96.4	10	ug/L	100.0		96	25-158	1	20	
4-Nitrophenol	48.0	50	ug/L	100.0		48	10-132	7	20	J
Acenaphthene	94.9	10	ug/L	100.0		95	47-145	4	20	
Acenaphthylene	93.0	10	ug/L	100.0		93	33-145	2	20	
Anthracene	103	10	ug/L	100.0		103	27-133	3	20	
Benzidine	203	100	ug/L	100.0		203	15-150	7	20	LH
Benzo(a)anthracene	107	10	ug/L	100.0		107	33-143	7	20	
Benzo(a)pyrene	142	10	ug/L	100.0		142	17-163	5	20	
Benzo(b)fluoranthene	137	10	ug/L	100.0		137	24-159	2	20	
Benzo(g,h,i)perylene	140	10	ug/L	100.0		140	10-219	4	20	
Benzo(k)fluoranthene	143	10	ug/L	100.0		143	11-162	7	20	
Benzoic Acid	25.0	100	ug/L	100.0		25	10-125	23	20	D, J
Benzyl alcohol	68.1	10	ug/L	100.0		68	16-107	21	20	D
bis(2-Chloroethoxy)methane	80.6	10	ug/L	100.0		81	33-184	14	20	
Bis(2-Chloroethyl)ether	85.0	10	ug/L	100.0		85	12-158	21	20	D
Bis(2-chloroisopropyl)ether	75.8	10	ug/L	100.0		76	36-166	18	20	
Bis(2-Ethylhexyl)phthalate	105	10	ug/L	100.0		105	10-158	2	20	
Butyl benzyl phthalate	102	10	ug/L	100.0		102	10-152	6	20	
Chrysene	111	10	ug/L	100.0		111	17-168	6	20	
Dibenzo(a,h)anthracene	143	10	ug/L	100.0		143	10-227	3	20	
Dibenzofuran	91.3	10	ug/L	100.0		91	39-114	0.9	20	
Diethyl phthalate	89.3	10	ug/L	100.0		89	10-114	3	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS Dup (P5C0008-BSD1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Dimethyl phthalate	64.7	10	ug/L	100.0		65	10-112	2	20	
Di-n-butyl phthalate	101	10	ug/L	100.0		101	10-118	4	20	
Di-n-octyl phthalate	138	10	ug/L	100.0		138	10-146	4	20	
Fluoranthene	102	10	ug/L	100.0		102	26-137	5	20	
Fluorene	97.7	10	ug/L	100.0		98	59-121	4	20	
Hexachlorobenzene	107	10	ug/L	100.0		107	10-152	4	20	
Hexachlorobutadiene	79.2	10	ug/L	100.0		79	24-116	18	20	
Hexachlorocyclopentadiene	84.6	10	ug/L	100.0		85	32-117	14	20	
Hexachloroethane	75.0	10	ug/L	100.0		75	40-113	17	20	
Indeno(1,2,3-cd)pyrene	151	10	ug/L	100.0		151	10-171	4	20	
Isophorone	90.9	10	ug/L	100.0		91	21-196	7	20	
Naphthalene	79.3	10	ug/L	100.0		79	21-133	17	20	
Nitrobenzene	86.2	10	ug/L	100.0		86	35-180	17	20	
N-Nitrosodimethylamine	53.6	10	ug/L	100.0		54	10-119	14	20	
N-Nitroso-di-n-propylamine	87.6	10	ug/L	100.0		88	10-230	16	20	
N-Nitrosodiphenylamine	104	10	ug/L	100.0		104	69-152	4	20	
Pentachlorophenol	96.2	10	ug/L	100.0		96	14-176	2	20	
Phenanthrene	99.8	10	ug/L	100.0		100	54-120	3	20	
Phenol	42.0	10	ug/L	100.0		42	10-112	18	20	
Pyrene	105	10	ug/L	100.0		105	52-115	6	20	
Surrogate: 2,4,6-Tribromophenol	*93.6*		*ug/L*	*100.0*		*94*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*49.5*		*ug/L*	*50.00*		*99*	*49-118*			
Surrogate: 2-Fluorophenol	*53.9*		*ug/L*	*100.0*		*54*	*22-84*			
Surrogate: Nitrobenzene-d5	*44.2*		*ug/L*	*50.00*		*88*	*43-123*			
Surrogate: Phenol-d5	*36.0*		*ug/L*	*100.0*		*36*	*10-63*			
Surrogate: Terphenyl-d14	*60.8*		*ug/L*	*50.00*		*122*	*49-151*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0473 - MADEP VPH (W)										
Blank (P5B0473-BLK1)				Prepared & Analyzed: 02/25/15						
C5-C8 Aliphatics	BRL	50	ug/L							
C9-C12 Aliphatics	BRL	50	ug/L							
C9-C10 Aromatics	BRL	50	ug/L							
Surrogate: 2,5-Dibromotoluene (PID)	*93.3*		*ug/L*	*100.0*		*93*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*95.1*		*ug/L*	*100.0*		*95*	*70-130*			
LCS (P5B0473-BS1)				Prepared & Analyzed: 02/25/15						
C5-C8 Aliphatics	325	50	ug/L	300.0		108	70-130			
C9-C10 Aromatics	103	50	ug/L	100.0		103	70-130			
C9-C12 Aliphatic	348	50	ug/L	300.0		116	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*103*		*ug/L*	*100.0*		*103*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*103*		*ug/L*	*100.0*		*103*	*70-130*			
LCS Dup (P5B0473-BSD1)				Prepared & Analyzed: 02/25/15						
C5-C8 Aliphatics	317	50	ug/L	300.0		106	70-130	2	50	
C9-C10 Aromatics	100	50	ug/L	100.0		100	70-130	3	50	
C9-C12 Aliphatic	346	50	ug/L	300.0		115	70-130	0.5	50	
Surrogate: 2,5-Dibromotoluene (PID)	*97.9*		*ug/L*	*100.0*		*98*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*98.7*		*ug/L*	*100.0*		*99*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020436
Time Submitted: 2/25/2015 8:25:00AM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5B0466 - MADEP EPH (W)										
Blank (P5B0466-BLK1)				Prepared: 02/25/15 Analyzed: 02/26/15						
C9-C18 Aliphatics	BRL	100	ug/L							
C19-C36 Aliphatics	BRL	100	ug/L							
C11-C22 Aromatics	BRL	100	ug/L							
Surrogate: 1-Chlorooctadecane	*15.7*		*ug/L*	*20.00*		*78*	*40-140*			
Surrogate: o-Terphenyl	*15.4*		*ug/L*	*20.00*		*77*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*32.0*		*ug/L*	*40.00*		*80*	*40-140*			
Surrogate: 2-Bromonaphthalene	*28.8*		*ug/L*	*40.00*		*72*	*40-140*			
LCS (P5B0466-BS1)				Prepared: 02/25/15 Analyzed: 02/26/15						
C9-C18 Aliphatics	420	100	ug/L	600.0		70	40-140			
C19-C36 Aliphatics	744	100	ug/L	800.0		93	40-140			
C11-C22 Aromatics	1480	100	ug/L	1700		87	40-140			
Surrogate: 1-Chlorooctadecane	*20.8*		*ug/L*	*20.00*		*104*	*40-140*			
Surrogate: o-Terphenyl	*19.3*		*ug/L*	*20.00*		*97*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*36.6*		*ug/L*	*40.00*		*91*	*40-140*			
Surrogate: 2-Bromonaphthalene	*26.1*		*ug/L*	*40.00*		*65*	*40-140*			
LCS Dup (P5B0466-BSD1)				Prepared: 02/25/15 Analyzed: 02/26/15						
C9-C18 Aliphatics	374	100	ug/L	600.0		62	40-140	12	50	
C19-C36 Aliphatics	734	100	ug/L	800.0		92	40-140	1	50	
C11-C22 Aromatics	1470	100	ug/L	1700		86	40-140	1	50	
Surrogate: 1-Chlorooctadecane	*17.4*		*ug/L*	*20.00*		*87*	*40-140*			
Surrogate: o-Terphenyl	*18.6*		*ug/L*	*20.00*		*93*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*41.2*		*ug/L*	*40.00*		*103*	*40-140*			
Surrogate: 2-Bromonaphthalene	*42.0*		*ug/L*	*40.00*		*105*	*40-140*			

Sample Extraction Data

Prep Method: MADEP EPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5020436-01	P5B0466	1000 mL	2 mL	02/26/15 8:30
5020436-02	P5B0466	1000 mL	2 mL	02/26/15 8:30

Prep Method: 625

Lab Number	Batch	Initial	Final	Date/Time
5020436-01	P5C0008	950 mL	1 mL	03/02/15 9:55
5020436-02	P5C0008	900 mL	1 mL	03/02/15 12:35

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
5020436-01	P5C0010	10 mL	10 mL	02/27/15 10:46
5020436-02	P5C0010	10 mL	10 mL	02/27/15 10:46

Prep Method: MADEP VPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5020436-01	P5B0473	44 mL	44 mL	02/25/15 12:37
5020436-02	P5B0473	44 mL	44 mL	02/25/15 12:37

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: ______

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	X		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	X		
Received WITHIN HOLDING TIMES?	X		
CUSTODY SEALS INTACT?			X
VOLATILES rec'd W/OUT HEADSPACE?	X		
PROPER CONTAINERS used?	X		

TEMP: Therm ID: IR-2 Observed: 2.0 °C / Corr: 0.6 °C

Client Company Name: AECOM
Report To/Contact Name: James McDorman
Reporting Address: 6000 Fairview Road Suite 200 Charlotte, NC
Phone: 704 522 0330 Fax (Yes) (No): ______
Email Address: jim.mcdorman@aecom.com
EDD Type: PDF____ Excel____ Other______
Site Location Name: Rental Car Facilities
Site Location Physical Address: ______

Project Name: Charlotte Airport Rental Car Site
Short Hold Analysis: (Yes) (No) — No circled
UST Project: (Yes) (NO) — Yes circled
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Michelle Friedman
Address: 5925 Carnegie Blvd, Suite 300 Charlotte, NC 28209
Purchase Order No./Billing Reference 60340238
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO X
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVA-TIVES	VOCs by 6200B	VOCs + Xylenes 602	MADEP VPH	MADEP EPH	SVOCs HOHs 625	Pb*	Cr*	REMARKS	PRISM LAB ID NO.
Hertz MW-5R	2/24/15	1235	Water	VOA/A/P	6/4/1	—	HCl/HCl None/HNO3	X		X	X	X	X	X	Used Oil	01
Hertz MW-11	2/24/15	1435	Water	VOA/A	6/4	—	HCl/HCl None	X		X	X	X			Medium Boiling Point Fuels	02

Sampler's Signature [signature] Sampled By (Print Name) Matthew Stone Affiliation AECOM

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	2/25/15	0759
	[signature]		
[signature]	Received For Prism Laboratories By: [signature]	2/25/15	0825

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other______

COC Group No. 5020436

Additional Comments: Pb/Cr not rec'd. Notified Matt Stone 2/25/15 (NA) ★

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: ☐ NC ☐ SC | UST: ☐ NC ☐ SC | GROUNDWATER: ☐ NC ☐ SC | DRINKING WATER: ☐ NC ☐ SC | SOLID WASTE: ☐ NC ☐ SC | RCRA: ☐ NC ☐ SC | CERCLA ☐ NC ☐ SC | LANDFILL ☐ NC ☐ SC | OTHER: ☐ NC ☐ SC

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/09/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/25/2015
Prism Work Order: 5020450

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones

President/Project Manager

Reviewed By Robbi A. Jones

President/Project Manager

Data Qualifiers Key Reference:

A	Low LCS/LCSD recovery but CCV within QC limit. Analyte not detected in samples down to MDL.
D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L	Parameter reported with possible low bias. LCS recovery below the QC limit.
L1	LCS recovery outside of the QC limits. LCSD recovery within the limits. No further action taken.
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
M	Matrix spike outside of the control limits.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

03/09/2015

Prism Work Order: 5020450

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Advantage TMW-1	5020450-01	Water	02/25/15	02/25/15
Advantage TMW-2	5020450-02	Water	02/25/15	02/25/15
Advantage TMW-4	5020450-03	Water	02/25/15	02/25/15
Advantage TMW-5	5020450-04	Water	02/25/15	02/25/15
Budget TMW-3	5020450-05	Water	02/25/15	02/25/15
Budget TMW-4	5020450-06	Water	02/25/15	02/25/15
Budget TMW-5	5020450-07	Water	02/25/15	02/25/15
Budget TMW-6	5020450-08	Water	02/25/15	02/25/15
Dup-3	5020450-09	Water	02/25/15	02/25/15
Avis TMW-1	5020450-10	Water	02/25/15	02/25/15

Samples were received in good condition at 4.7 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/09/2015

Prism Work Order: 5020450

Prism ID	Client ID	Parameter	Method	Result		Units
5020450-01	Advantage TMW-1	Acetone	SM6200 B	10		ug/L
5020450-01	Advantage TMW-1	Isopropyl Ether	SM6200 B	1.8		ug/L
5020450-01	Advantage TMW-1	Methyl Ethyl Ketone (2-Butanone)	SM6200 B	5.5		ug/L
5020450-01	Advantage TMW-1	Methyl-tert-Butyl Ether	SM6200 B	14		ug/L
5020450-01	Advantage TMW-1	C5-C8 Aliphatics	MADEP VPH	14	J	ug/L
5020450-02	Advantage TMW-2	Lead	*6010C	0.0075		mg/L
5020450-02	Advantage TMW-2	Isopropyl Ether	SM6200 B	19		ug/L
5020450-02	Advantage TMW-2	Methyl-tert-Butyl Ether	SM6200 B	3.4		ug/L
5020450-02	Advantage TMW-2	tert-Amyl Methyl Ether	SM6200 B	1.6	J	ug/L
5020450-02	Advantage TMW-2	tert-Butyl Alcohol	SM6200 B	46		ug/L
5020450-02	Advantage TMW-2	C5-C8 Aliphatics	MADEP VPH	47	J	ug/L
5020450-02	Advantage TMW-2	C9-C12 Aliphatics	MADEP VPH	15	J	ug/L
5020450-02	Advantage TMW-2	C9-C10 Aromatics	MADEP VPH	4.6	J	ug/L
5020450-03	Advantage TMW-4	Isopropyl Ether	SM6200 B	2.3		ug/L
5020450-03	Advantage TMW-4	Methyl-tert-Butyl Ether	SM6200 B	16		ug/L
5020450-03	Advantage TMW-4	C5-C8 Aliphatics	MADEP VPH	23	J	ug/L
5020450-03	Advantage TMW-4	C9-C12 Aliphatics	MADEP VPH	15	J	ug/L
5020450-03	Advantage TMW-4	C9-C10 Aromatics	MADEP VPH	2.6	J	ug/L
5020450-05	Budget TMW-3	Lead	*6010C	0.055		mg/L
5020450-05	Budget TMW-3	1,2,4-Trimethylbenzene	SM6200 B	0.52		ug/L
5020450-05	Budget TMW-3	Benzene	SM6200 B	4.5		ug/L
5020450-05	Budget TMW-3	Ethylbenzene	SM6200 B	0.51		ug/L
5020450-05	Budget TMW-3	Isopropyl Ether	SM6200 B	6.0		ug/L
5020450-05	Budget TMW-3	Isopropylbenzene (Cumene)	SM6200 B	1.5		ug/L
5020450-05	Budget TMW-3	m,p-Xylenes	SM6200 B	1.0		ug/L
5020450-05	Budget TMW-3	Methyl-tert-Butyl Ether	SM6200 B	83		ug/L
5020450-05	Budget TMW-3	Naphthalene	SM6200 B	11		ug/L
5020450-05	Budget TMW-3	o-Xylene	SM6200 B	0.51		ug/L
5020450-05	Budget TMW-3	tert-Amyl Alcohol	SM6200 B	19		ug/L
5020450-05	Budget TMW-3	tert-Amyl Methyl Ether	SM6200 B	10		ug/L
5020450-05	Budget TMW-3	tert-Butyl Alcohol	SM6200 B	6.5	J	ug/L
5020450-05	Budget TMW-3	Toluene	SM6200 B	1.1		ug/L
5020450-05	Budget TMW-3	Xylenes, total	SM6200 B	1.6		ug/L
5020450-05	Budget TMW-3	C5-C8 Aliphatics	MADEP VPH	130		ug/L
5020450-05	Budget TMW-3	C9-C12 Aliphatics	MADEP VPH	54		ug/L
5020450-05	Budget TMW-3	C9-C10 Aromatics	MADEP VPH	35	J	ug/L
5020450-06	Budget TMW-4	Acetone	SM6200 B	11		ug/L
5020450-06	Budget TMW-4	Isopropyl Ether	SM6200 B	1.4		ug/L
5020450-06	Budget TMW-4	m,p-Xylenes	SM6200 B	0.71	J	ug/L
5020450-06	Budget TMW-4	Methyl-tert-Butyl Ether	SM6200 B	31		ug/L
5020450-06	Budget TMW-4	Naphthalene	SM6200 B	0.68	J	ug/L
5020450-06	Budget TMW-4	tert-Amyl Methyl Ether	SM6200 B	3.6	J	ug/L
5020450-06	Budget TMW-4	Toluene	SM6200 B	0.67		ug/L
5020450-06	Budget TMW-4	Xylenes, total	SM6200 B	0.71	J	ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/09/2015

Prism Work Order: 5020450

Prism ID	Client ID	Parameter	Method	Result		Units
5020450-06	Budget TMW-4	C5-C8 Aliphatics	MADEP VPH	32	J	ug/L
5020450-07	Budget TMW-5	Lead	*6010C	0.011		mg/L
5020450-08	Budget TMW-6	Isopropyl Ether	SM6200 B	140		ug/L
5020450-08	Budget TMW-6	Methyl-tert-Butyl Ether	SM6200 B	740		ug/L
5020450-08	Budget TMW-6	tert-Amyl Alcohol	SM6200 B	1300		ug/L
5020450-08	Budget TMW-6	tert-Amyl Methyl Ether	SM6200 B	4.2	J	ug/L
5020450-08	Budget TMW-6	tert-Butyl Alcohol	SM6200 B	1600		ug/L
5020450-08	Budget TMW-6	Toluene	SM6200 B	0.87		ug/L
5020450-08	Budget TMW-6	C5-C8 Aliphatics	MADEP VPH	930		ug/L
5020450-09	Dup-3	Acetone	SM6200 B	7.3	J	ug/L
5020450-09	Dup-3	Isopropyl Ether	SM6200 B	2.3		ug/L
5020450-09	Dup-3	Methyl-tert-Butyl Ether	SM6200 B	15		ug/L
5020450-10	Avis TMW-1	Diethyl phthalate	625	3.1	J	ug/L
5020450-10	Avis TMW-1	Unknown (1)	625	41		ug/L
5020450-10	Avis TMW-1	m,p-Xylenes	SM6200 B	0.50	J	ug/L
5020450-10	Avis TMW-1	Xylenes, total	SM6200 B	0.50	J	ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-1
Prism Sample ID: 5020450-01
Prism Work Order: 5020450
Time Collected: 02/25/15 10:00
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	3/3/15 17:07	BGM	P5C0002
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Acetone	**10**	**ug/L**	**10**	**0.31**	**1**	**SM6200 B**	**2/27/15 14:46**	**VHL**	**P5C0010**
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/27/15 14:46	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-1
Prism Sample ID: 5020450-01
Prism Work Order: 5020450
Time Collected: 02/25/15 10:00
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Isopropyl Ether	**1.8**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**2/27/15 14:46**	**VHL**	**P5C0010**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Methyl Ethyl Ketone (2-Butanone)	**5.5**	**ug/L**	**5.0**	**0.24**	**1**	**SM6200 B**	**2/27/15 14:46**	**VHL**	**P5C0010**
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Methyl-tert-Butyl Ether	**14**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/27/15 14:46**	**VHL**	**P5C0010**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/27/15 14:46	VHL	P5C0010
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/27/15 14:46	VHL	P5C0010

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*70-130*
Dibromofluoromethane	*104 %*	*70-130*
Toluene-d8	*100 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**14 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/3/15 18:50**	**ANG**	**P5C0048**
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	3/3/15 18:50	ANG	P5C0048
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	3/3/15 18:50	ANG	P5C0048

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*90 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-1
Prism Sample ID: 5020450-01
Prism Work Order: 5020450
Time Collected: 02/25/15 10:00
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (FID)							*94 %*	*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-2
Prism Sample ID: 5020450-02
Prism Work Order: 5020450
Time Collected: 02/25/15 09:25
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	**0.0075**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**3/3/15 17:15**	**BGM**	**P5C0002**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/27/15 15:20	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-2
Prism Sample ID: 5020450-02
Prism Work Order: 5020450
Time Collected: 02/25/15 09:25
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Isopropyl Ether	**19**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**2/27/15 15:20**	**VHL**	**P5C0010**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Methyl-tert-Butyl Ether	**3.4**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/27/15 15:20**	**VHL**	**P5C0010**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
tert-Amyl Methyl Ether	**1.6 J**	**ug/L**	**10**	**0.10**	**1**	**SM6200 B**	**2/27/15 15:20**	**VHL**	**P5C0010**
tert-Butyl Alcohol	**46**	**ug/L**	**10**	**0.64**	**1**	**SM6200 B**	**2/27/15 15:20**	**VHL**	**P5C0010**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/27/15 15:20	VHL	P5C0010
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/27/15 15:20	VHL	P5C0010

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*110 %*	*70-130*
Dibromofluoromethane	*106 %*	*70-130*
Toluene-d8	*97 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**47 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/3/15 19:23**	**ANG**	**P5C0048**
C9-C12 Aliphatics	**15 J**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**3/3/15 19:23**	**ANG**	**P5C0048**
C9-C10 Aromatics	**4.6 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**3/3/15 19:23**	**ANG**	**P5C0048**

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-2
Prism Sample ID: 5020450-02
Prism Work Order: 5020450
Time Collected: 02/25/15 09:25
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (PID)							*94 %*	*70-130*	
2,5-Dibromotoluene (FID)							*96 %*	*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-4
Prism Sample ID: 5020450-03
Prism Work Order: 5020450
Time Collected: 02/25/15 09:45
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	3/3/15 17:23	BGM	P5C0002
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/27/15 15:54	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-4
Prism Sample ID: 5020450-03
Prism Work Order: 5020450
Time Collected: 02/25/15 09:45
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Isopropyl Ether	**2.3**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**2/27/15 15:54**	**VHL**	**P5C0010**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Methyl-tert-Butyl Ether	**16**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/27/15 15:54**	**VHL**	**P5C0010**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/27/15 15:54	VHL	P5C0010
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/27/15 15:54	VHL	P5C0010

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*70-130*
Dibromofluoromethane	*106 %*	*70-130*
Toluene-d8	*99 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**23 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/3/15 19:55**	**ANG**	**P5C0048**
C9-C12 Aliphatics	**15 J**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**3/3/15 19:55**	**ANG**	**P5C0048**
C9-C10 Aromatics	**2.6 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**3/3/15 19:55**	**ANG**	**P5C0048**

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*94 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-4
Prism Sample ID: 5020450-03
Prism Work Order: 5020450
Time Collected: 02/25/15 09:45
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (FID)						*98 %*		*70-130*	

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-5
Prism Sample ID: 5020450-04
Prism Work Order: 5020450
Time Collected: 02/25/15 11:05
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/6/15 12:35	KC	P5C0062
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/6/15 12:35	KC	P5C0062
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/6/15 12:35	KC	P5C0062

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*81 %*	*40-140*
o-Terphenyl	*93 %*	*40-140*
2-Fluorobiphenyl	*92 %*	*40-140*
2-Bromonaphthalene	*84 %*	*40-140*

Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 22:04	KC	P5C0008
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 22:04	KC	P5C0008
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 22:04	KC	P5C0008
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 22:04	KC	P5C0008
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/4/15 22:04	KC	P5C0008
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 22:04	KC	P5C0008
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 22:04	KC	P5C0008
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/4/15 22:04	KC	P5C0008
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/4/15 22:04	KC	P5C0008
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	3/4/15 22:04	KC	P5C0008
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/4/15 22:04	KC	P5C0008
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/4/15 22:04	KC	P5C0008
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 22:04	KC	P5C0008
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 22:04	KC	P5C0008
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/4/15 22:04	KC	P5C0008
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/4/15 22:04	KC	P5C0008
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/4/15 22:04	KC	P5C0008
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/4/15 22:04	KC	P5C0008
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
Anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
Benzidine	BRL	ug/L	100	2.9	1	625	3/4/15 22:04	KC	P5C0008
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/4/15 22:04	KC	P5C0008
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/4/15 22:04	KC	P5C0008
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/4/15 22:04	KC	P5C0008
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/4/15 22:04	KC	P5C0008
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/4/15 22:04	KC	P5C0008

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-5
Prism Sample ID: 5020450-04
Prism Work Order: 5020450
Time Collected: 02/25/15 11:05
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/4/15 22:04	KC	P5C0008
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/4/15 22:04	KC	P5C0008
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/4/15 22:04	KC	P5C0008
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/4/15 22:04	KC	P5C0008
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 22:04	KC	P5C0008
Chrysene	BRL	ug/L	10	1.4	1	625	3/4/15 22:04	KC	P5C0008
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	3/4/15 22:04	KC	P5C0008
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 22:04	KC	P5C0008
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/4/15 22:04	KC	P5C0008
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/4/15 22:04	KC	P5C0008
Fluorene	BRL	ug/L	10	1.5	1	625	3/4/15 22:04	KC	P5C0008
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/4/15 22:04	KC	P5C0008
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/4/15 22:04	KC	P5C0008
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/4/15 22:04	KC	P5C0008
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/4/15 22:04	KC	P5C0008
Isophorone	BRL	ug/L	10	1.5	1	625	3/4/15 22:04	KC	P5C0008
Naphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 22:04	KC	P5C0008
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/4/15 22:04	KC	P5C0008
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/4/15 22:04	KC	P5C0008
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/4/15 22:04	KC	P5C0008
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/4/15 22:04	KC	P5C0008
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 22:04	KC	P5C0008
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/4/15 22:04	KC	P5C0008
Phenol	BRL	ug/L	10	0.90	1	625	3/4/15 22:04	KC	P5C0008
Pyrene	BRL	ug/L	10	1.5	1	625	3/4/15 22:04	KC	P5C0008
TIC: Tentatively Identified Compounds	Not Detected	ug/L			1	625	3/4/15 22:04	KC	P5C0008

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*61 %*	*31-144*
2-Fluorobiphenyl	*77 %*	*49-118*
2-Fluorophenol	*47 %*	*22-84*
Nitrobenzene-d5	*79 %*	*43-123*
Phenol-d5	*31 %*	*10-63*
Terphenyl-d14	*84 %*	*49-151*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-3
Prism Sample ID: 5020450-05
Prism Work Order: 5020450
Time Collected: 02/25/15 13:15
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	**0.055**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**3/3/15 17:30**	**BGM**	**P5C0002**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,2,4-Trimethylbenzene	**0.52**	**ug/L**	**0.50**	**0.054**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Benzene	**4.5**	**ug/L**	**0.50**	**0.048**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/27/15 16:29	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-3
Prism Sample ID: 5020450-05
Prism Work Order: 5020450
Time Collected: 02/25/15 13:15
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Ethylbenzene	**0.51**	**ug/L**	**0.50**	**0.061**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Isopropyl Ether	**6.0**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
Isopropylbenzene (Cumene)	**1.5**	**ug/L**	**0.50**	**0.054**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
m,p-Xylenes	**1.0**	**ug/L**	**1.0**	**0.12**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Methyl-tert-Butyl Ether	**83**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
Naphthalene	**11**	**ug/L**	**1.0**	**0.19**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
o-Xylene	**0.51**	**ug/L**	**0.50**	**0.044**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
tert-Amyl Alcohol	**19**	**ug/L**	**10**	**0.72**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
tert-Amyl Methyl Ether	**10**	**ug/L**	**10**	**0.10**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
tert-Butyl Alcohol	**6.5 J**	**ug/L**	**10**	**0.64**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Toluene	**1.1**	**ug/L**	**0.50**	**0.044**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/27/15 16:29	VHL	P5C0010
Xylenes, total	**1.6**	**ug/L**	**1.5**	**0.15**	**1**	**SM6200 B**	**2/27/15 16:29**	**VHL**	**P5C0010**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*70-130*
Dibromofluoromethane	*102 %*	*70-130*
Toluene-d8	*100 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**130**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/3/15 20:28**	**ANG**	**P5C0048**
C9-C12 Aliphatics	**54**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**3/3/15 20:28**	**ANG**	**P5C0048**
C9-C10 Aromatics	**35 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**3/3/15 20:28**	**ANG**	**P5C0048**

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-3
Prism Sample ID: 5020450-05
Prism Work Order: 5020450
Time Collected: 02/25/15 13:15
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (PID)							*96 %*	*70-130*	
2,5-Dibromotoluene (FID)							*99 %*	*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-4
Prism Sample ID: 5020450-06
Prism Work Order: 5020450
Time Collected: 02/25/15 13:35
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	3/3/15 17:39	BGM	P5C0002
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Acetone	**11**	**ug/L**	**10**	**0.31**	**1**	**SM6200 B**	**2/27/15 17:03**	**VHL**	**P5C0010**
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/27/15 17:03	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-4
Prism Sample ID: 5020450-06
Prism Work Order: 5020450
Time Collected: 02/25/15 13:35
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Isopropyl Ether	**1.4**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**2/27/15 17:03**	**VHL**	**P5C0010**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
m,p-Xylenes	**0.71 J**	**ug/L**	**1.0**	**0.12**	**1**	**SM6200 B**	**2/27/15 17:03**	**VHL**	**P5C0010**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Methyl-tert-Butyl Ether	**31**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/27/15 17:03**	**VHL**	**P5C0010**
Naphthalene	**0.68 J**	**ug/L**	**1.0**	**0.19**	**1**	**SM6200 B**	**2/27/15 17:03**	**VHL**	**P5C0010**
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
tert-Amyl Methyl Ether	**3.6 J**	**ug/L**	**10**	**0.10**	**1**	**SM6200 B**	**2/27/15 17:03**	**VHL**	**P5C0010**
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Toluene	**0.67**	**ug/L**	**0.50**	**0.044**	**1**	**SM6200 B**	**2/27/15 17:03**	**VHL**	**P5C0010**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/27/15 17:03	VHL	P5C0010
Xylenes, total	**0.71 J**	**ug/L**	**1.5**	**0.15**	**1**	**SM6200 B**	**2/27/15 17:03**	**VHL**	**P5C0010**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*100 %*	*70-130*
Dibromofluoromethane	*105 %*	*70-130*
Toluene-d8	*100 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**32 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/3/15 21:01**	**ANG**	**P5C0048**
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	3/3/15 21:01	ANG	P5C0048
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	3/3/15 21:01	ANG	P5C0048

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-4
Prism Sample ID: 5020450-06
Prism Work Order: 5020450
Time Collected: 02/25/15 13:35
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (PID)							*96 %*	*70-130*	
2,5-Dibromotoluene (FID)							*101 %*	*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-5
Prism Sample ID: 5020450-07
Prism Work Order: 5020450
Time Collected: 02/25/15 13:10
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	**0.011**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**3/3/15 17:46**	**BGM**	**P5C0002**

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-6
Prism Sample ID: 5020450-08
Prism Work Order: 5020450
Time Collected: 02/25/15 13:05
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	3/3/15 17:54	BGM	P5C0002
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/27/15 17:37	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-6
Prism Sample ID: 5020450-08
Prism Work Order: 5020450
Time Collected: 02/25/15 13:05
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Isopropyl Ether	**140**	**ug/L**	**25**	**2.5**	**50**	**SM6200 B**	**3/2/15 18:43**	**VHL**	**P5C0010**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Methyl-tert-Butyl Ether	**740**	**ug/L**	**50**	**2.1**	**50**	**SM6200 B**	**3/2/15 18:43**	**VHL**	**P5C0010**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
tert-Amyl Alcohol	**1300**	**ug/L**	**500**	**36**	**50**	**SM6200 B**	**3/2/15 18:43**	**VHL**	**P5C0010**
tert-Amyl Methyl Ether	**4.2 J**	**ug/L**	**10**	**0.10**	**1**	**SM6200 B**	**2/27/15 17:37**	**VHL**	**P5C0010**
tert-Butyl Alcohol	**1600**	**ug/L**	**500**	**32**	**50**	**SM6200 B**	**3/2/15 18:43**	**VHL**	**P5C0010**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Toluene	**0.87**	**ug/L**	**0.50**	**0.044**	**1**	**SM6200 B**	**2/27/15 17:37**	**VHL**	**P5C0010**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/27/15 17:37	VHL	P5C0010
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/27/15 17:37	VHL	P5C0010

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*70-130*
Dibromofluoromethane	*100 %*	*70-130*
Toluene-d8	*98 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**930**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/3/15 21:33**	**ANG**	**P5C0048**
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	3/3/15 21:33	ANG	P5C0048
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	3/3/15 21:33	ANG	P5C0048

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Budget TMW-6
Prism Sample ID: 5020450-08
Prism Work Order: 5020450
Time Collected: 02/25/15 13:05
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (PID)							*93 %*	*70-130*	
2,5-Dibromotoluene (FID)							*97 %*	*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dup-3
Prism Sample ID: 5020450-09
Prism Work Order: 5020450
Time Collected: 02/25/15 08:00
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Acetone	**7.3 J**	**ug/L**	**10**	**0.31**	**1**	**SM6200 B**	**2/27/15 18:12**	**VHL**	**P5C0010**
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/27/15 18:12	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dup-3
Prism Sample ID: 5020450-09
Prism Work Order: 5020450
Time Collected: 02/25/15 08:00
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Isopropyl Ether	**2.3**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**2/27/15 18:12**	**VHL**	**P5C0010**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Methyl-tert-Butyl Ether	**15**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**2/27/15 18:12**	**VHL**	**P5C0010**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/27/15 18:12	VHL	P5C0010
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	2/27/15 18:12	VHL	P5C0010

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*105 %*	*70-130*
Dibromofluoromethane	*104 %*	*70-130*
Toluene-d8	*101 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Avis TMW-1
Prism Sample ID: 5020450-10
Prism Work Order: 5020450
Time Collected: 02/25/15 15:10
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/6/15 13:11	KC	P5C0062
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/6/15 13:11	KC	P5C0062
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/6/15 13:11	KC	P5C0062
			Surrogate			Recovery		Control Limits	
			1-Chlorooctadecane			*73 %*		*40-140*	
			o-Terphenyl			*82 %*		*40-140*	
			2-Fluorobiphenyl			*87 %*		*40-140*	
			2-Bromonaphthalene			*81 %*		*40-140*	
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 22:25	KC	P5C0008
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 22:25	KC	P5C0008
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 22:25	KC	P5C0008
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 22:25	KC	P5C0008
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/4/15 22:25	KC	P5C0008
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 22:25	KC	P5C0008
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 22:25	KC	P5C0008
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/4/15 22:25	KC	P5C0008
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/4/15 22:25	KC	P5C0008
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	3/4/15 22:25	KC	P5C0008
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/4/15 22:25	KC	P5C0008
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/4/15 22:25	KC	P5C0008
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 22:25	KC	P5C0008
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 22:25	KC	P5C0008
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/4/15 22:25	KC	P5C0008
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/4/15 22:25	KC	P5C0008
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/4/15 22:25	KC	P5C0008
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/4/15 22:25	KC	P5C0008
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
Anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
Benzidine	BRL	ug/L	100	2.9	1	625	3/4/15 22:25	KC	P5C0008
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/4/15 22:25	KC	P5C0008
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/4/15 22:25	KC	P5C0008
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/4/15 22:25	KC	P5C0008
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/4/15 22:25	KC	P5C0008
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/4/15 22:25	KC	P5C0008

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Avis TMW-1
Prism Sample ID: 5020450-10
Prism Work Order: 5020450
Time Collected: 02/25/15 15:10
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/4/15 22:25	KC	P5C0008
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/4/15 22:25	KC	P5C0008
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/4/15 22:25	KC	P5C0008
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/4/15 22:25	KC	P5C0008
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 22:25	KC	P5C0008
Chrysene	BRL	ug/L	10	1.4	1	625	3/4/15 22:25	KC	P5C0008
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
Diethyl phthalate	**3.1 J**	**ug/L**	**10**	**0.98**	**1**	**625**	**3/4/15 22:25**	**KC**	**P5C0008**
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 22:25	KC	P5C0008
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/4/15 22:25	KC	P5C0008
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/4/15 22:25	KC	P5C0008
Fluorene	BRL	ug/L	10	1.5	1	625	3/4/15 22:25	KC	P5C0008
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/4/15 22:25	KC	P5C0008
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/4/15 22:25	KC	P5C0008
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/4/15 22:25	KC	P5C0008
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/4/15 22:25	KC	P5C0008
Isophorone	BRL	ug/L	10	1.5	1	625	3/4/15 22:25	KC	P5C0008
Naphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 22:25	KC	P5C0008
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/4/15 22:25	KC	P5C0008
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/4/15 22:25	KC	P5C0008
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/4/15 22:25	KC	P5C0008
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/4/15 22:25	KC	P5C0008
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 22:25	KC	P5C0008
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/4/15 22:25	KC	P5C0008
Phenol	BRL	ug/L	10	0.90	1	625	3/4/15 22:25	KC	P5C0008
Pyrene	BRL	ug/L	10	1.5	1	625	3/4/15 22:25	KC	P5C0008
TIC: Unknown (1)	**41**	**ug/L**			**1**	**625**	**3/4/15 22:25**	**KC**	**P5C0008**

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*31 %*	*31-144*
2-Fluorobiphenyl	*69 %*	*49-118*
2-Fluorophenol	*32 %*	*22-84*
Nitrobenzene-d5	*80 %*	*43-123*
Phenol-d5	*24 %*	*10-63*
Terphenyl-d14	*95 %*	*49-151*

Total Metals

Chromium	BRL	mg/L	0.0050	0.00038	1	*6010C	3/3/15 18:02	BGM	P5C0002
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	3/3/15 18:02	BGM	P5C0002

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 18:46	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Avis TMW-1
Prism Sample ID: 5020450-10
Prism Work Order: 5020450
Time Collected: 02/25/15 15:10
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Ethanol	BRL	ug/L	200	27	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	2/27/15 18:46	VHL	P5C0010

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Avis TMW-1
Prism Sample ID: 5020450-10
Prism Work Order: 5020450
Time Collected: 02/25/15 15:10
Time Submitted: 02/25/15 16:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
m,p-Xylenes	**0.50 J**	**ug/L**	**1.0**	**0.12**	**1**	**SM6200 B**	**2/27/15 18:46**	**VHL**	**P5C0010**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	2/27/15 18:46	VHL	P5C0010
Xylenes, total	**0.50 J**	**ug/L**	**1.5**	**0.15**	**1**	**SM6200 B**	**2/27/15 18:46**	**VHL**	**P5C0010**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*70-130*
Dibromofluoromethane	*111 %*	*70-130*
Toluene-d8	*102 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	3/3/15 22:06	ANG	P5C0048
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	3/3/15 22:06	ANG	P5C0048
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	3/3/15 22:06	ANG	P5C0048

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*104 %*	*70-130*
2,5-Dibromotoluene (FID)	*109 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
Blank (P5C0010-BLK1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	0.50	ug/L							
1,2,4-Trichlorobenzene	BRL	0.50	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	10	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	0.50	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethanol	BRL	200	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
Blank (P5C0010-BLK1)				Prepared & Analyzed: 02/27/15						
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	1.0	ug/L							
Methylene Chloride	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	1.0	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	0.50	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Amyl Alcohol	BRL	10	ug/L							
tert-Amyl Methyl Ether	BRL	10	ug/L							
tert-Butyl Alcohol	BRL	10	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
tert-Butyl Ethyl Ether	BRL	10	ug/L							
tert-Butyl Formate	BRL	10	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	5.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*26.1*		*ug/L*	*25.00*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*26.9*		*ug/L*	*25.00*		*108*	*70-130*			
Surrogate: Toluene-d8	*25.0*		*ug/L*	*25.00*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
LCS (P5C0010-BS1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	19.7	0.50	ug/L	20.00		98	70-130			
1,1,1-Trichloroethane	21.1	0.50	ug/L	20.00		105	70-130			
1,1,2,2-Tetrachloroethane	18.4	0.50	ug/L	20.00		92	70-130			
1,1,2-Trichloroethane	19.8	0.50	ug/L	20.00		99	70-130			
1,1-Dichloroethane	19.0	0.50	ug/L	20.00		95	70-130			
1,1-Dichloroethylene	21.1	0.50	ug/L	20.00		105	70-130			
1,1-Dichloropropylene	22.3	0.50	ug/L	20.00		112	70-130			
1,2,3-Trichlorobenzene	20.7	0.50	ug/L	20.00		103	70-130			
1,2,3-Trichloropropane	18.1	0.50	ug/L	20.00		90	70-130			
1,2,4-Trichlorobenzene	21.6	0.50	ug/L	20.00		108	70-130			
1,2,4-Trimethylbenzene	21.5	0.50	ug/L	20.00		108	70-130			
1,2-Dibromo-3-chloropropane	20.1	2.0	ug/L	20.00		100	70-130			
1,2-Dibromoethane	21.1	0.50	ug/L	20.00		106	70-130			
1,2-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	70-130			
1,2-Dichloroethane	20.3	0.50	ug/L	20.00		102	70-130			
1,2-Dichloropropane	19.3	0.50	ug/L	20.00		97	70-130			
1,3,5-Trimethylbenzene	22.1	0.50	ug/L	20.00		110	70-130			
1,3-Dichlorobenzene	20.7	0.50	ug/L	20.00		103	70-130			
1,3-Dichloropropane	19.2	0.50	ug/L	20.00		96	70-130			
1,4-Dichlorobenzene	20.2	0.50	ug/L	20.00		101	70-130			
2,2-Dichloropropane	21.4	2.0	ug/L	20.00		107	70-130			
2-Chlorotoluene	20.8	0.50	ug/L	20.00		104	70-130			
4-Chlorotoluene	20.3	0.50	ug/L	20.00		101	70-130			
4-Isopropyltoluene	21.9	0.50	ug/L	20.00		110	70-130			
Acetone	42.5	10	ug/L	40.00		106	40-160			
Benzene	21.2	0.50	ug/L	20.00		106	70-130			
Bromobenzene	19.2	0.50	ug/L	20.00		96	70-130			
Bromochloromethane	21.3	0.50	ug/L	20.00		107	70-130			
Bromodichloromethane	18.5	0.50	ug/L	20.00		93	70-130			
Bromoform	18.5	0.50	ug/L	20.00		92	70-130			
Bromomethane	16.6	1.0	ug/L	20.00		83	60-140			
Carbon Tetrachloride	19.7	0.50	ug/L	20.00		98	70-130			
Chlorobenzene	20.3	0.50	ug/L	20.00		102	70-130			
Chloroethane	18.7	0.50	ug/L	20.00		94	60-140			
Chloroform	18.4	0.50	ug/L	20.00		92	70-130			
Chloromethane	15.6	0.50	ug/L	20.00		78	60-140			
cis-1,2-Dichloroethylene	19.7	0.50	ug/L	20.00		99	70-130			
cis-1,3-Dichloropropylene	20.4	0.50	ug/L	20.00		102	70-130			
Dibromochloromethane	18.4	0.50	ug/L	20.00		92	70-130			
Dibromomethane	18.6	0.50	ug/L	20.00		93	70-130			
Dichlorodifluoromethane	11.5	1.0	ug/L	20.00		57	60-140			A
Ethanol	530	200	ug/L	500.0		106	60-140			
Ethylbenzene	20.9	0.50	ug/L	20.00		104	70-130			
Hexachlorobutadiene	22.1	2.0	ug/L	20.00		110	70-130			
Isopropyl Ether	17.4	0.50	ug/L	20.00		87	70-130			
Isopropylbenzene (Cumene)	23.0	0.50	ug/L	20.00		115	70-130			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
LCS (P5C0010-BS1)				Prepared & Analyzed: 02/27/15						
m,p-Xylenes	42.7	1.0	ug/L	40.00		107	70-130			
Methyl Butyl Ketone (2-Hexanone)	20.6	1.0	ug/L	20.00		103	60-140			
Methyl Ethyl Ketone (2-Butanone)	20.6	5.0	ug/L	20.00		103	60-140			
Methyl Isobutyl Ketone	19.5	1.0	ug/L	20.00		97	60-140			
Methylene Chloride	20.7	2.0	ug/L	20.00		103	70-130			
Methyl-tert-Butyl Ether	20.0	1.0	ug/L	20.00		100	70-130			
Naphthalene	20.3	1.0	ug/L	20.00		102	70-130			
n-Butylbenzene	22.4	0.50	ug/L	20.00		112	70-130			
n-Propylbenzene	22.3	0.50	ug/L	20.00		111	70-130			
o-Xylene	21.5	0.50	ug/L	20.00		108	70-130			
sec-Butylbenzene	21.0	0.50	ug/L	20.00		105	70-130			
Styrene	21.9	0.50	ug/L	20.00		109	70-130			
tert-Amyl Alcohol	11.8	10	ug/L	20.00		59	70-130			L1
tert-Amyl Methyl Ether	40.7	10	ug/L	40.00		102	70-130			
tert-Butyl Alcohol	35.6	10	ug/L	40.00		89	70-130			
tert-Butylbenzene	21.8	0.50	ug/L	20.00		109	70-130			
tert-Butyl Ethyl Ether	40.4	10	ug/L	40.00		101	70-130			
tert-Butyl Formate	38.0	10	ug/L	40.00		95	70-130			
Tetrachloroethylene	19.5	0.50	ug/L	20.00		98	70-130			
Toluene	20.6	0.50	ug/L	20.00		103	70-130			
trans-1,2-Dichloroethylene	21.0	0.50	ug/L	20.00		105	70-130			
trans-1,3-Dichloropropylene	20.7	0.50	ug/L	20.00		104	70-130			
Trichloroethylene	20.5	0.50	ug/L	20.00		103	70-130			
Trichlorofluoromethane	21.3	0.50	ug/L	20.00		107	60-140			
Vinyl acetate	22.0	5.0	ug/L	20.00		110	60-140			
Vinyl chloride	18.1	0.50	ug/L	20.00		90	60-140			
Xylenes, total	64.2	1.5	ug/L	60.00		107	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/L*	*25.00*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*25.0*		*ug/L*	*25.00*		*100*	*70-130*			
Surrogate: Toluene-d8	*25.2*		*ug/L*	*25.00*		*101*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
LCS Dup (P5C0010-BSD1)				Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	20.2	0.50	ug/L	20.00		101	70-130	2	20	
1,1,1-Trichloroethane	21.6	0.50	ug/L	20.00		108	70-130	3	20	
1,1,2,2-Tetrachloroethane	19.8	0.50	ug/L	20.00		99	70-130	8	20	
1,1,2-Trichloroethane	20.3	0.50	ug/L	20.00		101	70-130	2	20	
1,1-Dichloroethane	19.9	0.50	ug/L	20.00		100	70-130	5	20	
1,1-Dichloroethylene	21.4	0.50	ug/L	20.00		107	70-130	2	20	
1,1-Dichloropropylene	22.7	0.50	ug/L	20.00		114	70-130	2	20	
1,2,3-Trichlorobenzene	21.3	0.50	ug/L	20.00		107	70-130	3	20	
1,2,3-Trichloropropane	18.6	0.50	ug/L	20.00		93	70-130	3	20	
1,2,4-Trichlorobenzene	21.7	0.50	ug/L	20.00		109	70-130	0.5	20	
1,2,4-Trimethylbenzene	22.3	0.50	ug/L	20.00		112	70-130	4	20	
1,2-Dibromo-3-chloropropane	20.2	2.0	ug/L	20.00		101	70-130	0.8	20	
1,2-Dibromoethane	20.2	0.50	ug/L	20.00		101	70-130	4	20	
1,2-Dichlorobenzene	20.8	0.50	ug/L	20.00		104	70-130	0.8	20	
1,2-Dichloroethane	19.4	0.50	ug/L	20.00		97	70-130	5	20	
1,2-Dichloropropane	20.5	0.50	ug/L	20.00		103	70-130	6	20	
1,3,5-Trimethylbenzene	22.6	0.50	ug/L	20.00		113	70-130	3	20	
1,3-Dichlorobenzene	20.7	0.50	ug/L	20.00		104	70-130	0.05	20	
1,3-Dichloropropane	20.0	0.50	ug/L	20.00		100	70-130	4	20	
1,4-Dichlorobenzene	20.6	0.50	ug/L	20.00		103	70-130	2	20	
2,2-Dichloropropane	21.1	2.0	ug/L	20.00		106	70-130	1	20	
2-Chlorotoluene	20.7	0.50	ug/L	20.00		104	70-130	0.5	20	
4-Chlorotoluene	21.2	0.50	ug/L	20.00		106	70-130	4	20	
4-Isopropyltoluene	22.8	0.50	ug/L	20.00		114	70-130	4	20	
Acetone	43.7	10	ug/L	40.00		109	40-160	3	20	
Benzene	21.6	0.50	ug/L	20.00		108	70-130	2	20	
Bromobenzene	19.9	0.50	ug/L	20.00		99	70-130	3	20	
Bromochloromethane	21.0	0.50	ug/L	20.00		105	70-130	1	20	
Bromodichloromethane	19.4	0.50	ug/L	20.00		97	70-130	5	20	
Bromoform	18.2	0.50	ug/L	20.00		91	70-130	1	20	
Bromomethane	16.5	1.0	ug/L	20.00		83	60-140	0.7	20	
Carbon Tetrachloride	21.3	0.50	ug/L	20.00		107	70-130	8	20	
Chlorobenzene	20.5	0.50	ug/L	20.00		102	70-130	0.8	20	
Chloroethane	18.7	0.50	ug/L	20.00		94	60-140	0.05	20	
Chloroform	19.0	0.50	ug/L	20.00		95	70-130	3	20	
Chloromethane	16.2	0.50	ug/L	20.00		81	60-140	4	20	
cis-1,2-Dichloroethylene	20.8	0.50	ug/L	20.00		104	70-130	5	20	
cis-1,3-Dichloropropylene	21.2	0.50	ug/L	20.00		106	70-130	4	20	
Dibromochloromethane	18.9	0.50	ug/L	20.00		94	70-130	2	20	
Dibromomethane	19.6	0.50	ug/L	20.00		98	70-130	5	20	
Dichlorodifluoromethane	11.3	1.0	ug/L	20.00		56	60-140	2	20	A
Ethanol	630	200	ug/L	500.0		126	60-140	17	20	
Ethylbenzene	21.0	0.50	ug/L	20.00		105	70-130	0.9	20	
Hexachlorobutadiene	21.5	2.0	ug/L	20.00		107	70-130	3	20	
Isopropyl Ether	18.2	0.50	ug/L	20.00		91	70-130	4	20	
Isopropylbenzene (Cumene)	23.2	0.50	ug/L	20.00		116	70-130	1	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
LCS Dup (P5C0010-BSD1)				Prepared & Analyzed: 02/27/15						
m,p-Xylenes	44.2	1.0	ug/L	40.00		110	70-130	3	20	
Methyl Butyl Ketone (2-Hexanone)	22.3	1.0	ug/L	20.00		112	60-140	8	20	
Methyl Ethyl Ketone (2-Butanone)	19.5	5.0	ug/L	20.00		98	60-140	5	20	
Methyl Isobutyl Ketone	20.9	1.0	ug/L	20.00		105	60-140	7	20	
Methylene Chloride	21.2	2.0	ug/L	20.00		106	70-130	3	20	
Methyl-tert-Butyl Ether	20.5	1.0	ug/L	20.00		102	70-130	2	20	
Naphthalene	20.8	1.0	ug/L	20.00		104	70-130	2	20	
n-Butylbenzene	22.6	0.50	ug/L	20.00		113	70-130	1	20	
n-Propylbenzene	22.6	0.50	ug/L	20.00		113	70-130	2	20	
o-Xylene	22.2	0.50	ug/L	20.00		111	70-130	3	20	
sec-Butylbenzene	21.6	0.50	ug/L	20.00		108	70-130	3	20	
Styrene	22.2	0.50	ug/L	20.00		111	70-130	1	20	
tert-Amyl Alcohol	22.6	10	ug/L	20.00		113	70-130	63	20	D
tert-Amyl Methyl Ether	42.8	10	ug/L	40.00		107	70-130	5	20	
tert-Butyl Alcohol	32.5	10	ug/L	40.00		81	70-130	9	20	
tert-Butylbenzene	21.9	0.50	ug/L	20.00		110	70-130	0.5	20	
tert-Butyl Ethyl Ether	42.4	10	ug/L	40.00		106	70-130	5	20	
tert-Butyl Formate	42.2	10	ug/L	40.00		105	70-130	10	20	
Tetrachloroethylene	20.7	0.50	ug/L	20.00		103	70-130	6	20	
Toluene	21.2	0.50	ug/L	20.00		106	70-130	3	20	
trans-1,2-Dichloroethylene	21.5	0.50	ug/L	20.00		108	70-130	2	20	
trans-1,3-Dichloropropylene	21.1	0.50	ug/L	20.00		106	70-130	2	20	
Trichloroethylene	21.5	0.50	ug/L	20.00		107	70-130	5	20	
Trichlorofluoromethane	22.7	0.50	ug/L	20.00		113	60-140	6	20	
Vinyl acetate	22.5	5.0	ug/L	20.00		113	60-140	3	20	
Vinyl chloride	18.4	0.50	ug/L	20.00		92	60-140	2	20	
Xylenes, total	66.4	1.5	ug/L	60.00		111	70-130	3	20	
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/L*	*25.00*		*103*	*70-130*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/L*	*25.00*		*100*	*70-130*			
Surrogate: Toluene-d8	*25.0*		*ug/L*	*25.00*		*100*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
Matrix Spike (P5C0010-MS1)	**Source: 5020450-01**			Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	191	5.0	ug/L	200.0	BRL	96	70-130			
1,1,1-Trichloroethane	190	5.0	ug/L	200.0	BRL	95	70-130			
1,1,2,2-Tetrachloroethane	181	5.0	ug/L	200.0	BRL	91	70-130			
1,1,2-Trichloroethane	202	5.0	ug/L	200.0	BRL	101	70-130			
1,1-Dichloroethane	183	5.0	ug/L	200.0	BRL	92	70-130			
1,1-Dichloroethylene	204	5.0	ug/L	200.0	BRL	102	70-130			
1,1-Dichloropropylene	216	5.0	ug/L	200.0	BRL	108	70-130			
1,2,3-Trichlorobenzene	194	5.0	ug/L	200.0	BRL	97	70-130			
1,2,3-Trichloropropane	182	5.0	ug/L	200.0	BRL	91	70-130			
1,2,4-Trichlorobenzene	195	5.0	ug/L	200.0	BRL	97	70-130			
1,2,4-Trimethylbenzene	202	5.0	ug/L	200.0	BRL	101	70-130			
1,2-Dibromo-3-chloropropane	192	20	ug/L	200.0	BRL	96	70-130			
1,2-Dibromoethane	198	5.0	ug/L	200.0	BRL	99	70-130			
1,2-Dichlorobenzene	196	5.0	ug/L	200.0	BRL	98	70-130			
1,2-Dichloroethane	195	5.0	ug/L	200.0	BRL	98	70-130			
1,2-Dichloropropane	192	5.0	ug/L	200.0	BRL	96	70-130			
1,3,5-Trimethylbenzene	209	5.0	ug/L	200.0	BRL	104	70-130			
1,3-Dichlorobenzene	193	5.0	ug/L	200.0	BRL	96	70-130			
1,3-Dichloropropane	199	5.0	ug/L	200.0	BRL	100	70-130			
1,4-Dichlorobenzene	190	5.0	ug/L	200.0	BRL	95	70-130			
2,2-Dichloropropane	188	20	ug/L	200.0	BRL	94	70-130			
2-Chlorotoluene	194	5.0	ug/L	200.0	BRL	97	70-130			
4-Chlorotoluene	195	5.0	ug/L	200.0	BRL	97	70-130			
4-Isopropyltoluene	203	5.0	ug/L	200.0	BRL	102	70-130			
Acetone	427	100	ug/L	400.0	10.1	104	40-160			
Benzene	197	5.0	ug/L	200.0	BRL	98	70-130			
Bromobenzene	191	5.0	ug/L	200.0	BRL	95	70-130			
Bromochloromethane	202	5.0	ug/L	200.0	BRL	101	70-130			
Bromodichloromethane	174	5.0	ug/L	200.0	BRL	87	70-130			
Bromoform	185	5.0	ug/L	200.0	BRL	92	70-130			
Bromomethane	119	10	ug/L	200.0	BRL	60	60-140			
Carbon Tetrachloride	186	5.0	ug/L	200.0	BRL	93	70-130			
Chlorobenzene	201	5.0	ug/L	200.0	BRL	100	70-130			
Chloroethane	157	5.0	ug/L	200.0	BRL	78	60-140			
Chloroform	173	5.0	ug/L	200.0	BRL	87	70-130			
Chloromethane	137	5.0	ug/L	200.0	BRL	68	60-140			
cis-1,2-Dichloroethylene	198	5.0	ug/L	200.0	BRL	99	70-130			
cis-1,3-Dichloropropylene	198	5.0	ug/L	200.0	BRL	99	70-130			
Dibromochloromethane	184	5.0	ug/L	200.0	BRL	92	70-130			
Dibromomethane	184	5.0	ug/L	200.0	BRL	92	70-130			
Dichlorodifluoromethane	93.1	10	ug/L	200.0	BRL	47	60-140			M
Ethanol	5700	2000	ug/L	5000	BRL	114	60-140			
Ethylbenzene	203	5.0	ug/L	200.0	BRL	101	70-130			
Hexachlorobutadiene	186	20	ug/L	200.0	BRL	93	70-130			
Isopropyl Ether	171	5.0	ug/L	200.0	1.83	85	70-130			
Isopropylbenzene (Cumene)	215	5.0	ug/L	200.0	BRL	107	70-130			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
Matrix Spike (P5C0010-MS1)	**Source: 5020450-01**			Prepared & Analyzed: 02/27/15						
m,p-Xylenes	421	10	ug/L	400.0	BRL	105	70-130			
Methyl Butyl Ketone (2-Hexanone)	195	10	ug/L	200.0	BRL	97	60-140			
Methyl Ethyl Ketone (2-Butanone)	209	50	ug/L	200.0	5.47	102	60-140			
Methyl Isobutyl Ketone	191	10	ug/L	200.0	BRL	96	60-140			
Methylene Chloride	204	20	ug/L	200.0	BRL	102	70-130			
Methyl-tert-Butyl Ether	204	10	ug/L	200.0	13.7	95	70-130			
Naphthalene	191	10	ug/L	200.0	BRL	96	70-130			
n-Butylbenzene	209	5.0	ug/L	200.0	BRL	105	70-130			
n-Propylbenzene	212	5.0	ug/L	200.0	BRL	106	70-130			
o-Xylene	208	5.0	ug/L	200.0	BRL	104	70-130			
sec-Butylbenzene	200	5.0	ug/L	200.0	BRL	100	70-130			
Styrene	206	5.0	ug/L	200.0	BRL	103	70-130			
tert-Amyl Alcohol	242	100	ug/L	200.0	BRL	121	70-130			
tert-Amyl Methyl Ether	398	100	ug/L	400.0	BRL	99	70-130			
tert-Butyl Alcohol	368	100	ug/L	400.0	BRL	92	70-130			
tert-Butylbenzene	206	5.0	ug/L	200.0	BRL	103	70-130			
tert-Butyl Ethyl Ether	388	100	ug/L	400.0	BRL	97	70-130			
tert-Butyl Formate	196	100	ug/L	400.0	BRL	49	70-130			M
Tetrachloroethylene	189	5.0	ug/L	200.0	BRL	94	70-130			
Toluene	203	5.0	ug/L	200.0	BRL	102	70-130			
trans-1,2-Dichloroethylene	202	5.0	ug/L	200.0	BRL	101	70-130			
trans-1,3-Dichloropropylene	188	5.0	ug/L	200.0	BRL	94	70-130			
Trichloroethylene	208	5.0	ug/L	200.0	BRL	104	70-130			
Trichlorofluoromethane	200	5.0	ug/L	200.0	BRL	100	60-140			
Vinyl acetate	214	50	ug/L	200.0	BRL	107	60-140			
Vinyl chloride	166	5.0	ug/L	200.0	BRL	83	60-140			
Xylenes, total	629	15	ug/L	600.0	BRL	105	70-130			
Surrogate: 4-Bromofluorobenzene	*25.5*		*ug/L*	*25.00*		*102*	*70-130*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/L*	*25.00*		*101*	*70-130*			
Surrogate: Toluene-d8	*25.8*		*ug/L*	*25.00*		*103*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
Matrix Spike Dup (P5C0010-MSD1)	**Source: 5020450-01**			Prepared & Analyzed: 02/27/15						
1,1,1,2-Tetrachloroethane	195	5.0	ug/L	200.0	BRL	98	70-130	2	20	
1,1,1-Trichloroethane	204	5.0	ug/L	200.0	BRL	102	70-130	7	20	
1,1,2,2-Tetrachloroethane	178	5.0	ug/L	200.0	BRL	89	70-130	2	20	
1,1,2-Trichloroethane	194	5.0	ug/L	200.0	BRL	97	70-130	4	20	
1,1-Dichloroethane	191	5.0	ug/L	200.0	BRL	96	70-130	4	20	
1,1-Dichloroethylene	208	5.0	ug/L	200.0	BRL	104	70-130	2	20	
1,1-Dichloropropylene	221	5.0	ug/L	200.0	BRL	111	70-130	2	20	
1,2,3-Trichlorobenzene	198	5.0	ug/L	200.0	BRL	99	70-130	2	20	
1,2,3-Trichloropropane	179	5.0	ug/L	200.0	BRL	89	70-130	2	20	
1,2,4-Trichlorobenzene	202	5.0	ug/L	200.0	BRL	101	70-130	3	20	
1,2,4-Trimethylbenzene	212	5.0	ug/L	200.0	BRL	106	70-130	5	20	
1,2-Dibromo-3-chloropropane	192	20	ug/L	200.0	BRL	96	70-130	0.3	20	
1,2-Dibromoethane	195	5.0	ug/L	200.0	BRL	98	70-130	1	20	
1,2-Dichlorobenzene	202	5.0	ug/L	200.0	BRL	101	70-130	3	20	
1,2-Dichloroethane	195	5.0	ug/L	200.0	BRL	98	70-130	0.05	20	
1,2-Dichloropropane	197	5.0	ug/L	200.0	BRL	98	70-130	3	20	
1,3,5-Trimethylbenzene	214	5.0	ug/L	200.0	BRL	107	70-130	3	20	
1,3-Dichlorobenzene	198	5.0	ug/L	200.0	BRL	99	70-130	3	20	
1,3-Dichloropropane	189	5.0	ug/L	200.0	BRL	94	70-130	6	20	
1,4-Dichlorobenzene	197	5.0	ug/L	200.0	BRL	98	70-130	4	20	
2,2-Dichloropropane	187	20	ug/L	200.0	BRL	93	70-130	0.7	20	
2-Chlorotoluene	206	5.0	ug/L	200.0	BRL	103	70-130	6	20	
4-Chlorotoluene	207	5.0	ug/L	200.0	BRL	103	70-130	6	20	
4-Isopropyltoluene	222	5.0	ug/L	200.0	BRL	111	70-130	9	20	
Acetone	387	100	ug/L	400.0	10.1	94	40-160	10	20	
Benzene	209	5.0	ug/L	200.0	BRL	104	70-130	6	20	
Bromobenzene	189	5.0	ug/L	200.0	BRL	94	70-130	1	20	
Bromochloromethane	216	5.0	ug/L	200.0	BRL	108	70-130	7	20	
Bromodichloromethane	174	5.0	ug/L	200.0	BRL	87	70-130	0.2	20	
Bromoform	178	5.0	ug/L	200.0	BRL	89	70-130	4	20	
Bromomethane	142	10	ug/L	200.0	BRL	71	60-140	18	20	
Carbon Tetrachloride	197	5.0	ug/L	200.0	BRL	98	70-130	6	20	
Chlorobenzene	200	5.0	ug/L	200.0	BRL	100	70-130	0.6	20	
Chloroethane	166	5.0	ug/L	200.0	BRL	83	60-140	6	20	
Chloroform	183	5.0	ug/L	200.0	BRL	91	70-130	5	20	
Chloromethane	145	5.0	ug/L	200.0	BRL	72	60-140	5	20	
cis-1,2-Dichloroethylene	205	5.0	ug/L	200.0	BRL	102	70-130	4	20	
cis-1,3-Dichloropropylene	199	5.0	ug/L	200.0	BRL	100	70-130	0.7	20	
Dibromochloromethane	188	5.0	ug/L	200.0	BRL	94	70-130	2	20	
Dibromomethane	179	5.0	ug/L	200.0	BRL	90	70-130	3	20	
Dichlorodifluoromethane	96.3	10	ug/L	200.0	BRL	48	60-140	3	20	M
Ethanol	5320	2000	ug/L	5000	BRL	106	60-140	7	20	
Ethylbenzene	204	5.0	ug/L	200.0	BRL	102	70-130	0.8	20	
Hexachlorobutadiene	206	20	ug/L	200.0	BRL	103	70-130	10	20	
Isopropyl Ether	174	5.0	ug/L	200.0	1.83	86	70-130	2	20	
Isopropylbenzene (Cumene)	226	5.0	ug/L	200.0	BRL	113	70-130	5	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0010 - SM6200 B										
Matrix Spike Dup (P5C0010-MSD1)	**Source: 5020450-01**			Prepared & Analyzed: 02/27/15						
m,p-Xylenes	425	10	ug/L	400.0	BRL	106	70-130	1	20	
Methyl Butyl Ketone (2-Hexanone)	188	10	ug/L	200.0	BRL	94	60-140	3	20	
Methyl Ethyl Ketone (2-Butanone)	209	50	ug/L	200.0	5.47	102	60-140	0.1	20	
Methyl Isobutyl Ketone	179	10	ug/L	200.0	BRL	89	60-140	7	20	
Methylene Chloride	199	20	ug/L	200.0	BRL	99	70-130	2	20	
Methyl-tert-Butyl Ether	203	10	ug/L	200.0	13.7	94	70-130	0.5	20	
Naphthalene	200	10	ug/L	200.0	BRL	100	70-130	4	20	
n-Butylbenzene	222	5.0	ug/L	200.0	BRL	111	70-130	6	21	
n-Propylbenzene	221	5.0	ug/L	200.0	BRL	110	70-130	4	18	
o-Xylene	209	5.0	ug/L	200.0	BRL	104	70-130	0.2	20	
sec-Butylbenzene	207	5.0	ug/L	200.0	BRL	104	70-130	3	20	
Styrene	213	5.0	ug/L	200.0	BRL	106	70-130	3	20	
tert-Amyl Alcohol	119	100	ug/L	200.0	BRL	59	70-130	68	20	M
tert-Amyl Methyl Ether	399	100	ug/L	400.0	BRL	100	70-130	0.3	20	
tert-Butyl Alcohol	350	100	ug/L	400.0	BRL	88	70-130	5	20	
tert-Butylbenzene	216	5.0	ug/L	200.0	BRL	108	70-130	5	20	
tert-Butyl Ethyl Ether	400	100	ug/L	400.0	BRL	100	70-130	3	20	
tert-Butyl Formate	152	100	ug/L	400.0	BRL	38	70-130	26	20	M
Tetrachloroethylene	195	5.0	ug/L	200.0	BRL	97	70-130	3	20	
Toluene	205	5.0	ug/L	200.0	BRL	103	70-130	0.9	20	
trans-1,2-Dichloroethylene	219	5.0	ug/L	200.0	BRL	109	70-130	8	20	
trans-1,3-Dichloropropylene	196	5.0	ug/L	200.0	BRL	98	70-130	4	20	
Trichloroethylene	219	5.0	ug/L	200.0	BRL	109	70-130	5	20	
Trichlorofluoromethane	212	5.0	ug/L	200.0	BRL	106	60-140	6	20	
Vinyl acetate	204	50	ug/L	200.0	BRL	102	60-140	5	20	
Vinyl chloride	182	5.0	ug/L	200.0	BRL	91	60-140	9	20	
Xylenes, total	634	15	ug/L	600.0	BRL	106	70-130	0.8	20	
Surrogate: 4-Bromofluorobenzene	*26.1*		*ug/L*	*25.00*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*24.8*		*ug/L*	*25.00*		*99*	*70-130*			
Surrogate: Toluene-d8	*24.5*		*ug/L*	*25.00*		*98*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
Blank (P5C0008-BLK1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitrophenol	BRL	50	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Benzidine	BRL	100	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
Blank (P5C0008-BLK1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitrosodimethylamine	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Tentatively Identified Compounds	Not Detected		ug/L							
Surrogate: 2,4,6-Tribromophenol	*78.8*		*ug/L*	*100.0*		*79*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*44.9*		*ug/L*	*50.00*		*90*	*49-118*			
Surrogate: 2-Fluorophenol	*55.1*		*ug/L*	*100.0*		*55*	*22-84*			
Surrogate: Nitrobenzene-d5	*52.7*		*ug/L*	*50.00*		*105*	*43-123*			
Surrogate: Phenol-d5	*34.5*		*ug/L*	*100.0*		*35*	*10-63*			
Surrogate: Terphenyl-d14	*57.1*		*ug/L*	*50.00*		*114*	*49-151*			
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	68.3	10	ug/L	100.0		68	44-142			
1,2-Dichlorobenzene	68.0	10	ug/L	100.0		68	32-129			
1,3-Dichlorobenzene	64.4	10	ug/L	100.0		64	20-124			
1,4-Dichlorobenzene	64.8	10	ug/L	100.0		65	20-124			
1-Methylnaphthalene	73.1	10	ug/L	100.0		73	40-135			
2,4,6-Trichlorophenol	88.0	10	ug/L	100.0		88	37-144			
2,4-Dichlorophenol	70.1	10	ug/L	100.0		70	39-135			
2,4-Dimethylphenol	69.7	10	ug/L	100.0		70	32-119			
2,4-Dinitrophenol	69.5	10	ug/L	100.0		70	10-191			
2,4-Dinitrotoluene	108	10	ug/L	100.0		108	39-139			
2,6-Dinitrotoluene	109	10	ug/L	100.0		109	50-158			
2-Chloronaphthalene	116	10	ug/L	100.0		116	60-118			
2-Chlorophenol	62.6	10	ug/L	100.0		63	23-134			
2-Methylnaphthalene	73.6	10	ug/L	100.0		74	18-121			
2-Nitrophenol	65.4	10	ug/L	100.0		65	29-182			
3,3'-Dichlorobenzidine	109	10	ug/L	100.0		109	10-262			
3/4-Methylphenol	63.6	10	ug/L	100.0		64	76-107			L
4,6-Dinitro-2-methylphenol	93.1	10	ug/L	100.0		93	10-181			
4-Bromophenyl phenyl ether	96.0	10	ug/L	100.0		96	53-127			
4-Chloro-3-methylphenol	80.6	10	ug/L	100.0		81	22-147			
4-Chloroaniline	86.9	10	ug/L	100.0		87	44-163			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
4-Chlorophenyl phenyl ether	95.1	10	ug/L	100.0		95	25-158			
4-Nitrophenol	44.5	50	ug/L	100.0		45	10-132			J
Acenaphthene	91.5	10	ug/L	100.0		91	47-145			
Acenaphthylene	91.0	10	ug/L	100.0		91	33-145			
Anthracene	99.9	10	ug/L	100.0		100	27-133			
Benzidine	189	100	ug/L	100.0		189	15-150			LH
Benzo(a)anthracene	99.9	10	ug/L	100.0		100	33-143			
Benzo(a)pyrene	136	10	ug/L	100.0		136	17-163			
Benzo(b)fluoranthene	134	10	ug/L	100.0		134	24-159			
Benzo(g,h,i)perylene	135	10	ug/L	100.0		135	10-219			
Benzo(k)fluoranthene	134	10	ug/L	100.0		134	11-162			
Benzoic Acid	19.9	100	ug/L	100.0		20	10-125			J
Benzyl alcohol	55.4	10	ug/L	100.0		55	16-107			
bis(2-Chloroethoxy)methane	69.8	10	ug/L	100.0		70	33-184			
Bis(2-Chloroethyl)ether	69.2	10	ug/L	100.0		69	12-158			
Bis(2-chloroisopropyl)ether	63.5	10	ug/L	100.0		63	36-166			
Bis(2-Ethylhexyl)phthalate	102	10	ug/L	100.0		102	10-158			
Butyl benzyl phthalate	96.5	10	ug/L	100.0		96	10-152			
Chrysene	105	10	ug/L	100.0		105	17-168			
Dibenzo(a,h)anthracene	139	10	ug/L	100.0		139	10-227			
Dibenzofuran	90.5	10	ug/L	100.0		90	39-114			
Diethyl phthalate	86.7	10	ug/L	100.0		87	10-114			
Dimethyl phthalate	66.0	10	ug/L	100.0		66	10-112			
Di-n-butyl phthalate	96.6	10	ug/L	100.0		97	10-118			
Di-n-octyl phthalate	132	10	ug/L	100.0		132	10-146			
Fluoranthene	97.1	10	ug/L	100.0		97	26-137			
Fluorene	94.2	10	ug/L	100.0		94	59-121			
Hexachlorobenzene	102	10	ug/L	100.0		102	10-152			
Hexachlorobutadiene	66.0	10	ug/L	100.0		66	24-116			
Hexachlorocyclopentadiene	73.6	10	ug/L	100.0		74	32-117			
Hexachloroethane	63.0	10	ug/L	100.0		63	40-113			
Indeno(1,2,3-cd)pyrene	144	10	ug/L	100.0		144	10-171			
Isophorone	84.6	10	ug/L	100.0		85	21-196			
Naphthalene	67.1	10	ug/L	100.0		67	21-133			
Nitrobenzene	72.9	10	ug/L	100.0		73	35-180			
N-Nitrosodimethylamine	46.7	10	ug/L	100.0		47	10-119			
N-Nitroso-di-n-propylamine	74.4	10	ug/L	100.0		74	10-230			
N-Nitrosodiphenylamine	99.9	10	ug/L	100.0		100	69-152			
Pentachlorophenol	94.3	10	ug/L	100.0		94	14-176			
Phenanthrene	96.8	10	ug/L	100.0		97	54-120			
Phenol	34.9	10	ug/L	100.0		35	10-112			
Pyrene	99.3	10	ug/L	100.0		99	52-115			
Surrogate: 2,4,6-Tribromophenol	*92.3*		*ug/L*	*100.0*		*92*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*47.5*		*ug/L*	*50.00*		*95*	*49-118*			
Surrogate: 2-Fluorophenol	*46.8*		*ug/L*	*100.0*		*47*	*22-84*			
Surrogate: Nitrobenzene-d5	*37.3*		*ug/L*	*50.00*		*75*	*43-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Surrogate: Phenol-d5	*30.1*		*ug/L*	*100.0*		*30*	*10-63*			
Surrogate: Terphenyl-d14	*59.5*		*ug/L*	*50.00*		*119*	*49-151*			
LCS Dup (P5C0008-BSD1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	81.0	10	ug/L	100.0		81	44-142	17	20	
1,2-Dichlorobenzene	81.0	10	ug/L	100.0		81	32-129	17	20	
1,3-Dichlorobenzene	77.8	10	ug/L	100.0		78	20-124	19	20	
1,4-Dichlorobenzene	76.8	10	ug/L	100.0		77	20-124	17	20	
1-Methylnaphthalene	79.9	10	ug/L	100.0		80	40-135	9	20	
2,4,6-Trichlorophenol	88.7	10	ug/L	100.0		89	37-144	0.7	20	
2,4-Dichlorophenol	78.2	10	ug/L	100.0		78	39-135	11	20	
2,4-Dimethylphenol	76.3	10	ug/L	100.0		76	32-119	9	20	
2,4-Dinitrophenol	79.8	10	ug/L	100.0		80	10-191	14	20	
2,4-Dinitrotoluene	112	10	ug/L	100.0		112	39-139	3	20	
2,6-Dinitrotoluene	115	10	ug/L	100.0		115	50-158	5	20	
2-Chloronaphthalene	121	10	ug/L	100.0		121	60-118	4	20	L2
2-Chlorophenol	75.3	10	ug/L	100.0		75	23-134	18	20	
2-Methylnaphthalene	83.2	10	ug/L	100.0		83	18-121	12	20	
2-Nitrophenol	75.1	10	ug/L	100.0		75	29-182	14	20	
3,3'-Dichlorobenzidine	116	10	ug/L	100.0		116	10-262	7	20	
3/4-Methylphenol	73.4	10	ug/L	100.0		73	76-107	14	20	L
4,6-Dinitro-2-methylphenol	100	10	ug/L	100.0		100	10-181	7	20	
4-Bromophenyl phenyl ether	100	10	ug/L	100.0		100	53-127	5	20	
4-Chloro-3-methylphenol	83.1	10	ug/L	100.0		83	22-147	3	20	
4-Chloroaniline	95.7	10	ug/L	100.0		96	44-163	10	20	
4-Chlorophenyl phenyl ether	96.4	10	ug/L	100.0		96	25-158	1	20	
4-Nitrophenol	48.0	50	ug/L	100.0		48	10-132	7	20	J
Acenaphthene	94.9	10	ug/L	100.0		95	47-145	4	20	
Acenaphthylene	93.0	10	ug/L	100.0		93	33-145	2	20	
Anthracene	103	10	ug/L	100.0		103	27-133	3	20	
Benzidine	203	100	ug/L	100.0		203	15-150	7	20	LH
Benzo(a)anthracene	107	10	ug/L	100.0		107	33-143	7	20	
Benzo(a)pyrene	142	10	ug/L	100.0		142	17-163	5	20	
Benzo(b)fluoranthene	137	10	ug/L	100.0		137	24-159	2	20	
Benzo(g,h,i)perylene	140	10	ug/L	100.0		140	10-219	4	20	
Benzo(k)fluoranthene	143	10	ug/L	100.0		143	11-162	7	20	
Benzoic Acid	25.0	100	ug/L	100.0		25	10-125	23	20	D, J
Benzyl alcohol	68.1	10	ug/L	100.0		68	16-107	21	20	D
bis(2-Chloroethoxy)methane	80.6	10	ug/L	100.0		81	33-184	14	20	
Bis(2-Chloroethyl)ether	85.0	10	ug/L	100.0		85	12-158	21	20	D
Bis(2-chloroisopropyl)ether	75.8	10	ug/L	100.0		76	36-166	18	20	
Bis(2-Ethylhexyl)phthalate	105	10	ug/L	100.0		105	10-158	2	20	
Butyl benzyl phthalate	102	10	ug/L	100.0		102	10-152	6	20	
Chrysene	111	10	ug/L	100.0		111	17-168	6	20	
Dibenzo(a,h)anthracene	143	10	ug/L	100.0		143	10-227	3	20	
Dibenzofuran	91.3	10	ug/L	100.0		91	39-114	0.9	20	
Diethyl phthalate	89.3	10	ug/L	100.0		89	10-114	3	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS Dup (P5C0008-BSD1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Dimethyl phthalate	64.7	10	ug/L	100.0		65	10-112	2	20	
Di-n-butyl phthalate	101	10	ug/L	100.0		101	10-118	4	20	
Di-n-octyl phthalate	138	10	ug/L	100.0		138	10-146	4	20	
Fluoranthene	102	10	ug/L	100.0		102	26-137	5	20	
Fluorene	97.7	10	ug/L	100.0		98	59-121	4	20	
Hexachlorobenzene	107	10	ug/L	100.0		107	10-152	4	20	
Hexachlorobutadiene	79.2	10	ug/L	100.0		79	24-116	18	20	
Hexachlorocyclopentadiene	84.6	10	ug/L	100.0		85	32-117	14	20	
Hexachloroethane	75.0	10	ug/L	100.0		75	40-113	17	20	
Indeno(1,2,3-cd)pyrene	151	10	ug/L	100.0		151	10-171	4	20	
Isophorone	90.9	10	ug/L	100.0		91	21-196	7	20	
Naphthalene	79.3	10	ug/L	100.0		79	21-133	17	20	
Nitrobenzene	86.2	10	ug/L	100.0		86	35-180	17	20	
N-Nitrosodimethylamine	53.6	10	ug/L	100.0		54	10-119	14	20	
N-Nitroso-di-n-propylamine	87.6	10	ug/L	100.0		88	10-230	16	20	
N-Nitrosodiphenylamine	104	10	ug/L	100.0		104	69-152	4	20	
Pentachlorophenol	96.2	10	ug/L	100.0		96	14-176	2	20	
Phenanthrene	99.8	10	ug/L	100.0		100	54-120	3	20	
Phenol	42.0	10	ug/L	100.0		42	10-112	18	20	
Pyrene	105	10	ug/L	100.0		105	52-115	6	20	
Surrogate: 2,4,6-Tribromophenol	*93.6*		*ug/L*	*100.0*		*94*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*49.5*		*ug/L*	*50.00*		*99*	*49-118*			
Surrogate: 2-Fluorophenol	*53.9*		*ug/L*	*100.0*		*54*	*22-84*			
Surrogate: Nitrobenzene-d5	*44.2*		*ug/L*	*50.00*		*88*	*43-123*			
Surrogate: Phenol-d5	*36.0*		*ug/L*	*100.0*		*36*	*10-63*			
Surrogate: Terphenyl-d14	*60.8*		*ug/L*	*50.00*		*122*	*49-151*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0048 - MADEP VPH (W)										
Blank (P5C0048-BLK1)				Prepared & Analyzed: 03/03/15						
C5-C8 Aliphatics	BRL	50	ug/L							
C9-C12 Aliphatics	BRL	50	ug/L							
C9-C10 Aromatics	BRL	50	ug/L							
Surrogate: 2,5-Dibromotoluene (PID)	*87.2*		*ug/L*	*100.0*		*87*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*91.3*		*ug/L*	*100.0*		*91*	*70-130*			
LCS (P5C0048-BS1)				Prepared & Analyzed: 03/03/15						
C5-C8 Aliphatics	338	50	ug/L	300.0		113	70-130			
C9-C10 Aromatics	97.1	50	ug/L	100.0		97	70-130			
C9-C12 Aliphatic	344	50	ug/L	300.0		115	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*94.3*		*ug/L*	*100.0*		*94*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*97.6*		*ug/L*	*100.0*		*98*	*70-130*			
LCS Dup (P5C0048-BSD1)				Prepared & Analyzed: 03/03/15						
C5-C8 Aliphatics	330	50	ug/L	300.0		110	70-130	2	50	
C9-C10 Aromatics	94.8	50	ug/L	100.0		95	70-130	2	50	
C9-C12 Aliphatic	341	50	ug/L	300.0		114	70-130	1	50	
Surrogate: 2,5-Dibromotoluene (PID)	*90.7*		*ug/L*	*100.0*		*91*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*93.9*		*ug/L*	*100.0*		*94*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0062 - MADEP EPH (W)										
Blank (P5C0062-BLK1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	BRL	100	ug/L							
C19-C36 Aliphatics	BRL	100	ug/L							
C11-C22 Aromatics	BRL	100	ug/L							
Surrogate: 1-Chlorooctadecane	*16.9*		*ug/L*	*20.00*		*85*	*40-140*			
Surrogate: o-Terphenyl	*18.5*		*ug/L*	*20.00*		*92*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*35.4*		*ug/L*	*40.00*		*88*	*40-140*			
Surrogate: 2-Bromonaphthalene	*32.8*		*ug/L*	*40.00*		*82*	*40-140*			
LCS (P5C0062-BS1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	379	100	ug/L	600.0		63	40-140			
C19-C36 Aliphatics	771	100	ug/L	800.0		96	40-140			
C11-C22 Aromatics	1350	100	ug/L	1700		79	40-140			
Surrogate: 1-Chlorooctadecane	*18.1*		*ug/L*	*20.00*		*91*	*40-140*			
Surrogate: o-Terphenyl	*18.4*		*ug/L*	*20.00*		*92*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*39.1*		*ug/L*	*40.00*		*98*	*40-140*			
Surrogate: 2-Bromonaphthalene	*37.8*		*ug/L*	*40.00*		*94*	*40-140*			
LCS Dup (P5C0062-BSD1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	249	100	ug/L	600.0		41	40-140	41	50	
C19-C36 Aliphatics	516	100	ug/L	800.0		65	40-140	40	50	
C11-C22 Aromatics	1050	100	ug/L	1700		62	40-140	25	50	
Surrogate: 1-Chlorooctadecane	*13.4*		*ug/L*	*20.00*		*67*	*40-140*			
Surrogate: o-Terphenyl	*14.5*		*ug/L*	*20.00*		*72*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*40.3*		*ug/L*	*40.00*		*101*	*40-140*			
Surrogate: 2-Bromonaphthalene	*33.9*		*ug/L*	*40.00*		*85*	*40-140*			
Matrix Spike (P5C0062-MS1)	**Source: 5020450-04**			Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	786	200	ug/L	1200	BRL	65	40-140			
C19-C36 Aliphatics	1400	200	ug/L	1600	BRL	88	40-140			
C11-C22 Aromatics	2780	200	ug/L	3400	BRL	82	40-140			
Surrogate: 1-Chlorooctadecane	*38.8*		*ug/L*	*40.00*		*97*	*40-140*			
Surrogate: o-Terphenyl	*40.9*		*ug/L*	*40.00*		*102*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*78.0*		*ug/L*	*80.00*		*98*	*40-140*			
Surrogate: 2-Bromonaphthalene	*77.1*		*ug/L*	*80.00*		*96*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0062 - MADEP EPH (W)										
Matrix Spike Dup (P5C0062-MSD1)	**Source: 5020450-04**			Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	714	200	ug/L	1200	BRL	59	40-140	10	50	
C19-C36 Aliphatics	1390	200	ug/L	1600	BRL	87	40-140	1	50	
C11-C22 Aromatics	2980	200	ug/L	3400	BRL	88	40-140	7	50	
Surrogate: 1-Chlorooctadecane	*35.8*		*ug/L*	*40.00*		*90*	*40-140*			
Surrogate: o-Terphenyl	*42.3*		*ug/L*	*40.00*		*106*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*76.5*		*ug/L*	*80.00*		*96*	*40-140*			
Surrogate: 2-Bromonaphthalene	*76.5*		*ug/L*	*80.00*		*96*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5020450
Time Submitted: 2/25/2015 4:55:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0002 - 3010A										
Blank (P5C0002-BLK1)				Prepared: 03/02/15 Analyzed: 03/03/15						
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
LCS (P5C0002-BS1)				Prepared: 03/02/15 Analyzed: 03/03/15						
Chromium	0.258	0.0050	mg/L	0.2500		103	80-120			
Lead	0.256	0.0050	mg/L	0.2500		102	80-120			

Sample Extraction Data

Prep Method: MADEP EPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5020450-04	P5C0062	1000 mL	2 mL	03/04/15 11:00
5020450-10	P5C0062	1000 mL	2 mL	03/04/15 11:00

Prep Method: 625

Lab Number	Batch	Initial	Final	Date/Time
5020450-04	P5C0008	1000 mL	1 mL	03/02/15 12:35
5020450-10	P5C0008	1000 mL	1 mL	03/02/15 12:35

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
5020450-01	P5C0002	50 mL	50 mL	03/02/15 8:10
5020450-02	P5C0002	50 mL	50 mL	03/02/15 8:10
5020450-03	P5C0002	50 mL	50 mL	03/02/15 8:10
5020450-05	P5C0002	50 mL	50 mL	03/02/15 8:10
5020450-06	P5C0002	50 mL	50 mL	03/02/15 8:10
5020450-07	P5C0002	50 mL	50 mL	03/02/15 8:10
5020450-08	P5C0002	50 mL	50 mL	03/02/15 8:10
5020450-10	P5C0002	50 mL	50 mL	03/02/15 8:10

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
5020450-01	P5C0010	10 mL	10 mL	02/27/15 10:46
5020450-02	P5C0010	10 mL	10 mL	02/27/15 10:46
5020450-03	P5C0010	10 mL	10 mL	02/27/15 10:46
5020450-05	P5C0010	10 mL	10 mL	02/27/15 10:46
5020450-06	P5C0010	10 mL	10 mL	02/27/15 10:46
5020450-08	P5C0010	10 mL	10 mL	02/27/15 10:46
5020450-08	P5C0010	10 mL	10 mL	02/27/15 10:46
5020450-09	P5C0010	10 mL	10 mL	02/27/15 10:46
5020450-10	P5C0010	10 mL	10 mL	02/27/15 10:46

Prep Method: MADEP VPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5020450-01	P5C0048	44 mL	44 mL	03/03/15 14:39
5020450-02	P5C0048	44 mL	44 mL	03/03/15 14:39
5020450-03	P5C0048	44 mL	44 mL	03/03/15 14:39
5020450-05	P5C0048	44 mL	44 mL	03/03/15 14:39
5020450-06	P5C0048	44 mL	44 mL	03/03/15 14:39
5020450-08	P5C0048	44 mL	44 mL	03/03/15 14:39
5020450-10	P5C0048	44 mL	44 mL	03/03/15 14:39

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Charlotte Airport Rental Car Sites
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Michelle Friedman
Address: 5925 Carnegie Blvd, Suite 300 Charlotte, NC 28209
Purchase Order No./Billing Reference 60340233

Client Company Name: AECOM
Report To/Contact Name: James McDonnan
Reporting Address: 6000 Fairview Rd Suite 200 Charlotte NC 28210
Phone: 7045220330 Fax (Yes) (No): _____
Email Address: jim.mcdonnan@aecom.com
EDD Type: PDF____ Excel____ Other_____
Site Location Name: Rental Car Facilities
Site Location Physical Address: _____

Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days
"Working Days" ❑ 6-9 Days ☒ Standard 10 days ❑ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR1-10 Observed: 6.1 °C / Corr: 4.7 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL_____ NC X
SC____ OTHER_____ N/A_____
Water Chlorinated: YES___ NO X
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED: VOCs EDB	MADEP VPH	Lead	SVOCs 10 TICs EDB	EPH	MADEP	Cr and PL	REMARKS	PRISM LAB ID NO.
Advantage TMW-1	2/25/15	1000	Water	VOA/P	6/1	—	HCl/HNO_3	X	X	X					Low Boiling Point fuels	01
Advantage TMW-2		0925		VOA/P	6/1	—	HCl/HNO_3	X	X	X						02
Advantage TMW-4		0945		VOA/P	4/1	—	HCl/HNO_3	X	X	X						03
Advantage TMW-5		1105		A	4	—	HCl + None				X	X			Heavy Fuels	04
Budget TMW-3		1315		VOA/P	4/1	—	HCl/HNO_3	X	X	X					Low Boiling Point fuels	05
Budget TMW-4		1335		VOA/P	4/1	—	HCl/HNO_3	X	X	X						06
Budget TMW-5		1310		P	1	—	HNO_3	X	X	X					Did not receive VPH + 6200 vials ok Received on 2/20/15 mag/MRW	07
Budget TMW-6		1305		VOA/P	4/1	—	HCl/HNO_3	X	X	X						08
DUP-3		0800		VOA	3	—	HCl	X							—	09
AVIS TMW-1		1510		VOA/A/P	6/4/1	—	HCl/NaOH HCl/HNO_3	X	X		X	X	X		med to High Boiling Point Fuels	10

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature _____ Sampled By (Print Name) Matthew Stone Affiliation AECOM

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date	
		2-25-15	1655

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
❑ Fed Ex ❑ UPS ☒ Hand-delivered ❑ Prism Field Service ❑ Other _____
COC Group No. 502045

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC
❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/18/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 02/27/2015
Prism Work Order: 5030013

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

This is a Revised Report and supercedes the original laboratory report dated 3/10/15. Method 602 analyte list has been revised to match NCDENR UST Section Target Analyte List.
Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones

President/Project Manager

Reviewed By Robbi A. Jones

President/Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L	Parameter reported with possible low bias. LCS recovery below the QC limit.
L2	LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

03/18/2015

Prism Work Order: 5030013

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Hertz MW-5R	5030013-01	Water	02/27/15	02/27/15
Advantage TMW-3	5030013-02	Water	02/27/15	02/27/15
Dollar TMW-1	5030013-03	Water	02/27/15	02/27/15
Dollar TMW-2	5030013-04	Water	02/27/15	02/27/15
Dollar TMW-4	5030013-05	Water	02/27/15	02/27/15
Dollar TMW-5	5030013-06	Water	02/27/15	02/27/15
Dup-4	5030013-07	Water	02/27/15	02/27/15
Trip Blank	5030013-08	Water	02/27/15	02/27/15

Samples were received in good condition at 4.2 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/18/2015

Prism Work Order: 5030013

Prism ID	Client ID	Parameter	Method	Result		Units
5030013-02	Advantage TMW-3	4-Isopropyltoluene	SM6200 B	0.52		ug/L
5030013-02	Advantage TMW-3	Acetone	SM6200 B	54		ug/L
5030013-02	Advantage TMW-3	Ethylbenzene	SM6200 B	1.0		ug/L
5030013-02	Advantage TMW-3	Isopropyl Ether	SM6200 B	0.88		ug/L
5030013-02	Advantage TMW-3	m,p-Xylenes	SM6200 B	0.84	J	ug/L
5030013-02	Advantage TMW-3	Methyl Ethyl Ketone (2-Butanone)	SM6200 B	9.0		ug/L
5030013-02	Advantage TMW-3	Methyl-tert-Butyl Ether	SM6200 B	5.2		ug/L
5030013-02	Advantage TMW-3	n-Propylbenzene	SM6200 B	0.96		ug/L
5030013-02	Advantage TMW-3	Toluene	SM6200 B	0.96		ug/L
5030013-02	Advantage TMW-3	Xylenes, total	SM6200 B	0.84	J	ug/L
5030013-02	Advantage TMW-3	C5-C8 Aliphatics	MADEP VPH	15	J	ug/L
5030013-02	Advantage TMW-3	C9-C12 Aliphatics	MADEP VPH	38	J	ug/L
5030013-02	Advantage TMW-3	C9-C10 Aromatics	MADEP VPH	9.3	J	ug/L
5030013-03	Dollar TMW-1	Lead	*6010C	0.023		mg/L
5030013-03	Dollar TMW-1	Chloroform	SM6200 B	0.76		ug/L
5030013-03	Dollar TMW-1	m,p-Xylenes	SM6200 B	0.62	J	ug/L
5030013-03	Dollar TMW-1	Methyl-tert-Butyl Ether	SM6200 B	1.2		ug/L
5030013-03	Dollar TMW-1	Xylenes, total	SM6200 B	0.62	J	ug/L
5030013-04	Dollar TMW-2	m,p-Xylenes	SM6200 B	0.87	J	ug/L
5030013-04	Dollar TMW-2	Toluene	SM6200 B	0.52		ug/L
5030013-04	Dollar TMW-2	Xylenes, total	SM6200 B	0.87	J	ug/L
5030013-05	Dollar TMW-4	Diethyl phthalate	625	65		ug/L
5030013-06	Dollar TMW-5	m,p-Xylenes	SM6200 B	1.7	J	ug/L
5030013-06	Dollar TMW-5	o-Xylene	SM6200 B	0.71	J	ug/L
5030013-06	Dollar TMW-5	Toluene	SM6200 B	1.9		ug/L
5030013-06	Dollar TMW-5	Xylenes, total	SM6200 B	2.4	J	ug/L
5030013-07	Dup-4	m,p-Xylenes	SM6200 B	0.74	J	ug/L
5030013-07	Dup-4	Xylenes, total	SM6200 B	0.74	J	ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Hertz MW-5R
Prism Sample ID: 5030013-01
Prism Work Order: 5030013
Time Collected: 02/27/15 08:20
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	3/4/15 0:24	BGM	P5C0027

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-3
Prism Sample ID: 5030013-02
Prism Work Order: 5030013
Time Collected: 02/27/15 08:40
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	3/4/15 0:49	BGM	P5C0027
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
4-Isopropyltoluene	**0.52**	**ug/L**	**0.50**	**0.089**	**1**	**SM6200 B**	**3/4/15 17:46**	**VHL**	**P5C0088**
Acetone	**54**	**ug/L**	**10**	**0.31**	**1**	**SM6200 B**	**3/4/15 17:46**	**VHL**	**P5C0088**
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/4/15 17:46	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-3
Prism Sample ID: 5030013-02
Prism Work Order: 5030013
Time Collected: 02/27/15 08:40
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Ethylbenzene	**1.0**	**ug/L**	**0.50**	**0.061**	**1**	**SM6200 B**	**3/4/15 17:46**	**VHL**	**P5C0088**
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Isopropyl Ether	**0.88**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**3/4/15 17:46**	**VHL**	**P5C0088**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
m,p-Xylenes	**0.84 J**	**ug/L**	**1.0**	**0.12**	**1**	**SM6200 B**	**3/4/15 17:46**	**VHL**	**P5C0088**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Methyl Ethyl Ketone (2-Butanone)	**9.0**	**ug/L**	**5.0**	**0.24**	**1**	**SM6200 B**	**3/4/15 17:46**	**VHL**	**P5C0088**
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Methyl-tert-Butyl Ether	**5.2**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**3/4/15 17:46**	**VHL**	**P5C0088**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
n-Propylbenzene	**0.96**	**ug/L**	**0.50**	**0.087**	**1**	**SM6200 B**	**3/4/15 17:46**	**VHL**	**P5C0088**
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Toluene	**0.96**	**ug/L**	**0.50**	**0.044**	**1**	**SM6200 B**	**3/4/15 17:46**	**VHL**	**P5C0088**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/4/15 17:46	VHL	P5C0088
Xylenes, total	**0.84 J**	**ug/L**	**1.5**	**0.15**	**1**	**SM6200 B**	**3/4/15 17:46**	**VHL**	**P5C0088**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*70-130*
Dibromofluoromethane	*100 %*	*70-130*
Toluene-d8	*106 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**15 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/3/15 22:38**	**ANG**	**P5C0048**
C9-C12 Aliphatics	**38 J**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**3/3/15 22:38**	**ANG**	**P5C0048**
C9-C10 Aromatics	**9.3 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**3/3/15 22:38**	**ANG**	**P5C0048**

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Advantage TMW-3
Prism Sample ID: 5030013-02
Prism Work Order: 5030013
Time Collected: 02/27/15 08:40
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (PID)							*107 %*	*70-130*	
2,5-Dibromotoluene (FID)							*112 %*	*70-130*	

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-1
Prism Sample ID: 5030013-03
Prism Work Order: 5030013
Time Collected: 02/27/15 10:25
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	**0.023**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**3/4/15 0:56**	**BGM**	**P5C0027**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Chloroform	**0.76**	**ug/L**	**0.50**	**0.076**	**1**	**SM6200 B**	**3/4/15 18:20**	**VHL**	**P5C0088**
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/4/15 18:20	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-1
Prism Sample ID: 5030013-03
Prism Work Order: 5030013
Time Collected: 02/27/15 10:25
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
m,p-Xylenes	**0.62 J**	**ug/L**	**1.0**	**0.12**	**1**	**SM6200 B**	**3/4/15 18:20**	**VHL**	**P5C0088**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Methyl-tert-Butyl Ether	**1.2**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**3/4/15 18:20**	**VHL**	**P5C0088**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/4/15 18:20	VHL	P5C0088
Xylenes, total	**0.62 J**	**ug/L**	**1.5**	**0.15**	**1**	**SM6200 B**	**3/4/15 18:20**	**VHL**	**P5C0088**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*70-130*
Dibromofluoromethane	*108 %*	*70-130*
Toluene-d8	*105 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	3/3/15 23:11	ANG	P5C0048
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	3/3/15 23:11	ANG	P5C0048
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	3/3/15 23:11	ANG	P5C0048

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*95 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-1
Prism Sample ID: 5030013-03
Prism Work Order: 5030013
Time Collected: 02/27/15 10:25
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (FID)						*100 %*		*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-2
Prism Sample ID: 5030013-04
Prism Work Order: 5030013
Time Collected: 02/27/15 11:30
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	3/4/15 1:04	BGM	P5C0027
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/4/15 18:54	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-2
Prism Sample ID: 5030013-04
Prism Work Order: 5030013
Time Collected: 02/27/15 11:30
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
m,p-Xylenes	**0.87 J**	**ug/L**	**1.0**	**0.12**	**1**	**SM6200 B**	**3/4/15 18:54**	**VHL**	**P5C0088**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Toluene	**0.52**	**ug/L**	**0.50**	**0.044**	**1**	**SM6200 B**	**3/4/15 18:54**	**VHL**	**P5C0088**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/4/15 18:54	VHL	P5C0088
Xylenes, total	**0.87 J**	**ug/L**	**1.5**	**0.15**	**1**	**SM6200 B**	**3/4/15 18:54**	**VHL**	**P5C0088**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*105 %*	*70-130*
Dibromofluoromethane	*104 %*	*70-130*
Toluene-d8	*106 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	3/3/15 23:43	ANG	P5C0048
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	3/3/15 23:43	ANG	P5C0048
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	3/3/15 23:43	ANG	P5C0048

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*90 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-2
Prism Sample ID: 5030013-04
Prism Work Order: 5030013
Time Collected: 02/27/15 11:30
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (FID)							*95 %*	*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-4
Prism Sample ID: 5030013-05
Prism Work Order: 5030013
Time Collected: 02/27/15 13:40
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/6/15 13:48	KC	P5C0062
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/6/15 13:48	KC	P5C0062
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/6/15 13:48	KC	P5C0062

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*65 %*	*40-140*
o-Terphenyl	*86 %*	*40-140*
2-Fluorobiphenyl	*94 %*	*40-140*
2-Bromonaphthalene	*93 %*	*40-140*

Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 22:46	KC	P5C0008
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 22:46	KC	P5C0008
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 22:46	KC	P5C0008
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 22:46	KC	P5C0008
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/4/15 22:46	KC	P5C0008
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 22:46	KC	P5C0008
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 22:46	KC	P5C0008
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/4/15 22:46	KC	P5C0008
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/4/15 22:46	KC	P5C0008
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	3/4/15 22:46	KC	P5C0008
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/4/15 22:46	KC	P5C0008
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/4/15 22:46	KC	P5C0008
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 22:46	KC	P5C0008
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 22:46	KC	P5C0008
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/4/15 22:46	KC	P5C0008
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/4/15 22:46	KC	P5C0008
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/4/15 22:46	KC	P5C0008
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/4/15 22:46	KC	P5C0008
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
Anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
Benzidine	BRL	ug/L	100	2.9	1	625	3/4/15 22:46	KC	P5C0008
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/4/15 22:46	KC	P5C0008
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/4/15 22:46	KC	P5C0008
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/4/15 22:46	KC	P5C0008
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/4/15 22:46	KC	P5C0008
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/4/15 22:46	KC	P5C0008

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-4
Prism Sample ID: 5030013-05
Prism Work Order: 5030013
Time Collected: 02/27/15 13:40
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/4/15 22:46	KC	P5C0008
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/4/15 22:46	KC	P5C0008
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/4/15 22:46	KC	P5C0008
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/4/15 22:46	KC	P5C0008
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 22:46	KC	P5C0008
Chrysene	BRL	ug/L	10	1.4	1	625	3/4/15 22:46	KC	P5C0008
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
Diethyl phthalate	**65**	**ug/L**	**10**	**0.98**	**1**	**625**	**3/4/15 22:46**	**KC**	**P5C0008**
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 22:46	KC	P5C0008
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/4/15 22:46	KC	P5C0008
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/4/15 22:46	KC	P5C0008
Fluorene	BRL	ug/L	10	1.5	1	625	3/4/15 22:46	KC	P5C0008
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/4/15 22:46	KC	P5C0008
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/4/15 22:46	KC	P5C0008
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/4/15 22:46	KC	P5C0008
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/4/15 22:46	KC	P5C0008
Isophorone	BRL	ug/L	10	1.5	1	625	3/4/15 22:46	KC	P5C0008
Naphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 22:46	KC	P5C0008
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/4/15 22:46	KC	P5C0008
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/4/15 22:46	KC	P5C0008
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/4/15 22:46	KC	P5C0008
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/4/15 22:46	KC	P5C0008
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 22:46	KC	P5C0008
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/4/15 22:46	KC	P5C0008
Phenol	BRL	ug/L	10	0.90	1	625	3/4/15 22:46	KC	P5C0008
Pyrene	BRL	ug/L	10	1.5	1	625	3/4/15 22:46	KC	P5C0008
TIC: Tentatively Identified Compounds	Not Detected	ug/L			1	625	3/4/15 22:46	KC	P5C0008

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*61 %*	*31-144*
2-Fluorobiphenyl	*79 %*	*49-118*
2-Fluorophenol	*44 %*	*22-84*
Nitrobenzene-d5	*89 %*	*43-123*
Phenol-d5	*29 %*	*10-63*
Terphenyl-d14	*97 %*	*49-151*

Volatile Organic 602 Compounds by GC/MS

1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 19:28	VHL	P5C0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 19:28	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 19:28	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-4
Prism Sample ID: 5030013-05
Prism Work Order: 5030013
Time Collected: 02/27/15 13:40
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	3/4/15 19:28	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 19:28	VHL	P5C0088
Ethylbenzene	BRL	ug/L	1.0	0.061	1	SM6200 B	3/4/15 19:28	VHL	P5C0088
m,p-Xylenes	BRL	ug/L	2.0	0.12	1	SM6200 B	3/4/15 19:28	VHL	P5C0088
o-Xylene	BRL	ug/L	1.0	0.044	1	SM6200 B	3/4/15 19:28	VHL	P5C0088
Toluene	BRL	ug/L	1.0	0.044	1	SM6200 B	3/4/15 19:28	VHL	P5C0088
Xylenes, total	BRL	ug/L	3.0	0.15	1	SM6200 B	3/4/15 19:28	VHL	P5C0088

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*114 %*	*70-130*
Dibromofluoromethane	*107 %*	*70-130*
Toluene-d8	*103 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	3/4/15 1:21	ANG	P5C0048
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	3/4/15 1:21	ANG	P5C0048
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	3/4/15 1:21	ANG	P5C0048

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*82 %*	*70-130*
2,5-Dibromotoluene (FID)	*86 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-5
Prism Sample ID: 5030013-06
Prism Work Order: 5030013
Time Collected: 02/27/15 14:30
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/6/15 14:24	KC	P5C0062
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/6/15 14:24	KC	P5C0062
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/6/15 14:24	KC	P5C0062
			Surrogate			Recovery		Control Limits	
			1-Chlorooctadecane			*83 %*		*40-140*	
			o-Terphenyl			*104 %*		*40-140*	
			2-Fluorobiphenyl			*98 %*		*40-140*	
			2-Bromonaphthalene			*82 %*		*40-140*	
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 23:07	KC	P5C0008
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 23:07	KC	P5C0008
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/4/15 23:07	KC	P5C0008
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 23:07	KC	P5C0008
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/4/15 23:07	KC	P5C0008
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 23:07	KC	P5C0008
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/4/15 23:07	KC	P5C0008
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/4/15 23:07	KC	P5C0008
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/4/15 23:07	KC	P5C0008
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	3/4/15 23:07	KC	P5C0008
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/4/15 23:07	KC	P5C0008
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/4/15 23:07	KC	P5C0008
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 23:07	KC	P5C0008
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/4/15 23:07	KC	P5C0008
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/4/15 23:07	KC	P5C0008
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/4/15 23:07	KC	P5C0008
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/4/15 23:07	KC	P5C0008
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/4/15 23:07	KC	P5C0008
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
Anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
Benzidine	BRL	ug/L	100	2.9	1	625	3/4/15 23:07	KC	P5C0008
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/4/15 23:07	KC	P5C0008
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/4/15 23:07	KC	P5C0008
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/4/15 23:07	KC	P5C0008
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/4/15 23:07	KC	P5C0008
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/4/15 23:07	KC	P5C0008

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-5
Prism Sample ID: 5030013-06
Prism Work Order: 5030013
Time Collected: 02/27/15 14:30
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/4/15 23:07	KC	P5C0008
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/4/15 23:07	KC	P5C0008
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/4/15 23:07	KC	P5C0008
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/4/15 23:07	KC	P5C0008
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 23:07	KC	P5C0008
Chrysene	BRL	ug/L	10	1.4	1	625	3/4/15 23:07	KC	P5C0008
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	3/4/15 23:07	KC	P5C0008
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/4/15 23:07	KC	P5C0008
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/4/15 23:07	KC	P5C0008
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/4/15 23:07	KC	P5C0008
Fluorene	BRL	ug/L	10	1.5	1	625	3/4/15 23:07	KC	P5C0008
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/4/15 23:07	KC	P5C0008
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/4/15 23:07	KC	P5C0008
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/4/15 23:07	KC	P5C0008
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/4/15 23:07	KC	P5C0008
Isophorone	BRL	ug/L	10	1.5	1	625	3/4/15 23:07	KC	P5C0008
Naphthalene	BRL	ug/L	10	1.6	1	625	3/4/15 23:07	KC	P5C0008
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/4/15 23:07	KC	P5C0008
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/4/15 23:07	KC	P5C0008
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/4/15 23:07	KC	P5C0008
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/4/15 23:07	KC	P5C0008
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/4/15 23:07	KC	P5C0008
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/4/15 23:07	KC	P5C0008
Phenol	BRL	ug/L	10	0.90	1	625	3/4/15 23:07	KC	P5C0008
Pyrene	BRL	ug/L	10	1.5	1	625	3/4/15 23:07	KC	P5C0008
TIC: Tentatively Identified Compounds	Not Detected	ug/L			1	625	3/4/15 23:07	KC	P5C0008

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*62 %*	*31-144*
2-Fluorobiphenyl	*72 %*	*49-118*
2-Fluorophenol	*41 %*	*22-84*
Nitrobenzene-d5	*80 %*	*43-123*
Phenol-d5	*28 %*	*10-63*
Terphenyl-d14	*99 %*	*49-151*

Volatile Organic 602 Compounds by GC/MS

1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 20:02	VHL	P5C0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 20:02	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 20:02	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-5
Prism Sample ID: 5030013-06
Prism Work Order: 5030013
Time Collected: 02/27/15 14:30
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	3/4/15 20:02	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 20:02	VHL	P5C0088
Ethylbenzene	BRL	ug/L	1.0	0.061	1	SM6200 B	3/4/15 20:02	VHL	P5C0088
m,p-Xylenes	**1.7 J**	**ug/L**	**2.0**	**0.12**	**1**	**SM6200 B**	**3/4/15 20:02**	**VHL**	**P5C0088**
o-Xylene	**0.71 J**	**ug/L**	**1.0**	**0.044**	**1**	**SM6200 B**	**3/4/15 20:02**	**VHL**	**P5C0088**
Toluene	**1.9**	**ug/L**	**1.0**	**0.044**	**1**	**SM6200 B**	**3/4/15 20:02**	**VHL**	**P5C0088**
Xylenes, total	**2.4 J**	**ug/L**	**3.0**	**0.15**	**1**	**SM6200 B**	**3/4/15 20:02**	**VHL**	**P5C0088**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*105 %*	*70-130*
Dibromofluoromethane	*107 %*	*70-130*
Toluene-d8	*105 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	3/4/15 1:53	ANG	P5C0048
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	3/4/15 1:53	ANG	P5C0048
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	3/4/15 1:53	ANG	P5C0048

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*97 %*	*70-130*
2,5-Dibromotoluene (FID)	*102 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dup-4
Prism Sample ID: 5030013-07
Prism Work Order: 5030013
Time Collected: 02/27/15 08:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/4/15 20:36	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dup-4
Prism Sample ID: 5030013-07
Prism Work Order: 5030013
Time Collected: 02/27/15 08:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
m,p-Xylenes	**0.74 J**	**ug/L**	**1.0**	**0.12**	**1**	**SM6200 B**	**3/4/15 20:36**	**VHL**	**P5C0088**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/4/15 20:36	VHL	P5C0088
Xylenes, total	**0.74 J**	**ug/L**	**1.5**	**0.15**	**1**	**SM6200 B**	**3/4/15 20:36**	**VHL**	**P5C0088**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*70-130*
Dibromofluoromethane	*107 %*	*70-130*
Toluene-d8	*104 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5030013-08
Prism Work Order: 5030013
Time Collected: 02/27/15 00:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/4/15 21:10	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 5030013-08
Prism Work Order: 5030013
Time Collected: 02/27/15 00:00
Time Submitted: 02/27/15 16:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/4/15 21:10	VHL	P5C0088
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	3/4/15 21:10	VHL	P5C0088

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*70-130*
Dibromofluoromethane	*105 %*	*70-130*
Toluene-d8	*103 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
Blank (P5C0088-BLK1)				Prepared & Analyzed: 03/04/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	0.50	ug/L							
1,2,4-Trichlorobenzene	BRL	0.50	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	10	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	0.50	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethanol	BRL	200	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
Blank (P5C0088-BLK1)				Prepared & Analyzed: 03/04/15						
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	1.0	ug/L							
Methylene Chloride	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	1.0	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	0.50	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Amyl Alcohol	BRL	10	ug/L							
tert-Amyl Methyl Ether	BRL	10	ug/L							
tert-Butyl Alcohol	BRL	10	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
tert-Butyl Ethyl Ether	BRL	10	ug/L							
tert-Butyl Formate	BRL	10	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	5.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*27.0*		*ug/L*	*25.00*		*108*	*70-130*			
Surrogate: Dibromofluoromethane	*25.8*		*ug/L*	*25.00*		*103*	*70-130*			
Surrogate: Toluene-d8	*25.5*		*ug/L*	*25.00*		*102*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
LCS (P5C0088-BS1)				Prepared & Analyzed: 03/04/15						
1,1,1,2-Tetrachloroethane	19.0	0.50	ug/L	20.00		95	70-130			
1,1,1-Trichloroethane	20.7	0.50	ug/L	20.00		103	70-130			
1,1,2,2-Tetrachloroethane	19.2	0.50	ug/L	20.00		96	70-130			
1,1,2-Trichloroethane	19.4	0.50	ug/L	20.00		97	70-130			
1,1-Dichloroethane	19.9	0.50	ug/L	20.00		99	70-130			
1,1-Dichloroethylene	22.8	0.50	ug/L	20.00		114	70-130			
1,1-Dichloropropylene	22.5	0.50	ug/L	20.00		112	70-130			
1,2,3-Trichlorobenzene	20.7	0.50	ug/L	20.00		104	70-130			
1,2,3-Trichloropropane	18.7	0.50	ug/L	20.00		93	70-130			
1,2,4-Trichlorobenzene	21.6	0.50	ug/L	20.00		108	70-130			
1,2,4-Trimethylbenzene	22.4	0.50	ug/L	20.00		112	70-130			
1,2-Dibromo-3-chloropropane	21.9	2.0	ug/L	20.00		109	70-130			
1,2-Dibromoethane	20.5	0.50	ug/L	20.00		103	70-130			
1,2-Dichlorobenzene	20.9	0.50	ug/L	20.00		105	70-130			
1,2-Dichloroethane	18.6	0.50	ug/L	20.00		93	70-130			
1,2-Dichloropropane	19.1	0.50	ug/L	20.00		95	70-130			
1,3,5-Trimethylbenzene	22.7	0.50	ug/L	20.00		114	70-130			
1,3-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	70-130			
1,3-Dichloropropane	20.3	0.50	ug/L	20.00		102	70-130			
1,4-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	70-130			
2,2-Dichloropropane	21.5	2.0	ug/L	20.00		107	70-130			
2-Chlorotoluene	21.2	0.50	ug/L	20.00		106	70-130			
4-Chlorotoluene	21.5	0.50	ug/L	20.00		107	70-130			
4-Isopropyltoluene	23.3	0.50	ug/L	20.00		117	70-130			
Acetone	39.6	10	ug/L	40.00		99	40-160			
Benzene	21.2	0.50	ug/L	20.00		106	70-130			
Bromobenzene	20.1	0.50	ug/L	20.00		101	70-130			
Bromochloromethane	20.5	0.50	ug/L	20.00		103	70-130			
Bromodichloromethane	17.4	0.50	ug/L	20.00		87	70-130			
Bromoform	18.9	0.50	ug/L	20.00		94	70-130			
Bromomethane	21.1	1.0	ug/L	20.00		105	60-140			
Carbon Tetrachloride	19.9	0.50	ug/L	20.00		100	70-130			
Chlorobenzene	20.3	0.50	ug/L	20.00		102	70-130			
Chloroethane	21.6	0.50	ug/L	20.00		108	60-140			
Chloroform	18.1	0.50	ug/L	20.00		90	70-130			
Chloromethane	22.2	0.50	ug/L	20.00		111	60-140			
cis-1,2-Dichloroethylene	20.2	0.50	ug/L	20.00		101	70-130			
cis-1,3-Dichloropropylene	20.3	0.50	ug/L	20.00		102	70-130			
Dibromochloromethane	18.6	0.50	ug/L	20.00		93	70-130			
Dibromomethane	17.0	0.50	ug/L	20.00		85	70-130			
Dichlorodifluoromethane	22.1	1.0	ug/L	20.00		110	60-140			
Ethanol	600	200	ug/L	500.0		120	60-140			
Ethylbenzene	21.3	0.50	ug/L	20.00		106	70-130			
Hexachlorobutadiene	21.4	2.0	ug/L	20.00		107	70-130			
Isopropyl Ether	18.2	0.50	ug/L	20.00		91	70-130			
Isopropylbenzene (Cumene)	23.5	0.50	ug/L	20.00		117	70-130			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
LCS (P5C0088-BS1)				Prepared & Analyzed: 03/04/15						
m,p-Xylenes	43.5	1.0	ug/L	40.00		109	70-130			
Methyl Butyl Ketone (2-Hexanone)	20.8	1.0	ug/L	20.00		104	60-140			
Methyl Ethyl Ketone (2-Butanone)	19.4	5.0	ug/L	20.00		97	60-140			
Methyl Isobutyl Ketone	19.4	1.0	ug/L	20.00		97	60-140			
Methylene Chloride	22.6	2.0	ug/L	20.00		113	70-130			
Methyl-tert-Butyl Ether	20.2	1.0	ug/L	20.00		101	70-130			
Naphthalene	20.6	1.0	ug/L	20.00		103	70-130			
n-Butylbenzene	23.2	0.50	ug/L	20.00		116	70-130			
n-Propylbenzene	22.8	0.50	ug/L	20.00		114	70-130			
o-Xylene	21.7	0.50	ug/L	20.00		108	70-130			
sec-Butylbenzene	21.8	0.50	ug/L	20.00		109	70-130			
Styrene	21.4	0.50	ug/L	20.00		107	70-130			
tert-Amyl Alcohol	15.0	10	ug/L	20.00		75	70-130			
tert-Amyl Methyl Ether	41.0	10	ug/L	40.00		102	70-130			
tert-Butyl Alcohol	32.8	10	ug/L	40.00		82	70-130			
tert-Butylbenzene	21.8	0.50	ug/L	20.00		109	70-130			
tert-Butyl Ethyl Ether	41.1	10	ug/L	40.00		103	70-130			
tert-Butyl Formate	38.4	10	ug/L	40.00		96	70-130			
Tetrachloroethylene	20.8	0.50	ug/L	20.00		104	70-130			
Toluene	20.5	0.50	ug/L	20.00		103	70-130			
trans-1,2-Dichloroethylene	22.0	0.50	ug/L	20.00		110	70-130			
trans-1,3-Dichloropropylene	19.7	0.50	ug/L	20.00		98	70-130			
Trichloroethylene	21.4	0.50	ug/L	20.00		107	70-130			
Trichlorofluoromethane	21.6	0.50	ug/L	20.00		108	60-140			
Vinyl acetate	23.0	5.0	ug/L	20.00		115	60-140			
Vinyl chloride	23.4	0.50	ug/L	20.00		117	60-140			
Xylenes, total	65.2	1.5	ug/L	60.00		109	70-130			
Surrogate: 4-Bromofluorobenzene	*26.4*		*ug/L*	*25.00*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*25.2*		*ug/L*	*25.00*		*101*	*70-130*			
Surrogate: Toluene-d8	*26.0*		*ug/L*	*25.00*		*104*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
LCS Dup (P5C0088-BSD1)				Prepared & Analyzed: 03/04/15						
1,1,1,2-Tetrachloroethane	18.5	0.50	ug/L	20.00		93	70-130	3	20	
1,1,1-Trichloroethane	19.6	0.50	ug/L	20.00		98	70-130	5	20	
1,1,2,2-Tetrachloroethane	18.3	0.50	ug/L	20.00		92	70-130	4	20	
1,1,2-Trichloroethane	19.0	0.50	ug/L	20.00		95	70-130	2	20	
1,1-Dichloroethane	19.6	0.50	ug/L	20.00		98	70-130	2	20	
1,1-Dichloroethylene	21.4	0.50	ug/L	20.00		107	70-130	7	20	
1,1-Dichloropropylene	21.4	0.50	ug/L	20.00		107	70-130	5	20	
1,2,3-Trichlorobenzene	20.1	0.50	ug/L	20.00		100	70-130	3	20	
1,2,3-Trichloropropane	18.0	0.50	ug/L	20.00		90	70-130	3	20	
1,2,4-Trichlorobenzene	20.1	0.50	ug/L	20.00		101	70-130	7	20	
1,2,4-Trimethylbenzene	21.4	0.50	ug/L	20.00		107	70-130	5	20	
1,2-Dibromo-3-chloropropane	19.7	2.0	ug/L	20.00		98	70-130	11	20	
1,2-Dibromoethane	20.0	0.50	ug/L	20.00		100	70-130	2	20	
1,2-Dichlorobenzene	20.0	0.50	ug/L	20.00		100	70-130	5	20	
1,2-Dichloroethane	18.2	0.50	ug/L	20.00		91	70-130	2	20	
1,2-Dichloropropane	19.0	0.50	ug/L	20.00		95	70-130	0.4	20	
1,3,5-Trimethylbenzene	22.0	0.50	ug/L	20.00		110	70-130	3	20	
1,3-Dichlorobenzene	19.8	0.50	ug/L	20.00		99	70-130	3	20	
1,3-Dichloropropane	19.5	0.50	ug/L	20.00		98	70-130	4	20	
1,4-Dichlorobenzene	19.7	0.50	ug/L	20.00		98	70-130	6	20	
2,2-Dichloropropane	21.2	2.0	ug/L	20.00		106	70-130	1	20	
2-Chlorotoluene	20.5	0.50	ug/L	20.00		103	70-130	3	20	
4-Chlorotoluene	20.2	0.50	ug/L	20.00		101	70-130	6	20	
4-Isopropyltoluene	21.5	0.50	ug/L	20.00		108	70-130	8	20	
Acetone	37.2	10	ug/L	40.00		93	40-160	6	20	
Benzene	21.0	0.50	ug/L	20.00		105	70-130	0.7	20	
Bromobenzene	18.9	0.50	ug/L	20.00		95	70-130	6	20	
Bromochloromethane	20.6	0.50	ug/L	20.00		103	70-130	0.4	20	
Bromodichloromethane	17.3	0.50	ug/L	20.00		86	70-130	1	20	
Bromoform	18.5	0.50	ug/L	20.00		93	70-130	2	20	
Bromomethane	20.0	1.0	ug/L	20.00		100	60-140	5	20	
Carbon Tetrachloride	18.3	0.50	ug/L	20.00		91	70-130	9	20	
Chlorobenzene	20.8	0.50	ug/L	20.00		104	70-130	2	20	
Chloroethane	20.6	0.50	ug/L	20.00		103	60-140	5	20	
Chloroform	17.4	0.50	ug/L	20.00		87	70-130	4	20	
Chloromethane	22.0	0.50	ug/L	20.00		110	60-140	0.9	20	
cis-1,2-Dichloroethylene	20.2	0.50	ug/L	20.00		101	70-130	0.1	20	
cis-1,3-Dichloropropylene	20.2	0.50	ug/L	20.00		101	70-130	0.4	20	
Dibromochloromethane	18.8	0.50	ug/L	20.00		94	70-130	1	20	
Dibromomethane	17.4	0.50	ug/L	20.00		87	70-130	2	20	
Dichlorodifluoromethane	22.1	1.0	ug/L	20.00		110	60-140	0.09	20	
Ethanol	500	200	ug/L	500.0		100	60-140	18	20	
Ethylbenzene	21.0	0.50	ug/L	20.00		105	70-130	1	20	
Hexachlorobutadiene	20.4	2.0	ug/L	20.00		102	70-130	5	20	
Isopropyl Ether	17.8	0.50	ug/L	20.00		89	70-130	2	20	
Isopropylbenzene (Cumene)	22.2	0.50	ug/L	20.00		111	70-130	5	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
LCS Dup (P5C0088-BSD1)				Prepared & Analyzed: 03/04/15						
m,p-Xylenes	42.6	1.0	ug/L	40.00		107	70-130	2	20	
Methyl Butyl Ketone (2-Hexanone)	20.6	1.0	ug/L	20.00		103	60-140	1	20	
Methyl Ethyl Ketone (2-Butanone)	20.2	5.0	ug/L	20.00		101	60-140	4	20	
Methyl Isobutyl Ketone	18.4	1.0	ug/L	20.00		92	60-140	5	20	
Methylene Chloride	21.4	2.0	ug/L	20.00		107	70-130	5	20	
Methyl-tert-Butyl Ether	19.2	1.0	ug/L	20.00		96	70-130	5	20	
Naphthalene	20.2	1.0	ug/L	20.00		101	70-130	2	20	
n-Butylbenzene	21.6	0.50	ug/L	20.00		108	70-130	7	20	
n-Propylbenzene	21.5	0.50	ug/L	20.00		108	70-130	6	20	
o-Xylene	21.3	0.50	ug/L	20.00		106	70-130	2	20	
sec-Butylbenzene	20.3	0.50	ug/L	20.00		101	70-130	7	20	
Styrene	21.3	0.50	ug/L	20.00		106	70-130	0.5	20	
tert-Amyl Alcohol	18.9	10	ug/L	20.00		95	70-130	23	20	D
tert-Amyl Methyl Ether	40.5	10	ug/L	40.00		101	70-130	1	20	
tert-Butyl Alcohol	35.1	10	ug/L	40.00		88	70-130	7	20	
tert-Butylbenzene	21.0	0.50	ug/L	20.00		105	70-130	4	20	
tert-Butyl Ethyl Ether	40.6	10	ug/L	40.00		102	70-130	1	20	
tert-Butyl Formate	34.2	10	ug/L	40.00		85	70-130	12	20	
Tetrachloroethylene	20.3	0.50	ug/L	20.00		101	70-130	2	20	
Toluene	20.1	0.50	ug/L	20.00		100	70-130	2	20	
trans-1,2-Dichloroethylene	21.8	0.50	ug/L	20.00		109	70-130	0.9	20	
trans-1,3-Dichloropropylene	19.4	0.50	ug/L	20.00		97	70-130	1	20	
Trichloroethylene	20.8	0.50	ug/L	20.00		104	70-130	3	20	
Trichlorofluoromethane	20.1	0.50	ug/L	20.00		100	60-140	7	20	
Vinyl acetate	21.4	5.0	ug/L	20.00		107	60-140	7	20	
Vinyl chloride	22.4	0.50	ug/L	20.00		112	60-140	5	20	
Xylenes, total	63.9	1.5	ug/L	60.00		106	70-130	2	20	
Surrogate: 4-Bromofluorobenzene	*26.6*		*ug/L*	*25.00*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*24.8*		*ug/L*	*25.00*		*99*	*70-130*			
Surrogate: Toluene-d8	*26.1*		*ug/L*	*25.00*		*104*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic 602 Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
Blank (P5C0088-BLK1)				Prepared & Analyzed: 03/04/15						
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
Benzene	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Ethylbenzene	BRL	1.0	ug/L							
m,p-Xylenes	BRL	2.0	ug/L							
o-Xylene	BRL	1.0	ug/L							
Toluene	BRL	1.0	ug/L							
Xylenes, total	BRL	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*27.0*		*ug/L*	*25.00*		*108*	*70-130*			
Surrogate: Dibromofluoromethane	*25.8*		*ug/L*	*25.00*		*103*	*70-130*			
Surrogate: Toluene-d8	*25.5*		*ug/L*	*25.00*		*102*	*70-130*			
LCS (P5C0088-BS1)				Prepared & Analyzed: 03/04/15						
1,2-Dichlorobenzene	20.9	0.50	ug/L	20.00		105	70-130			
1,3-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	70-130			
1,4-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	70-130			
Benzene	21.2	0.50	ug/L	20.00		106	70-130			
Chlorobenzene	20.3	0.50	ug/L	20.00		102	70-130			
Ethylbenzene	21.3	1.0	ug/L	20.00		106	70-130			
m,p-Xylenes	43.5	2.0	ug/L	40.00		109	70-130			
o-Xylene	21.7	1.0	ug/L	20.00		108	70-130			
Toluene	20.5	1.0	ug/L	20.00		103	70-130			
Xylenes, total	65.2	3.0	ug/L	60.00		109	70-130			
Surrogate: 4-Bromofluorobenzene	*26.4*		*ug/L*	*25.00*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*25.2*		*ug/L*	*25.00*		*101*	*70-130*			
Surrogate: Toluene-d8	*26.0*		*ug/L*	*25.00*		*104*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Volatile Organic 602 Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
LCS Dup (P5C0088-BSD1)				Prepared & Analyzed: 03/04/15						
1,2-Dichlorobenzene	20.0	0.50	ug/L	20.00		100	70-130	5	20	
1,3-Dichlorobenzene	19.8	0.50	ug/L	20.00		99	70-130	3	20	
1,4-Dichlorobenzene	19.7	0.50	ug/L	20.00		98	70-130	6	20	
Benzene	21.0	0.50	ug/L	20.00		105	70-130	0.7	20	
Chlorobenzene	20.8	0.50	ug/L	20.00		104	70-130	2	20	
Ethylbenzene	21.0	1.0	ug/L	20.00		105	70-130	1	20	
m,p-Xylenes	42.6	2.0	ug/L	40.00		107	70-130	2	20	
o-Xylene	21.3	1.0	ug/L	20.00		106	70-130	2	20	
Toluene	20.1	1.0	ug/L	20.00		100	70-130	2	20	
Xylenes, total	63.9	3.0	ug/L	60.00		106	70-130	2	20	
Surrogate: 4-Bromofluorobenzene	*26.6*		*ug/L*	*25.00*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*24.8*		*ug/L*	*25.00*		*99*	*70-130*			
Surrogate: Toluene-d8	*26.1*		*ug/L*	*25.00*		*104*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
Blank (P5C0008-BLK1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitrophenol	BRL	50	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Benzidine	BRL	100	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
Blank (P5C0008-BLK1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitrosodimethylamine	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Tentatively Identified Compounds	Not Detected		ug/L							
Surrogate: 2,4,6-Tribromophenol	*78.8*		*ug/L*	*100.0*		*79*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*44.9*		*ug/L*	*50.00*		*90*	*49-118*			
Surrogate: 2-Fluorophenol	*55.1*		*ug/L*	*100.0*		*55*	*22-84*			
Surrogate: Nitrobenzene-d5	*52.7*		*ug/L*	*50.00*		*105*	*43-123*			
Surrogate: Phenol-d5	*34.5*		*ug/L*	*100.0*		*35*	*10-63*			
Surrogate: Terphenyl-d14	*57.1*		*ug/L*	*50.00*		*114*	*49-151*			
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	68.3	10	ug/L	100.0		68	44-142			
1,2-Dichlorobenzene	68.0	10	ug/L	100.0		68	32-129			
1,3-Dichlorobenzene	64.4	10	ug/L	100.0		64	20-124			
1,4-Dichlorobenzene	64.8	10	ug/L	100.0		65	20-124			
1-Methylnaphthalene	73.1	10	ug/L	100.0		73	40-135			
2,4,6-Trichlorophenol	88.0	10	ug/L	100.0		88	37-144			
2,4-Dichlorophenol	70.1	10	ug/L	100.0		70	39-135			
2,4-Dimethylphenol	69.7	10	ug/L	100.0		70	32-119			
2,4-Dinitrophenol	69.5	10	ug/L	100.0		70	10-191			
2,4-Dinitrotoluene	108	10	ug/L	100.0		108	39-139			
2,6-Dinitrotoluene	109	10	ug/L	100.0		109	50-158			
2-Chloronaphthalene	116	10	ug/L	100.0		116	60-118			
2-Chlorophenol	62.6	10	ug/L	100.0		63	23-134			
2-Methylnaphthalene	73.6	10	ug/L	100.0		74	18-121			
2-Nitrophenol	65.4	10	ug/L	100.0		65	29-182			
3,3'-Dichlorobenzidine	109	10	ug/L	100.0		109	10-262			
3/4-Methylphenol	63.6	10	ug/L	100.0		64	76-107			L
4,6-Dinitro-2-methylphenol	93.1	10	ug/L	100.0		93	10-181			
4-Bromophenyl phenyl ether	96.0	10	ug/L	100.0		96	53-127			
4-Chloro-3-methylphenol	80.6	10	ug/L	100.0		81	22-147			
4-Chloroaniline	86.9	10	ug/L	100.0		87	44-163			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
4-Chlorophenyl phenyl ether	95.1	10	ug/L	100.0		95	25-158			
4-Nitrophenol	44.5	50	ug/L	100.0		45	10-132			J
Acenaphthene	91.5	10	ug/L	100.0		91	47-145			
Acenaphthylene	91.0	10	ug/L	100.0		91	33-145			
Anthracene	99.9	10	ug/L	100.0		100	27-133			
Benzidine	189	100	ug/L	100.0		189	15-150			LH
Benzo(a)anthracene	99.9	10	ug/L	100.0		100	33-143			
Benzo(a)pyrene	136	10	ug/L	100.0		136	17-163			
Benzo(b)fluoranthene	134	10	ug/L	100.0		134	24-159			
Benzo(g,h,i)perylene	135	10	ug/L	100.0		135	10-219			
Benzo(k)fluoranthene	134	10	ug/L	100.0		134	11-162			
Benzoic Acid	19.9	100	ug/L	100.0		20	10-125			J
Benzyl alcohol	55.4	10	ug/L	100.0		55	16-107			
bis(2-Chloroethoxy)methane	69.8	10	ug/L	100.0		70	33-184			
Bis(2-Chloroethyl)ether	69.2	10	ug/L	100.0		69	12-158			
Bis(2-chloroisopropyl)ether	63.5	10	ug/L	100.0		63	36-166			
Bis(2-Ethylhexyl)phthalate	102	10	ug/L	100.0		102	10-158			
Butyl benzyl phthalate	96.5	10	ug/L	100.0		96	10-152			
Chrysene	105	10	ug/L	100.0		105	17-168			
Dibenzo(a,h)anthracene	139	10	ug/L	100.0		139	10-227			
Dibenzofuran	90.5	10	ug/L	100.0		90	39-114			
Diethyl phthalate	86.7	10	ug/L	100.0		87	10-114			
Dimethyl phthalate	66.0	10	ug/L	100.0		66	10-112			
Di-n-butyl phthalate	96.6	10	ug/L	100.0		97	10-118			
Di-n-octyl phthalate	132	10	ug/L	100.0		132	10-146			
Fluoranthene	97.1	10	ug/L	100.0		97	26-137			
Fluorene	94.2	10	ug/L	100.0		94	59-121			
Hexachlorobenzene	102	10	ug/L	100.0		102	10-152			
Hexachlorobutadiene	66.0	10	ug/L	100.0		66	24-116			
Hexachlorocyclopentadiene	73.6	10	ug/L	100.0		74	32-117			
Hexachloroethane	63.0	10	ug/L	100.0		63	40-113			
Indeno(1,2,3-cd)pyrene	144	10	ug/L	100.0		144	10-171			
Isophorone	84.6	10	ug/L	100.0		85	21-196			
Naphthalene	67.1	10	ug/L	100.0		67	21-133			
Nitrobenzene	72.9	10	ug/L	100.0		73	35-180			
N-Nitrosodimethylamine	46.7	10	ug/L	100.0		47	10-119			
N-Nitroso-di-n-propylamine	74.4	10	ug/L	100.0		74	10-230			
N-Nitrosodiphenylamine	99.9	10	ug/L	100.0		100	69-152			
Pentachlorophenol	94.3	10	ug/L	100.0		94	14-176			
Phenanthrene	96.8	10	ug/L	100.0		97	54-120			
Phenol	34.9	10	ug/L	100.0		35	10-112			
Pyrene	99.3	10	ug/L	100.0		99	52-115			
Surrogate: 2,4,6-Tribromophenol	*92.3*		*ug/L*	*100.0*		*92*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*47.5*		*ug/L*	*50.00*		*95*	*49-118*			
Surrogate: 2-Fluorophenol	*46.8*		*ug/L*	*100.0*		*47*	*22-84*			
Surrogate: Nitrobenzene-d5	*37.3*		*ug/L*	*50.00*		*75*	*43-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS (P5C0008-BS1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Surrogate: Phenol-d5	*30.1*		*ug/L*	*100.0*		*30*	*10-63*			
Surrogate: Terphenyl-d14	*59.5*		*ug/L*	*50.00*		*119*	*49-151*			
LCS Dup (P5C0008-BSD1)				Prepared: 03/02/15 Analyzed: 03/04/15						
1,2,4-Trichlorobenzene	81.0	10	ug/L	100.0		81	44-142	17	20	
1,2-Dichlorobenzene	81.0	10	ug/L	100.0		81	32-129	17	20	
1,3-Dichlorobenzene	77.8	10	ug/L	100.0		78	20-124	19	20	
1,4-Dichlorobenzene	76.8	10	ug/L	100.0		77	20-124	17	20	
1-Methylnaphthalene	79.9	10	ug/L	100.0		80	40-135	9	20	
2,4,6-Trichlorophenol	88.7	10	ug/L	100.0		89	37-144	0.7	20	
2,4-Dichlorophenol	78.2	10	ug/L	100.0		78	39-135	11	20	
2,4-Dimethylphenol	76.3	10	ug/L	100.0		76	32-119	9	20	
2,4-Dinitrophenol	79.8	10	ug/L	100.0		80	10-191	14	20	
2,4-Dinitrotoluene	112	10	ug/L	100.0		112	39-139	3	20	
2,6-Dinitrotoluene	115	10	ug/L	100.0		115	50-158	5	20	
2-Chloronaphthalene	121	10	ug/L	100.0		121	60-118	4	20	L2
2-Chlorophenol	75.3	10	ug/L	100.0		75	23-134	18	20	
2-Methylnaphthalene	83.2	10	ug/L	100.0		83	18-121	12	20	
2-Nitrophenol	75.1	10	ug/L	100.0		75	29-182	14	20	
3,3'-Dichlorobenzidine	116	10	ug/L	100.0		116	10-262	7	20	
3/4-Methylphenol	73.4	10	ug/L	100.0		73	76-107	14	20	L
4,6-Dinitro-2-methylphenol	100	10	ug/L	100.0		100	10-181	7	20	
4-Bromophenyl phenyl ether	100	10	ug/L	100.0		100	53-127	5	20	
4-Chloro-3-methylphenol	83.1	10	ug/L	100.0		83	22-147	3	20	
4-Chloroaniline	95.7	10	ug/L	100.0		96	44-163	10	20	
4-Chlorophenyl phenyl ether	96.4	10	ug/L	100.0		96	25-158	1	20	
4-Nitrophenol	48.0	50	ug/L	100.0		48	10-132	7	20	J
Acenaphthene	94.9	10	ug/L	100.0		95	47-145	4	20	
Acenaphthylene	93.0	10	ug/L	100.0		93	33-145	2	20	
Anthracene	103	10	ug/L	100.0		103	27-133	3	20	
Benzidine	203	100	ug/L	100.0		203	15-150	7	20	LH
Benzo(a)anthracene	107	10	ug/L	100.0		107	33-143	7	20	
Benzo(a)pyrene	142	10	ug/L	100.0		142	17-163	5	20	
Benzo(b)fluoranthene	137	10	ug/L	100.0		137	24-159	2	20	
Benzo(g,h,i)perylene	140	10	ug/L	100.0		140	10-219	4	20	
Benzo(k)fluoranthene	143	10	ug/L	100.0		143	11-162	7	20	
Benzoic Acid	25.0	100	ug/L	100.0		25	10-125	23	20	D, J
Benzyl alcohol	68.1	10	ug/L	100.0		68	16-107	21	20	D
bis(2-Chloroethoxy)methane	80.6	10	ug/L	100.0		81	33-184	14	20	
Bis(2-Chloroethyl)ether	85.0	10	ug/L	100.0		85	12-158	21	20	D
Bis(2-chloroisopropyl)ether	75.8	10	ug/L	100.0		76	36-166	18	20	
Bis(2-Ethylhexyl)phthalate	105	10	ug/L	100.0		105	10-158	2	20	
Butyl benzyl phthalate	102	10	ug/L	100.0		102	10-152	6	20	
Chrysene	111	10	ug/L	100.0		111	17-168	6	20	
Dibenzo(a,h)anthracene	143	10	ug/L	100.0		143	10-227	3	20	
Dibenzofuran	91.3	10	ug/L	100.0		91	39-114	0.9	20	
Diethyl phthalate	89.3	10	ug/L	100.0		89	10-114	3	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0008 - 625										
LCS Dup (P5C0008-BSD1)				Prepared: 03/02/15 Analyzed: 03/04/15						
Dimethyl phthalate	64.7	10	ug/L	100.0		65	10-112	2	20	
Di-n-butyl phthalate	101	10	ug/L	100.0		101	10-118	4	20	
Di-n-octyl phthalate	138	10	ug/L	100.0		138	10-146	4	20	
Fluoranthene	102	10	ug/L	100.0		102	26-137	5	20	
Fluorene	97.7	10	ug/L	100.0		98	59-121	4	20	
Hexachlorobenzene	107	10	ug/L	100.0		107	10-152	4	20	
Hexachlorobutadiene	79.2	10	ug/L	100.0		79	24-116	18	20	
Hexachlorocyclopentadiene	84.6	10	ug/L	100.0		85	32-117	14	20	
Hexachloroethane	75.0	10	ug/L	100.0		75	40-113	17	20	
Indeno(1,2,3-cd)pyrene	151	10	ug/L	100.0		151	10-171	4	20	
Isophorone	90.9	10	ug/L	100.0		91	21-196	7	20	
Naphthalene	79.3	10	ug/L	100.0		79	21-133	17	20	
Nitrobenzene	86.2	10	ug/L	100.0		86	35-180	17	20	
N-Nitrosodimethylamine	53.6	10	ug/L	100.0		54	10-119	14	20	
N-Nitroso-di-n-propylamine	87.6	10	ug/L	100.0		88	10-230	16	20	
N-Nitrosodiphenylamine	104	10	ug/L	100.0		104	69-152	4	20	
Pentachlorophenol	96.2	10	ug/L	100.0		96	14-176	2	20	
Phenanthrene	99.8	10	ug/L	100.0		100	54-120	3	20	
Phenol	42.0	10	ug/L	100.0		42	10-112	18	20	
Pyrene	105	10	ug/L	100.0		105	52-115	6	20	
Surrogate: 2,4,6-Tribromophenol	*93.6*		*ug/L*	*100.0*		*94*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*49.5*		*ug/L*	*50.00*		*99*	*49-118*			
Surrogate: 2-Fluorophenol	*53.9*		*ug/L*	*100.0*		*54*	*22-84*			
Surrogate: Nitrobenzene-d5	*44.2*		*ug/L*	*50.00*		*88*	*43-123*			
Surrogate: Phenol-d5	*36.0*		*ug/L*	*100.0*		*36*	*10-63*			
Surrogate: Terphenyl-d14	*60.8*		*ug/L*	*50.00*		*122*	*49-151*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0048 - MADEP VPH (W)										
Blank (P5C0048-BLK1)				Prepared & Analyzed: 03/03/15						
C5-C8 Aliphatics	BRL	50	ug/L							
C9-C12 Aliphatics	BRL	50	ug/L							
C9-C10 Aromatics	BRL	50	ug/L							
Surrogate: 2,5-Dibromotoluene (PID)	*87.2*		*ug/L*	*100.0*		*87*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*91.3*		*ug/L*	*100.0*		*91*	*70-130*			
LCS (P5C0048-BS1)				Prepared & Analyzed: 03/03/15						
C5-C8 Aliphatics	338	50	ug/L	300.0		113	70-130			
C9-C10 Aromatics	97.1	50	ug/L	100.0		97	70-130			
C9-C12 Aliphatic	344	50	ug/L	300.0		115	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*94.3*		*ug/L*	*100.0*		*94*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*97.6*		*ug/L*	*100.0*		*98*	*70-130*			
LCS Dup (P5C0048-BSD1)				Prepared & Analyzed: 03/03/15						
C5-C8 Aliphatics	330	50	ug/L	300.0		110	70-130	2	50	
C9-C10 Aromatics	94.8	50	ug/L	100.0		95	70-130	2	50	
C9-C12 Aliphatic	341	50	ug/L	300.0		114	70-130	1	50	
Surrogate: 2,5-Dibromotoluene (PID)	*90.7*		*ug/L*	*100.0*		*91*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*93.9*		*ug/L*	*100.0*		*94*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0062 - MADEP EPH (W)										
Blank (P5C0062-BLK1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	BRL	100	ug/L							
C19-C36 Aliphatics	BRL	100	ug/L							
C11-C22 Aromatics	BRL	100	ug/L							
Surrogate: 1-Chlorooctadecane	*16.9*		*ug/L*	*20.00*		*85*	*40-140*			
Surrogate: o-Terphenyl	*18.5*		*ug/L*	*20.00*		*92*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*35.4*		*ug/L*	*40.00*		*88*	*40-140*			
Surrogate: 2-Bromonaphthalene	*32.8*		*ug/L*	*40.00*		*82*	*40-140*			
LCS (P5C0062-BS1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	379	100	ug/L	600.0		63	40-140			
C19-C36 Aliphatics	771	100	ug/L	800.0		96	40-140			
C11-C22 Aromatics	1350	100	ug/L	1700		79	40-140			
Surrogate: 1-Chlorooctadecane	*18.1*		*ug/L*	*20.00*		*91*	*40-140*			
Surrogate: o-Terphenyl	*18.4*		*ug/L*	*20.00*		*92*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*39.1*		*ug/L*	*40.00*		*98*	*40-140*			
Surrogate: 2-Bromonaphthalene	*37.8*		*ug/L*	*40.00*		*94*	*40-140*			
LCS Dup (P5C0062-BSD1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	249	100	ug/L	600.0		41	40-140	41	50	
C19-C36 Aliphatics	516	100	ug/L	800.0		65	40-140	40	50	
C11-C22 Aromatics	1050	100	ug/L	1700		62	40-140	25	50	
Surrogate: 1-Chlorooctadecane	*13.4*		*ug/L*	*20.00*		*67*	*40-140*			
Surrogate: o-Terphenyl	*14.5*		*ug/L*	*20.00*		*72*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*40.3*		*ug/L*	*40.00*		*101*	*40-140*			
Surrogate: 2-Bromonaphthalene	*33.9*		*ug/L*	*40.00*		*85*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030013
Time Submitted: 2/27/2015 4:45:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0027 - 3010A										
Blank (P5C0027-BLK1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Lead	BRL	0.0050	mg/L							
LCS (P5C0027-BS1)				Prepared: 03/03/15 Analyzed: 03/04/15						
Lead	0.260	0.0050	mg/L	0.2500		104	80-120			
Matrix Spike (P5C0027-MS1)		**Source: 5030013-01**		Prepared: 03/03/15 Analyzed: 03/04/15						
Lead	0.247	0.0050	mg/L	0.2500	0.00291	98	75-125			
Matrix Spike Dup (P5C0027-MSD1)		**Source: 5030013-01**		Prepared: 03/03/15 Analyzed: 03/04/15						
Lead	0.250	0.0050	mg/L	0.2500	0.00291	99	75-125	1	20	

Sample Extraction Data

Prep Method: MADEP EPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5030013-05	P5C0062	1000 mL	2 mL	03/04/15 11:00
5030013-06	P5C0062	1000 mL	2 mL	03/04/15 11:00

Prep Method: 625

Lab Number	Batch	Initial	Final	Date/Time
5030013-05	P5C0008	1000 mL	1 mL	03/02/15 13:30
5030013-06	P5C0008	1000 mL	1 mL	03/02/15 13:30

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
5030013-01	P5C0027	50 mL	50 mL	03/03/15 9:45
5030013-02	P5C0027	50 mL	50 mL	03/03/15 9:45
5030013-03	P5C0027	50 mL	50 mL	03/03/15 9:45
5030013-04	P5C0027	50 mL	50 mL	03/03/15 9:45

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
5030013-05	P5C0088	10 mL	10 mL	03/04/15 11:13
5030013-06	P5C0088	10 mL	10 mL	03/04/15 11:13

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
5030013-02	P5C0088	10 mL	10 mL	03/04/15 11:13
5030013-03	P5C0088	10 mL	10 mL	03/04/15 11:13
5030013-04	P5C0088	10 mL	10 mL	03/04/15 11:13
5030013-07	P5C0088	10 mL	10 mL	03/04/15 11:13
5030013-08	P5C0088	10 mL	10 mL	03/04/15 11:13

Prep Method: MADEP VPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5030013-02	P5C0048	44 mL	44 mL	03/03/15 14:39
5030013-03	P5C0048	44 mL	44 mL	03/03/15 14:39
5030013-04	P5C0048	44 mL	44 mL	03/03/15 14:39
5030013-05	P5C0048	44 mL	44 mL	03/03/15 14:39
5030013-06	P5C0048	44 mL	44 mL	03/03/15 14:39

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: ______

Client Company Name: AECOM
Report To/Contact Name: James McDorman
Reporting Address: 6000 Fairview Rd Suite 200, Charlotte, NC 28210
Phone: 704 522 0330 Fax (Yes) (No): ______
Email Address: jim.mcdorman@aecom.com
EDD Type: PDF____ Excel____ Other____
Site Location Name: Rental Car Facilities
Site Location Physical Address: ______

Project Name: Charlotte Airport Rental Car
Short Hold Analysis: (Yes) (No) [No circled] UST Project: (Yes) (NO) [Yes circled]
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Michelle Friedman
Address: 5925 Carnegie Blvd Suite 300, Charlotte, NC 28209
Purchase Order No./Billing Reference 60340238
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	X		
Received ON WET ICE?	X		
PROPER PRESERVATIVES indicated?	X		
Received WITHIN HOLDING TIMES?	X		
CUSTODY SEALS INTACT?			X
VOLATILES rec'd W/OUT HEADSPACE?	X		
PROPER CONTAINERS used?	X		

TEMP: Therm ID: DCT-6 Observed: 5.1 °C / Corr: 4.2 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC X
SC____ OTHER____ N/A____
Water Chlorinated: YES____ NO X
Sample Iced Upon Collection: YES X NO____

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	VOCs 6200B	Pb	MADEP VPH	VOCs + Xylene 602	SVOCs + TICs 625	MADEP EPH		REMARKS	PRISM LAB ID NO.
Hertz MW-5R	2/27/15	0820	Water	P	1	—	HNO_3		X							01
Advantage TMW-3	|	0840	|	VOA/P	4/1	—	HCl/HNO_3	X	X	X						02
Dollar TMW-1	|	1025	|	VOA/P	6/1	—	HCl/HNO_3	X	X	X						03
Dollar TMW-2	|	1130	|	VOA/P	6/1	—	HCl/HNO_3	X	X	X						04
Dollar TMW-4	|	1340	|	VOA/A	6/2	—	HCl/HCl None			X	X	X	X			05
Dollar TMW-5	|	1430	|	VOA/A	6/2	—	HCl/HCl None			X	X	X	X			06
DUP-4	|	0800	|	VOA	3	—	HCl	X								07
Trip Blank	⊥							X							TB	08

Sampler's Signature [signature] Sampled By (Print Name) Matthew Stone Affiliation AECOM

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]	[signature]	2-27-15	1620
[signature] 2-27-15 1645			
	Received For Prism Laboratories By: [signature]	2/27/15	1645

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☒ Prism Field Service ☐ Other

COC Group No. 5030013

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: ☐ NC ☐ SC ☐ ____ UST: ☐ NC ☐ SC ☐ ____ GROUNDWATER: ☐ NC ☐ SC ☐ ____ DRINKING WATER: ☐ NC ☐ SC ☐ ____ SOLID WASTE: ☐ NC ☐ SC ☐ ____ RCRA: ☐ NC ☐ SC ☐ ____ CERCLA ☐ NC ☐ SC ☐ ____ LANDFILL ☐ NC ☐ SC ☐ ____ OTHER: ☐ NC ☐ SC ☐ ____

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

04/15/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 03/02/2015
Prism Work Order: 5030026

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

This is a Revised Report and supercedes the original laboratory report dated 3/12/15. Client added Chromium to Sample ID Dollar-TMW-6.
.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones
President/Project Manager

Reviewed By Robbi A. Jones
President/Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L	Parameter reported with possible low bias. LCS recovery below the QC limit.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Receipt Summary

04/15/2015

Prism Work Order: 5030026

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Dollar TMW-3	5030026-01	Water	03/02/15	03/02/15
Dollar TMW-6	5030026-02	Water	03/02/15	03/02/15
Avis TMW-6	5030026-03	Water	03/02/15	03/02/15
National TMW-2	5030026-04	Water	03/02/15	03/02/15
National TMW-3	5030026-05	Water	03/02/15	03/02/15

Samples were received in good condition at 3.5 degrees C unless otherwise noted.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

04/15/2015

Prism Work Order: 5030026

Prism ID	Client ID	Parameter	Method	Result		Units
5030026-01	Dollar TMW-3	Lead	*6010C	0.0063		mg/L
5030026-01	Dollar TMW-3	Benzene	SM6200 B	6.7		ug/L
5030026-01	Dollar TMW-3	Chloroform	SM6200 B	0.76		ug/L
5030026-01	Dollar TMW-3	Isopropyl Ether	SM6200 B	8.4		ug/L
5030026-01	Dollar TMW-3	m,p-Xylenes	SM6200 B	0.68	J	ug/L
5030026-01	Dollar TMW-3	Methyl-tert-Butyl Ether	SM6200 B	2.6		ug/L
5030026-01	Dollar TMW-3	tert-Amyl Alcohol	SM6200 B	53		ug/L
5030026-01	Dollar TMW-3	tert-Butyl Alcohol	SM6200 B	39		ug/L
5030026-01	Dollar TMW-3	Xylenes, total	SM6200 B	0.68	J	ug/L
5030026-01	Dollar TMW-3	C5-C8 Aliphatics	MADEP VPH	50		ug/L
5030026-01	Dollar TMW-3	C9-C12 Aliphatics	MADEP VPH	14	J	ug/L
5030026-01	Dollar TMW-3	C9-C10 Aromatics	MADEP VPH	3.0	J	ug/L
5030026-02	Dollar TMW-6	Chloroform	SM6200 B	0.63		ug/L
5030026-03	Avis TMW-6	Lead	*6010C	0.0056		mg/L
5030026-03	Avis TMW-6	Isopropyl Ether	SM6200 B	12		ug/L
5030026-03	Avis TMW-6	Methyl-tert-Butyl Ether	SM6200 B	37		ug/L
5030026-03	Avis TMW-6	tert-Amyl Alcohol	SM6200 B	68		ug/L
5030026-03	Avis TMW-6	tert-Amyl Methyl Ether	SM6200 B	22		ug/L
5030026-03	Avis TMW-6	tert-Butyl Alcohol	SM6200 B	9.0	J	ug/L
5030026-03	Avis TMW-6	C5-C8 Aliphatics	MADEP VPH	92		ug/L
5030026-03	Avis TMW-6	C9-C12 Aliphatics	MADEP VPH	9.6	J	ug/L
5030026-03	Avis TMW-6	C9-C10 Aromatics	MADEP VPH	2.6	J	ug/L
5030026-04	National TMW-2	Lead	*6010C	0.025		mg/L
5030026-04	National TMW-2	1,3,5-Trimethylbenzene	SM6200 B	0.53		ug/L
5030026-04	National TMW-2	4-Isopropyltoluene	SM6200 B	5.2		ug/L
5030026-04	National TMW-2	Benzene	SM6200 B	0.70		ug/L
5030026-04	National TMW-2	Isopropyl Ether	SM6200 B	0.82		ug/L
5030026-04	National TMW-2	Isopropylbenzene (Cumene)	SM6200 B	0.51		ug/L
5030026-04	National TMW-2	Methyl-tert-Butyl Ether	SM6200 B	18		ug/L
5030026-04	National TMW-2	Naphthalene	SM6200 B	0.93	J	ug/L
5030026-04	National TMW-2	tert-Amyl Alcohol	SM6200 B	12		ug/L
5030026-04	National TMW-2	tert-Butyl Alcohol	SM6200 B	5.4	J	ug/L
5030026-04	National TMW-2	Toluene	SM6200 B	0.63		ug/L
5030026-04	National TMW-2	C5-C8 Aliphatics	MADEP VPH	27	J	ug/L
5030026-04	National TMW-2	C9-C12 Aliphatics	MADEP VPH	32	J	ug/L
5030026-04	National TMW-2	C9-C10 Aromatics	MADEP VPH	19	J	ug/L
5030026-05	National TMW-3	Lead	*6010C	0.030		mg/L
5030026-05	National TMW-3	1,2,4-Trimethylbenzene	SM6200 B	0.86		ug/L
5030026-05	National TMW-3	1,3,5-Trimethylbenzene	SM6200 B	2.2		ug/L
5030026-05	National TMW-3	Benzene	SM6200 B	7.9		ug/L
5030026-05	National TMW-3	Isopropyl Ether	SM6200 B	12		ug/L
5030026-05	National TMW-3	Isopropylbenzene (Cumene)	SM6200 B	0.65		ug/L
5030026-05	National TMW-3	Methyl-tert-Butyl Ether	SM6200 B	71		ug/L
5030026-05	National TMW-3	Naphthalene	SM6200 B	7.7		ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

04/15/2015

Prism Work Order: 5030026

Prism ID	Client ID	Parameter	Method	Result		Units
5030026-05	National TMW-3	n-Butylbenzene	SM6200 B	1.2		ug/L
5030026-05	National TMW-3	sec-Butylbenzene	SM6200 B	1.1		ug/L
5030026-05	National TMW-3	tert-Amyl Methyl Ether	SM6200 B	1.1	J	ug/L
5030026-05	National TMW-3	tert-Butyl Alcohol	SM6200 B	8.0	J	ug/L
5030026-05	National TMW-3	C5-C8 Aliphatics	MADEP VPH	190		ug/L
5030026-05	National TMW-3	C9-C12 Aliphatics	MADEP VPH	160		ug/L
5030026-05	National TMW-3	C9-C10 Aromatics	MADEP VPH	140		ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-3
Prism Sample ID: 5030026-01
Prism Work Order: 5030026
Time Collected: 03/02/15 09:35
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	**0.0063**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**3/4/15 16:31**	**BGM**	**P5C0054**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Benzene	**6.7**	**ug/L**	**0.50**	**0.048**	**1**	**SM6200 B**	**3/4/15 21:44**	**VHL**	**P5C0088**
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Chloroform	**0.76**	**ug/L**	**0.50**	**0.076**	**1**	**SM6200 B**	**3/4/15 21:44**	**VHL**	**P5C0088**
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/4/15 21:44	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-3
Prism Sample ID: 5030026-01
Prism Work Order: 5030026
Time Collected: 03/02/15 09:35
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Isopropyl Ether	**8.4**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**3/4/15 21:44**	**VHL**	**P5C0088**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
m,p-Xylenes	**0.68 J**	**ug/L**	**1.0**	**0.12**	**1**	**SM6200 B**	**3/4/15 21:44**	**VHL**	**P5C0088**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Methyl-tert-Butyl Ether	**2.6**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**3/4/15 21:44**	**VHL**	**P5C0088**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
tert-Amyl Alcohol	**53**	**ug/L**	**10**	**0.72**	**1**	**SM6200 B**	**3/4/15 21:44**	**VHL**	**P5C0088**
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
tert-Butyl Alcohol	**39**	**ug/L**	**10**	**0.64**	**1**	**SM6200 B**	**3/4/15 21:44**	**VHL**	**P5C0088**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/4/15 21:44	VHL	P5C0088
Xylenes, total	**0.68 J**	**ug/L**	**1.5**	**0.15**	**1**	**SM6200 B**	**3/4/15 21:44**	**VHL**	**P5C0088**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*70-130*
Dibromofluoromethane	*106 %*	*70-130*
Toluene-d8	*103 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**50**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/4/15 2:26**	**ANG**	**P5C0048**
C9-C12 Aliphatics	**14 J**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**3/4/15 2:26**	**ANG**	**P5C0048**
C9-C10 Aromatics	**3.0 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**3/4/15 2:26**	**ANG**	**P5C0048**

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-3
Prism Sample ID: 5030026-01
Prism Work Order: 5030026
Time Collected: 03/02/15 09:35
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (PID)							*95 %*		*70-130*
2,5-Dibromotoluene (FID)							*99 %*		*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-6
Prism Sample ID: 5030026-02
Prism Work Order: 5030026
Time Collected: 03/02/15 11:00
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/6/15 15:00	KC	P5C0062
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/6/15 15:00	KC	P5C0062
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/6/15 15:00	KC	P5C0062

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*88 %*	*40-140*
o-Terphenyl	*101 %*	*40-140*
2-Fluorobiphenyl	*102 %*	*40-140*
2-Bromonaphthalene	*94 %*	*40-140*

Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
1,2-Dichlorobenzene	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
1,3-Dichlorobenzene	BRL	ug/L	11	1.8	1	625	3/11/15 13:46	KC	P5C0144
1,4-Dichlorobenzene	BRL	ug/L	11	1.8	1	625	3/11/15 13:46	KC	P5C0144
1-Methylnaphthalene	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
2,4,6-Trichlorophenol	BRL	ug/L	11	1.6	1	625	3/11/15 13:46	KC	P5C0144
2,4-Dichlorophenol	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
2,4-Dimethylphenol	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
2,4-Dinitrophenol	BRL	ug/L	11	0.57	1	625	3/11/15 13:46	KC	P5C0144
2,4-Dinitrotoluene	BRL	ug/L	11	1.5	1	625	3/11/15 13:46	KC	P5C0144
2,6-Dinitrotoluene	BRL	ug/L	11	1.4	1	625	3/11/15 13:46	KC	P5C0144
2-Chloronaphthalene	BRL	ug/L	11	1.9	1	625	3/11/15 13:46	KC	P5C0144
2-Chlorophenol	BRL	ug/L	11	1.5	1	625	3/11/15 13:46	KC	P5C0144
2-Methylnaphthalene	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
2-Nitrophenol	BRL	ug/L	11	1.6	1	625	3/11/15 13:46	KC	P5C0144
3,3'-Dichlorobenzidine	BRL	ug/L	11	1.6	1	625	3/11/15 13:46	KC	P5C0144
3/4-Methylphenol	BRL	ug/L	11	1.2	1	625	3/11/15 13:46	KC	P5C0144
4,6-Dinitro-2-methylphenol	BRL	ug/L	11	1.3	1	625	3/11/15 13:46	KC	P5C0144
4-Bromophenyl phenyl ether	BRL	ug/L	11	1.4	1	625	3/11/15 13:46	KC	P5C0144
4-Chloro-3-methylphenol	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
4-Chloroaniline	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
4-Chlorophenyl phenyl ether	BRL	ug/L	11	1.3	1	625	3/11/15 13:46	KC	P5C0144
4-Nitrophenol	BRL	ug/L	53	1.1	1	625	3/11/15 13:46	KC	P5C0144
Acenaphthene	BRL	ug/L	11	1.8	1	625	3/11/15 13:46	KC	P5C0144
Acenaphthylene	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
Anthracene	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
Benzidine	BRL	ug/L	110	3.1	1	625	3/11/15 13:46	KC	P5C0144
Benzo(a)anthracene	BRL	ug/L	11	1.5	1	625	3/11/15 13:46	KC	P5C0144
Benzo(a)pyrene	BRL	ug/L	11	1.8	1	625	3/11/15 13:46	KC	P5C0144
Benzo(b)fluoranthene	BRL	ug/L	11	1.8	1	625	3/11/15 13:46	KC	P5C0144
Benzo(g,h,i)perylene	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
Benzo(k)fluoranthene	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
Benzoic Acid	BRL	ug/L	110	1.1	1	625	3/11/15 13:46	KC	P5C0144

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-6
Prism Sample ID: 5030026-02
Prism Work Order: 5030026
Time Collected: 03/02/15 11:00
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	11	1.2	1	625	3/11/15 13:46	KC	P5C0144
bis(2-Chloroethoxy)methane	BRL	ug/L	11	1.3	1	625	3/11/15 13:46	KC	P5C0144
Bis(2-Chloroethyl)ether	BRL	ug/L	11	1.8	1	625	3/11/15 13:46	KC	P5C0144
Bis(2-chloroisopropyl)ether	BRL	ug/L	11	1.3	1	625	3/11/15 13:46	KC	P5C0144
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
Butyl benzyl phthalate	BRL	ug/L	11	1.5	1	625	3/11/15 13:46	KC	P5C0144
Chrysene	BRL	ug/L	11	1.5	1	625	3/11/15 13:46	KC	P5C0144
Dibenzo(a,h)anthracene	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
Dibenzofuran	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
Diethyl phthalate	BRL	ug/L	11	1.0	1	625	3/11/15 13:46	KC	P5C0144
Dimethyl phthalate	BRL	ug/L	11	1.5	1	625	3/11/15 13:46	KC	P5C0144
Di-n-butyl phthalate	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
Di-n-octyl phthalate	BRL	ug/L	11	1.9	1	625	3/11/15 13:46	KC	P5C0144
Fluoranthene	BRL	ug/L	11	1.5	1	625	3/11/15 13:46	KC	P5C0144
Fluorene	BRL	ug/L	11	1.6	1	625	3/11/15 13:46	KC	P5C0144
Hexachlorobenzene	BRL	ug/L	11	1.3	1	625	3/11/15 13:46	KC	P5C0144
Hexachlorobutadiene	BRL	ug/L	11	2.1	1	625	3/11/15 13:46	KC	P5C0144
Hexachlorocyclopentadiene	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
Hexachloroethane	BRL	ug/L	11	2.1	1	625	3/11/15 13:46	KC	P5C0144
Indeno(1,2,3-cd)pyrene	BRL	ug/L	11	2.3	1	625	3/11/15 13:46	KC	P5C0144
Isophorone	BRL	ug/L	11	1.6	1	625	3/11/15 13:46	KC	P5C0144
Naphthalene	BRL	ug/L	11	1.7	1	625	3/11/15 13:46	KC	P5C0144
Nitrobenzene	BRL	ug/L	11	1.5	1	625	3/11/15 13:46	KC	P5C0144
N-Nitrosodimethylamine	BRL	ug/L	11	1.0	1	625	3/11/15 13:46	KC	P5C0144
N-Nitroso-di-n-propylamine	BRL	ug/L	11	1.2	1	625	3/11/15 13:46	KC	P5C0144
N-Nitrosodiphenylamine	BRL	ug/L	11	1.5	1	625	3/11/15 13:46	KC	P5C0144
Pentachlorophenol	BRL	ug/L	11	1.6	1	625	3/11/15 13:46	KC	P5C0144
Phenanthrene	BRL	ug/L	11	1.5	1	625	3/11/15 13:46	KC	P5C0144
Phenol	BRL	ug/L	11	0.95	1	625	3/11/15 13:46	KC	P5C0144
Pyrene	BRL	ug/L	11	1.6	1	625	3/11/15 13:46	KC	P5C0144
TIC: Tentatively Identified Compounds	Not Detected	ug/L			1	625	3/11/15 13:46	KC	P5C0144

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*74 %*	*31-144*
2-Fluorobiphenyl	*91 %*	*49-118*
2-Fluorophenol	*48 %*	*22-84*
Nitrobenzene-d5	*97 %*	*43-123*
Phenol-d5	*31 %*	*10-63*
Terphenyl-d14	*97 %*	*49-151*

Total Metals

Chromium	BRL	mg/L	0.0050	0.00038	1	*6010C	3/4/15 16:53	BGM	P5C0054
Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	3/4/15 16:53	BGM	P5C0054

Volatile Organic Compounds by GC/MS

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-6
Prism Sample ID: 5030026-02
Prism Work Order: 5030026
Time Collected: 03/02/15 11:00
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Chloroform	**0.63**	**ug/L**	**0.50**	**0.076**	**1**	**SM6200 B**	**3/4/15 22:18**	**VHL**	**P5C0088**
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 22:18	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Dollar TMW-6
Prism Sample ID: 5030026-02
Prism Work Order: 5030026
Time Collected: 03/02/15 11:00
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Methyl-tert-Butyl Ether	BRL	ug/L	1.0	0.042	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/4/15 22:18	VHL	P5C0088
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	3/4/15 22:18	VHL	P5C0088

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*70-130*
Dibromofluoromethane	*105 %*	*70-130*
Toluene-d8	*106 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	3/4/15 2:59	ANG	P5C0048
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	3/4/15 2:59	ANG	P5C0048
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	3/4/15 2:59	ANG	P5C0048

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*92 %*	*70-130*
2,5-Dibromotoluene (FID)	*97 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Avis TMW-6
Prism Sample ID: 5030026-03
Prism Work Order: 5030026
Time Collected: 03/02/15 13:10
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	**0.0056**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**3/4/15 17:01**	**BGM**	**P5C0054**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/4/15 22:52	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Avis TMW-6
Prism Sample ID: 5030026-03
Prism Work Order: 5030026
Time Collected: 03/02/15 13:10
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Isopropyl Ether	**12**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**3/4/15 22:52**	**VHL**	**P5C0088**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Methyl-tert-Butyl Ether	**37**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**3/4/15 22:52**	**VHL**	**P5C0088**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
tert-Amyl Alcohol	**68**	**ug/L**	**10**	**0.72**	**1**	**SM6200 B**	**3/4/15 22:52**	**VHL**	**P5C0088**
tert-Amyl Methyl Ether	**22**	**ug/L**	**10**	**0.10**	**1**	**SM6200 B**	**3/4/15 22:52**	**VHL**	**P5C0088**
tert-Butyl Alcohol	**9.0 J**	**ug/L**	**10**	**0.64**	**1**	**SM6200 B**	**3/4/15 22:52**	**VHL**	**P5C0088**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/4/15 22:52	VHL	P5C0088
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	3/4/15 22:52	VHL	P5C0088

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*108 %*	*70-130*
Dibromofluoromethane	*102 %*	*70-130*
Toluene-d8	*107 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**92**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/4/15 3:31**	**ANG**	**P5C0048**
C9-C12 Aliphatics	**9.6 J**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**3/4/15 3:31**	**ANG**	**P5C0048**
C9-C10 Aromatics	**2.6 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**3/4/15 3:31**	**ANG**	**P5C0048**

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: Avis TMW-6
Prism Sample ID: 5030026-03
Prism Work Order: 5030026
Time Collected: 03/02/15 13:10
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (PID)							*93 %*		*70-130*
2,5-Dibromotoluene (FID)							*97 %*		*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-2
Prism Sample ID: 5030026-04
Prism Work Order: 5030026
Time Collected: 03/02/15 15:00
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	**0.025**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**3/4/15 17:09**	**BGM**	**P5C0054**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,3,5-Trimethylbenzene	**0.53**	**ug/L**	**0.50**	**0.076**	**1**	**SM6200 B**	**3/4/15 23:26**	**VHL**	**P5C0088**
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
4-Isopropyltoluene	**5.2**	**ug/L**	**0.50**	**0.089**	**1**	**SM6200 B**	**3/4/15 23:26**	**VHL**	**P5C0088**
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Benzene	**0.70**	**ug/L**	**0.50**	**0.048**	**1**	**SM6200 B**	**3/4/15 23:26**	**VHL**	**P5C0088**
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/4/15 23:26	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-2
Prism Sample ID: 5030026-04
Prism Work Order: 5030026
Time Collected: 03/02/15 15:00
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Isopropyl Ether	**0.82**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**3/4/15 23:26**	**VHL**	**P5C0088**
Isopropylbenzene (Cumene)	**0.51**	**ug/L**	**0.50**	**0.054**	**1**	**SM6200 B**	**3/4/15 23:26**	**VHL**	**P5C0088**
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Methyl-tert-Butyl Ether	**18**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**3/4/15 23:26**	**VHL**	**P5C0088**
Naphthalene	**0.93 J**	**ug/L**	**1.0**	**0.19**	**1**	**SM6200 B**	**3/4/15 23:26**	**VHL**	**P5C0088**
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
tert-Amyl Alcohol	**12**	**ug/L**	**10**	**0.72**	**1**	**SM6200 B**	**3/4/15 23:26**	**VHL**	**P5C0088**
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
tert-Butyl Alcohol	**5.4 J**	**ug/L**	**10**	**0.64**	**1**	**SM6200 B**	**3/4/15 23:26**	**VHL**	**P5C0088**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Toluene	**0.63**	**ug/L**	**0.50**	**0.044**	**1**	**SM6200 B**	**3/4/15 23:26**	**VHL**	**P5C0088**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/4/15 23:26	VHL	P5C0088
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	3/4/15 23:26	VHL	P5C0088

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*70-130*
Dibromofluoromethane	*105 %*	*70-130*
Toluene-d8	*104 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**27 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/4/15 4:04**	**ANG**	**P5C0048**
C9-C12 Aliphatics	**32 J**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**3/4/15 4:04**	**ANG**	**P5C0048**
C9-C10 Aromatics	**19 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**3/4/15 4:04**	**ANG**	**P5C0048**

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-2
Prism Sample ID: 5030026-04
Prism Work Order: 5030026
Time Collected: 03/02/15 15:00
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (PID)						*93 %*		*70-130*	
2,5-Dibromotoluene (FID)						*97 %*		*70-130*	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-3
Prism Sample ID: 5030026-05
Prism Work Order: 5030026
Time Collected: 03/02/15 15:55
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Total Metals									
Lead	**0.030**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**3/4/15 17:17**	**BGM**	**P5C0054**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,2,4-Trimethylbenzene	**0.86**	**ug/L**	**0.50**	**0.054**	**1**	**SM6200 B**	**3/5/15 0:01**	**VHL**	**P5C0088**
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,3,5-Trimethylbenzene	**2.2**	**ug/L**	**0.50**	**0.076**	**1**	**SM6200 B**	**3/5/15 0:01**	**VHL**	**P5C0088**
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Benzene	**7.9**	**ug/L**	**0.50**	**0.048**	**1**	**SM6200 B**	**3/5/15 0:01**	**VHL**	**P5C0088**
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/5/15 0:01	VHL	P5C0088

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-3
Prism Sample ID: 5030026-05
Prism Work Order: 5030026
Time Collected: 03/02/15 15:55
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Isopropyl Ether	**12**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**3/5/15 0:01**	**VHL**	**P5C0088**
Isopropylbenzene (Cumene)	**0.65**	**ug/L**	**0.50**	**0.054**	**1**	**SM6200 B**	**3/5/15 0:01**	**VHL**	**P5C0088**
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Methyl-tert-Butyl Ether	**71**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**3/5/15 0:01**	**VHL**	**P5C0088**
Naphthalene	**7.7**	**ug/L**	**1.0**	**0.19**	**1**	**SM6200 B**	**3/5/15 0:01**	**VHL**	**P5C0088**
n-Butylbenzene	**1.2**	**ug/L**	**0.50**	**0.076**	**1**	**SM6200 B**	**3/5/15 0:01**	**VHL**	**P5C0088**
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
sec-Butylbenzene	**1.1**	**ug/L**	**0.50**	**0.076**	**1**	**SM6200 B**	**3/5/15 0:01**	**VHL**	**P5C0088**
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
tert-Amyl Methyl Ether	**1.1 J**	**ug/L**	**10**	**0.10**	**1**	**SM6200 B**	**3/5/15 0:01**	**VHL**	**P5C0088**
tert-Butyl Alcohol	**8.0 J**	**ug/L**	**10**	**0.64**	**1**	**SM6200 B**	**3/5/15 0:01**	**VHL**	**P5C0088**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/5/15 0:01	VHL	P5C0088
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	3/5/15 0:01	VHL	P5C0088

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*108 %*	*70-130*
Dibromofluoromethane	*102 %*	*70-130*
Toluene-d8	*103 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**190**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/4/15 4:36**	**ANG**	**P5C0048**
C9-C12 Aliphatics	**160**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**3/4/15 4:36**	**ANG**	**P5C0048**
C9-C10 Aromatics	**140**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**3/4/15 4:36**	**ANG**	**P5C0048**

Surrogate	Recovery	Control Limits

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-3
Prism Sample ID: 5030026-05
Prism Work Order: 5030026
Time Collected: 03/02/15 15:55
Time Submitted: 03/02/15 17:00

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2,5-Dibromotoluene (PID)							*105 %*		*70-130*
2,5-Dibromotoluene (FID)							*110 %*		*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
Blank (P5C0088-BLK1)				Prepared & Analyzed: 03/04/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	0.50	ug/L							
1,2,4-Trichlorobenzene	BRL	0.50	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	10	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	0.50	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethanol	BRL	200	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
Blank (P5C0088-BLK1)				Prepared & Analyzed: 03/04/15						
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	1.0	ug/L							
Methylene Chloride	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	1.0	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	0.50	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Amyl Alcohol	BRL	10	ug/L							
tert-Amyl Methyl Ether	BRL	10	ug/L							
tert-Butyl Alcohol	BRL	10	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
tert-Butyl Ethyl Ether	BRL	10	ug/L							
tert-Butyl Formate	BRL	10	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	5.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*27.0*		*ug/L*	*25.00*		*108*	*70-130*			
Surrogate: Dibromofluoromethane	*25.8*		*ug/L*	*25.00*		*103*	*70-130*			
Surrogate: Toluene-d8	*25.5*		*ug/L*	*25.00*		*102*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
LCS (P5C0088-BS1)				Prepared & Analyzed: 03/04/15						
1,1,1,2-Tetrachloroethane	19.0	0.50	ug/L	20.00		95	70-130			
1,1,1-Trichloroethane	20.7	0.50	ug/L	20.00		103	70-130			
1,1,2,2-Tetrachloroethane	19.2	0.50	ug/L	20.00		96	70-130			
1,1,2-Trichloroethane	19.4	0.50	ug/L	20.00		97	70-130			
1,1-Dichloroethane	19.9	0.50	ug/L	20.00		99	70-130			
1,1-Dichloroethylene	22.8	0.50	ug/L	20.00		114	70-130			
1,1-Dichloropropylene	22.5	0.50	ug/L	20.00		112	70-130			
1,2,3-Trichlorobenzene	20.7	0.50	ug/L	20.00		104	70-130			
1,2,3-Trichloropropane	18.7	0.50	ug/L	20.00		93	70-130			
1,2,4-Trichlorobenzene	21.6	0.50	ug/L	20.00		108	70-130			
1,2,4-Trimethylbenzene	22.4	0.50	ug/L	20.00		112	70-130			
1,2-Dibromo-3-chloropropane	21.9	2.0	ug/L	20.00		109	70-130			
1,2-Dibromoethane	20.5	0.50	ug/L	20.00		103	70-130			
1,2-Dichlorobenzene	20.9	0.50	ug/L	20.00		105	70-130			
1,2-Dichloroethane	18.6	0.50	ug/L	20.00		93	70-130			
1,2-Dichloropropane	19.1	0.50	ug/L	20.00		95	70-130			
1,3,5-Trimethylbenzene	22.7	0.50	ug/L	20.00		114	70-130			
1,3-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	70-130			
1,3-Dichloropropane	20.3	0.50	ug/L	20.00		102	70-130			
1,4-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	70-130			
2,2-Dichloropropane	21.5	2.0	ug/L	20.00		107	70-130			
2-Chlorotoluene	21.2	0.50	ug/L	20.00		106	70-130			
4-Chlorotoluene	21.5	0.50	ug/L	20.00		107	70-130			
4-Isopropyltoluene	23.3	0.50	ug/L	20.00		117	70-130			
Acetone	39.6	10	ug/L	40.00		99	40-160			
Benzene	21.2	0.50	ug/L	20.00		106	70-130			
Bromobenzene	20.1	0.50	ug/L	20.00		101	70-130			
Bromochloromethane	20.5	0.50	ug/L	20.00		103	70-130			
Bromodichloromethane	17.4	0.50	ug/L	20.00		87	70-130			
Bromoform	18.9	0.50	ug/L	20.00		94	70-130			
Bromomethane	21.1	1.0	ug/L	20.00		105	60-140			
Carbon Tetrachloride	19.9	0.50	ug/L	20.00		100	70-130			
Chlorobenzene	20.3	0.50	ug/L	20.00		102	70-130			
Chloroethane	21.6	0.50	ug/L	20.00		108	60-140			
Chloroform	18.1	0.50	ug/L	20.00		90	70-130			
Chloromethane	22.2	0.50	ug/L	20.00		111	60-140			
cis-1,2-Dichloroethylene	20.2	0.50	ug/L	20.00		101	70-130			
cis-1,3-Dichloropropylene	20.3	0.50	ug/L	20.00		102	70-130			
Dibromochloromethane	18.6	0.50	ug/L	20.00		93	70-130			
Dibromomethane	17.0	0.50	ug/L	20.00		85	70-130			
Dichlorodifluoromethane	22.1	1.0	ug/L	20.00		110	60-140			
Ethanol	600	200	ug/L	500.0		120	60-140			
Ethylbenzene	21.3	0.50	ug/L	20.00		106	70-130			
Hexachlorobutadiene	21.4	2.0	ug/L	20.00		107	70-130			
Isopropyl Ether	18.2	0.50	ug/L	20.00		91	70-130			
Isopropylbenzene (Cumene)	23.5	0.50	ug/L	20.00		117	70-130			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
LCS (P5C0088-BS1)				Prepared & Analyzed: 03/04/15						
m,p-Xylenes	43.5	1.0	ug/L	40.00		109	70-130			
Methyl Butyl Ketone (2-Hexanone)	20.8	1.0	ug/L	20.00		104	60-140			
Methyl Ethyl Ketone (2-Butanone)	19.4	5.0	ug/L	20.00		97	60-140			
Methyl Isobutyl Ketone	19.4	1.0	ug/L	20.00		97	60-140			
Methylene Chloride	22.6	2.0	ug/L	20.00		113	70-130			
Methyl-tert-Butyl Ether	20.2	1.0	ug/L	20.00		101	70-130			
Naphthalene	20.6	1.0	ug/L	20.00		103	70-130			
n-Butylbenzene	23.2	0.50	ug/L	20.00		116	70-130			
n-Propylbenzene	22.8	0.50	ug/L	20.00		114	70-130			
o-Xylene	21.7	0.50	ug/L	20.00		108	70-130			
sec-Butylbenzene	21.8	0.50	ug/L	20.00		109	70-130			
Styrene	21.4	0.50	ug/L	20.00		107	70-130			
tert-Amyl Alcohol	15.0	10	ug/L	20.00		75	70-130			
tert-Amyl Methyl Ether	41.0	10	ug/L	40.00		102	70-130			
tert-Butyl Alcohol	32.8	10	ug/L	40.00		82	70-130			
tert-Butylbenzene	21.8	0.50	ug/L	20.00		109	70-130			
tert-Butyl Ethyl Ether	41.1	10	ug/L	40.00		103	70-130			
tert-Butyl Formate	38.4	10	ug/L	40.00		96	70-130			
Tetrachloroethylene	20.8	0.50	ug/L	20.00		104	70-130			
Toluene	20.5	0.50	ug/L	20.00		103	70-130			
trans-1,2-Dichloroethylene	22.0	0.50	ug/L	20.00		110	70-130			
trans-1,3-Dichloropropylene	19.7	0.50	ug/L	20.00		98	70-130			
Trichloroethylene	21.4	0.50	ug/L	20.00		107	70-130			
Trichlorofluoromethane	21.6	0.50	ug/L	20.00		108	60-140			
Vinyl acetate	23.0	5.0	ug/L	20.00		115	60-140			
Vinyl chloride	23.4	0.50	ug/L	20.00		117	60-140			
Xylenes, total	65.2	1.5	ug/L	60.00		109	70-130			
Surrogate: 4-Bromofluorobenzene	*26.4*		*ug/L*	*25.00*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*25.2*		*ug/L*	*25.00*		*101*	*70-130*			
Surrogate: Toluene-d8	*26.0*		*ug/L*	*25.00*		*104*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
LCS Dup (P5C0088-BSD1)				Prepared & Analyzed: 03/04/15						
1,1,1,2-Tetrachloroethane	18.5	0.50	ug/L	20.00		93	70-130	3	20	
1,1,1-Trichloroethane	19.6	0.50	ug/L	20.00		98	70-130	5	20	
1,1,2,2-Tetrachloroethane	18.3	0.50	ug/L	20.00		92	70-130	4	20	
1,1,2-Trichloroethane	19.0	0.50	ug/L	20.00		95	70-130	2	20	
1,1-Dichloroethane	19.6	0.50	ug/L	20.00		98	70-130	2	20	
1,1-Dichloroethylene	21.4	0.50	ug/L	20.00		107	70-130	7	20	
1,1-Dichloropropylene	21.4	0.50	ug/L	20.00		107	70-130	5	20	
1,2,3-Trichlorobenzene	20.1	0.50	ug/L	20.00		100	70-130	3	20	
1,2,3-Trichloropropane	18.0	0.50	ug/L	20.00		90	70-130	3	20	
1,2,4-Trichlorobenzene	20.1	0.50	ug/L	20.00		101	70-130	7	20	
1,2,4-Trimethylbenzene	21.4	0.50	ug/L	20.00		107	70-130	5	20	
1,2-Dibromo-3-chloropropane	19.7	2.0	ug/L	20.00		98	70-130	11	20	
1,2-Dibromoethane	20.0	0.50	ug/L	20.00		100	70-130	2	20	
1,2-Dichlorobenzene	20.0	0.50	ug/L	20.00		100	70-130	5	20	
1,2-Dichloroethane	18.2	0.50	ug/L	20.00		91	70-130	2	20	
1,2-Dichloropropane	19.0	0.50	ug/L	20.00		95	70-130	0.4	20	
1,3,5-Trimethylbenzene	22.0	0.50	ug/L	20.00		110	70-130	3	20	
1,3-Dichlorobenzene	19.8	0.50	ug/L	20.00		99	70-130	3	20	
1,3-Dichloropropane	19.5	0.50	ug/L	20.00		98	70-130	4	20	
1,4-Dichlorobenzene	19.7	0.50	ug/L	20.00		98	70-130	6	20	
2,2-Dichloropropane	21.2	2.0	ug/L	20.00		106	70-130	1	20	
2-Chlorotoluene	20.5	0.50	ug/L	20.00		103	70-130	3	20	
4-Chlorotoluene	20.2	0.50	ug/L	20.00		101	70-130	6	20	
4-Isopropyltoluene	21.5	0.50	ug/L	20.00		108	70-130	8	20	
Acetone	37.2	10	ug/L	40.00		93	40-160	6	20	
Benzene	21.0	0.50	ug/L	20.00		105	70-130	0.7	20	
Bromobenzene	18.9	0.50	ug/L	20.00		95	70-130	6	20	
Bromochloromethane	20.6	0.50	ug/L	20.00		103	70-130	0.4	20	
Bromodichloromethane	17.3	0.50	ug/L	20.00		86	70-130	1	20	
Bromoform	18.5	0.50	ug/L	20.00		93	70-130	2	20	
Bromomethane	20.0	1.0	ug/L	20.00		100	60-140	5	20	
Carbon Tetrachloride	18.3	0.50	ug/L	20.00		91	70-130	9	20	
Chlorobenzene	20.8	0.50	ug/L	20.00		104	70-130	2	20	
Chloroethane	20.6	0.50	ug/L	20.00		103	60-140	5	20	
Chloroform	17.4	0.50	ug/L	20.00		87	70-130	4	20	
Chloromethane	22.0	0.50	ug/L	20.00		110	60-140	0.9	20	
cis-1,2-Dichloroethylene	20.2	0.50	ug/L	20.00		101	70-130	0.1	20	
cis-1,3-Dichloropropylene	20.2	0.50	ug/L	20.00		101	70-130	0.4	20	
Dibromochloromethane	18.8	0.50	ug/L	20.00		94	70-130	1	20	
Dibromomethane	17.4	0.50	ug/L	20.00		87	70-130	2	20	
Dichlorodifluoromethane	22.1	1.0	ug/L	20.00		110	60-140	0.09	20	
Ethanol	500	200	ug/L	500.0		100	60-140	18	20	
Ethylbenzene	21.0	0.50	ug/L	20.00		105	70-130	1	20	
Hexachlorobutadiene	20.4	2.0	ug/L	20.00		102	70-130	5	20	
Isopropyl Ether	17.8	0.50	ug/L	20.00		89	70-130	2	20	
Isopropylbenzene (Cumene)	22.2	0.50	ug/L	20.00		111	70-130	5	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0088 - SM6200 B										
LCS Dup (P5C0088-BSD1)				Prepared & Analyzed: 03/04/15						
m,p-Xylenes	42.6	1.0	ug/L	40.00		107	70-130	2	20	
Methyl Butyl Ketone (2-Hexanone)	20.6	1.0	ug/L	20.00		103	60-140	1	20	
Methyl Ethyl Ketone (2-Butanone)	20.2	5.0	ug/L	20.00		101	60-140	4	20	
Methyl Isobutyl Ketone	18.4	1.0	ug/L	20.00		92	60-140	5	20	
Methylene Chloride	21.4	2.0	ug/L	20.00		107	70-130	5	20	
Methyl-tert-Butyl Ether	19.2	1.0	ug/L	20.00		96	70-130	5	20	
Naphthalene	20.2	1.0	ug/L	20.00		101	70-130	2	20	
n-Butylbenzene	21.6	0.50	ug/L	20.00		108	70-130	7	20	
n-Propylbenzene	21.5	0.50	ug/L	20.00		108	70-130	6	20	
o-Xylene	21.3	0.50	ug/L	20.00		106	70-130	2	20	
sec-Butylbenzene	20.3	0.50	ug/L	20.00		101	70-130	7	20	
Styrene	21.3	0.50	ug/L	20.00		106	70-130	0.5	20	
tert-Amyl Alcohol	18.9	10	ug/L	20.00		95	70-130	23	20	D
tert-Amyl Methyl Ether	40.5	10	ug/L	40.00		101	70-130	1	20	
tert-Butyl Alcohol	35.1	10	ug/L	40.00		88	70-130	7	20	
tert-Butylbenzene	21.0	0.50	ug/L	20.00		105	70-130	4	20	
tert-Butyl Ethyl Ether	40.6	10	ug/L	40.00		102	70-130	1	20	
tert-Butyl Formate	34.2	10	ug/L	40.00		85	70-130	12	20	
Tetrachloroethylene	20.3	0.50	ug/L	20.00		101	70-130	2	20	
Toluene	20.1	0.50	ug/L	20.00		100	70-130	2	20	
trans-1,2-Dichloroethylene	21.8	0.50	ug/L	20.00		109	70-130	0.9	20	
trans-1,3-Dichloropropylene	19.4	0.50	ug/L	20.00		97	70-130	1	20	
Trichloroethylene	20.8	0.50	ug/L	20.00		104	70-130	3	20	
Trichlorofluoromethane	20.1	0.50	ug/L	20.00		100	60-140	7	20	
Vinyl acetate	21.4	5.0	ug/L	20.00		107	60-140	7	20	
Vinyl chloride	22.4	0.50	ug/L	20.00		112	60-140	5	20	
Xylenes, total	63.9	1.5	ug/L	60.00		106	70-130	2	20	
Surrogate: 4-Bromofluorobenzene	*26.6*		*ug/L*	*25.00*		*106*	*70-130*			
Surrogate: Dibromofluoromethane	*24.8*		*ug/L*	*25.00*		*99*	*70-130*			
Surrogate: Toluene-d8	*26.1*		*ug/L*	*25.00*		*104*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
Blank (P5C0144-BLK1)				Prepared: 03/09/15 Analyzed: 03/11/15						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitrophenol	BRL	50	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Benzidine	BRL	100	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
Blank (P5C0144-BLK1)				Prepared: 03/09/15 Analyzed: 03/11/15						
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitrosodimethylamine	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Tentatively Identified Compounds	Not Detected		ug/L							
Surrogate: 2,4,6-Tribromophenol	*91.1*		*ug/L*	*100.0*		*91*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*50.1*		*ug/L*	*50.00*		*100*	*49-118*			
Surrogate: 2-Fluorophenol	*63.3*		*ug/L*	*100.0*		*63*	*22-84*			
Surrogate: Nitrobenzene-d5	*55.4*		*ug/L*	*50.00*		*111*	*43-123*			
Surrogate: Phenol-d5	*39.2*		*ug/L*	*100.0*		*39*	*10-63*			
Surrogate: Terphenyl-d14	*57.3*		*ug/L*	*50.00*		*115*	*49-151*			
LCS (P5C0144-BS1)				Prepared: 03/09/15 Analyzed: 03/11/15						
1,2,4-Trichlorobenzene	77.2	10	ug/L	100.0		77	44-142			
1,2-Dichlorobenzene	78.8	10	ug/L	100.0		79	32-129			
1,3-Dichlorobenzene	78.6	10	ug/L	100.0		79	20-124			
1,4-Dichlorobenzene	78.6	10	ug/L	100.0		79	20-124			
1-Methylnaphthalene	77.0	10	ug/L	100.0		77	40-135			
2,4,6-Trichlorophenol	84.6	10	ug/L	100.0		85	37-144			
2,4-Dichlorophenol	73.0	10	ug/L	100.0		73	39-135			
2,4-Dimethylphenol	73.9	10	ug/L	100.0		74	32-119			
2,4-Dinitrophenol	72.0	10	ug/L	100.0		72	10-191			
2,4-Dinitrotoluene	99.0	10	ug/L	100.0		99	39-139			
2,6-Dinitrotoluene	97.8	10	ug/L	100.0		98	50-158			
2-Chloronaphthalene	104	10	ug/L	100.0		104	60-118			
2-Chlorophenol	75.8	10	ug/L	100.0		76	23-134			
2-Methylnaphthalene	78.1	10	ug/L	100.0		78	18-121			
2-Nitrophenol	71.5	10	ug/L	100.0		72	29-182			
3,3'-Dichlorobenzidine	96.7	10	ug/L	100.0		97	10-262			
3/4-Methylphenol	72.2	10	ug/L	100.0		72	76-107			L
4,6-Dinitro-2-methylphenol	96.3	10	ug/L	100.0		96	10-181			
4-Bromophenyl phenyl ether	89.0	10	ug/L	100.0		89	53-127			
4-Chloro-3-methylphenol	75.2	10	ug/L	100.0		75	22-147			
4-Chloroaniline	90.3	10	ug/L	100.0		90	44-163			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
LCS (P5C0144-BS1)				Prepared: 03/09/15 Analyzed: 03/11/15						
4-Chlorophenyl phenyl ether	88.3	10	ug/L	100.0		88	25-158			
4-Nitrophenol	37.0	50	ug/L	100.0		37	10-132			J
Acenaphthene	88.6	10	ug/L	100.0		89	47-145			
Acenaphthylene	87.4	10	ug/L	100.0		87	33-145			
Anthracene	93.6	10	ug/L	100.0		94	27-133			
Benzidine	201	100	ug/L	100.0		201	15-150			LH
Benzo(a)anthracene	92.3	10	ug/L	100.0		92	33-143			
Benzo(a)pyrene	93.2	10	ug/L	100.0		93	17-163			
Benzo(b)fluoranthene	88.4	10	ug/L	100.0		88	24-159			
Benzo(g,h,i)perylene	90.5	10	ug/L	100.0		90	10-219			
Benzo(k)fluoranthene	93.8	10	ug/L	100.0		94	11-162			
Benzoic Acid	20.9	100	ug/L	100.0		21	10-125			J
Benzyl alcohol	63.3	10	ug/L	100.0		63	16-107			
bis(2-Chloroethoxy)methane	75.7	10	ug/L	100.0		76	33-184			
Bis(2-Chloroethyl)ether	85.4	10	ug/L	100.0		85	12-158			
Bis(2-chloroisopropyl)ether	75.4	10	ug/L	100.0		75	36-166			
Bis(2-Ethylhexyl)phthalate	88.7	10	ug/L	100.0		89	10-158			
Butyl benzyl phthalate	87.9	10	ug/L	100.0		88	10-152			
Chrysene	92.5	10	ug/L	100.0		93	17-168			
Dibenzo(a,h)anthracene	93.1	10	ug/L	100.0		93	10-227			
Dibenzofuran	85.2	10	ug/L	100.0		85	39-114			
Diethyl phthalate	85.5	10	ug/L	100.0		85	10-114			
Dimethyl phthalate	79.5	10	ug/L	100.0		80	10-112			
Di-n-butyl phthalate	89.4	10	ug/L	100.0		89	10-118			
Di-n-octyl phthalate	90.5	10	ug/L	100.0		91	10-146			
Fluoranthene	89.8	10	ug/L	100.0		90	26-137			
Fluorene	89.3	10	ug/L	100.0		89	59-121			
Hexachlorobenzene	93.5	10	ug/L	100.0		94	10-152			
Hexachlorobutadiene	73.9	10	ug/L	100.0		74	24-116			
Hexachlorocyclopentadiene	84.0	10	ug/L	100.0		84	32-117			
Hexachloroethane	79.2	10	ug/L	100.0		79	40-113			
Indeno(1,2,3-cd)pyrene	97.2	10	ug/L	100.0		97	10-171			
Isophorone	87.3	10	ug/L	100.0		87	21-196			
Naphthalene	74.4	10	ug/L	100.0		74	21-133			
Nitrobenzene	81.0	10	ug/L	100.0		81	35-180			
N-Nitrosodimethylamine	51.0	10	ug/L	100.0		51	10-119			
N-Nitroso-di-n-propylamine	87.1	10	ug/L	100.0		87	10-230			
N-Nitrosodiphenylamine	92.3	10	ug/L	100.0		92	69-152			
Pentachlorophenol	79.7	10	ug/L	100.0		80	14-176			
Phenanthrene	89.2	10	ug/L	100.0		89	54-120			
Phenol	43.0	10	ug/L	100.0		43	10-112			
Pyrene	89.5	10	ug/L	100.0		89	52-115			
Surrogate: 2,4,6-Tribromophenol	*83.2*		*ug/L*	*100.0*		*83*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*47.4*		*ug/L*	*50.00*		*95*	*49-118*			
Surrogate: 2-Fluorophenol	*56.5*		*ug/L*	*100.0*		*57*	*22-84*			
Surrogate: Nitrobenzene-d5	*41.5*		*ug/L*	*50.00*		*83*	*43-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
LCS (P5C0144-BS1)				Prepared: 03/09/15 Analyzed: 03/11/15						
Surrogate: Phenol-d5	*36.4*		*ug/L*	*100.0*		*36*	*10-63*			
Surrogate: Terphenyl-d14	*51.0*		*ug/L*	*50.00*		*102*	*49-151*			
LCS Dup (P5C0144-BSD1)				Prepared: 03/09/15 Analyzed: 03/11/15						
1,2,4-Trichlorobenzene	76.4	10	ug/L	100.0		76	44-142	1	20	
1,2-Dichlorobenzene	78.8	10	ug/L	100.0		79	32-129	0.04	20	
1,3-Dichlorobenzene	77.4	10	ug/L	100.0		77	20-124	2	20	
1,4-Dichlorobenzene	77.3	10	ug/L	100.0		77	20-124	2	20	
1-Methylnaphthalene	75.4	10	ug/L	100.0		75	40-135	2	20	
2,4,6-Trichlorophenol	88.9	10	ug/L	100.0		89	37-144	5	20	
2,4-Dichlorophenol	74.0	10	ug/L	100.0		74	39-135	1	20	
2,4-Dimethylphenol	74.6	10	ug/L	100.0		75	32-119	1	20	
2,4-Dinitrophenol	70.8	10	ug/L	100.0		71	10-191	2	20	
2,4-Dinitrotoluene	104	10	ug/L	100.0		104	39-139	4	20	
2,6-Dinitrotoluene	100	10	ug/L	100.0		100	50-158	3	20	
2-Chloronaphthalene	106	10	ug/L	100.0		106	60-118	2	20	
2-Chlorophenol	75.7	10	ug/L	100.0		76	23-134	0.2	20	
2-Methylnaphthalene	77.4	10	ug/L	100.0		77	18-121	0.9	20	
2-Nitrophenol	73.8	10	ug/L	100.0		74	29-182	3	20	
3,3'-Dichlorobenzidine	101	10	ug/L	100.0		101	10-262	4	20	
3/4-Methylphenol	73.1	10	ug/L	100.0		73	76-107	1	20	L
4,6-Dinitro-2-methylphenol	94.8	10	ug/L	100.0		95	10-181	2	20	
4-Bromophenyl phenyl ether	92.3	10	ug/L	100.0		92	53-127	4	20	
4-Chloro-3-methylphenol	77.2	10	ug/L	100.0		77	22-147	3	20	
4-Chloroaniline	89.8	10	ug/L	100.0		90	44-163	0.6	20	
4-Chlorophenyl phenyl ether	91.1	10	ug/L	100.0		91	25-158	3	20	
4-Nitrophenol	38.7	50	ug/L	100.0		39	10-132	5	20	J
Acenaphthene	90.2	10	ug/L	100.0		90	47-145	2	20	
Acenaphthylene	91.8	10	ug/L	100.0		92	33-145	5	20	
Anthracene	96.2	10	ug/L	100.0		96	27-133	3	20	
Benzidine	213	100	ug/L	100.0		213	15-150	6	20	LH
Benzo(a)anthracene	92.7	10	ug/L	100.0		93	33-143	0.5	20	
Benzo(a)pyrene	95.5	10	ug/L	100.0		96	17-163	2	20	
Benzo(b)fluoranthene	91.0	10	ug/L	100.0		91	24-159	3	20	
Benzo(g,h,i)perylene	91.4	10	ug/L	100.0		91	10-219	1	20	
Benzo(k)fluoranthene	94.4	10	ug/L	100.0		94	11-162	0.6	20	
Benzoic Acid	9.70	100	ug/L	100.0		10	10-125	73	20	D, J
Benzyl alcohol	65.0	10	ug/L	100.0		65	16-107	3	20	
bis(2-Chloroethoxy)methane	74.6	10	ug/L	100.0		75	33-184	1	20	
Bis(2-Chloroethyl)ether	83.1	10	ug/L	100.0		83	12-158	3	20	
Bis(2-chloroisopropyl)ether	75.3	10	ug/L	100.0		75	36-166	0.2	20	
Bis(2-Ethylhexyl)phthalate	91.1	10	ug/L	100.0		91	10-158	3	20	
Butyl benzyl phthalate	90.0	10	ug/L	100.0		90	10-152	2	20	
Chrysene	97.1	10	ug/L	100.0		97	17-168	5	20	
Dibenzo(a,h)anthracene	95.2	10	ug/L	100.0		95	10-227	2	20	
Dibenzofuran	87.0	10	ug/L	100.0		87	39-114	2	20	
Diethyl phthalate	89.0	10	ug/L	100.0		89	10-114	4	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
LCS Dup (P5C0144-BSD1)				Prepared: 03/09/15 Analyzed: 03/11/15						
Dimethyl phthalate	81.9	10	ug/L	100.0		82	10-112	3	20	
Di-n-butyl phthalate	91.2	10	ug/L	100.0		91	10-118	2	20	
Di-n-octyl phthalate	91.8	10	ug/L	100.0		92	10-146	1	20	
Fluoranthene	92.0	10	ug/L	100.0		92	26-137	2	20	
Fluorene	92.0	10	ug/L	100.0		92	59-121	3	20	
Hexachlorobenzene	94.8	10	ug/L	100.0		95	10-152	1	20	
Hexachlorobutadiene	74.6	10	ug/L	100.0		75	24-116	0.9	20	
Hexachlorocyclopentadiene	85.6	10	ug/L	100.0		86	32-117	2	20	
Hexachloroethane	79.6	10	ug/L	100.0		80	40-113	0.5	20	
Indeno(1,2,3-cd)pyrene	97.4	10	ug/L	100.0		97	10-171	0.2	20	
Isophorone	86.4	10	ug/L	100.0		86	21-196	1	20	
Naphthalene	73.6	10	ug/L	100.0		74	21-133	1	20	
Nitrobenzene	80.8	10	ug/L	100.0		81	35-180	0.2	20	
N-Nitrosodimethylamine	51.1	10	ug/L	100.0		51	10-119	0.3	20	
N-Nitroso-di-n-propylamine	86.6	10	ug/L	100.0		87	10-230	0.5	20	
N-Nitrosodiphenylamine	94.9	10	ug/L	100.0		95	69-152	3	20	
Pentachlorophenol	81.8	10	ug/L	100.0		82	14-176	3	20	
Phenanthrene	92.4	10	ug/L	100.0		92	54-120	4	20	
Phenol	40.7	10	ug/L	100.0		41	10-112	5	20	
Pyrene	92.2	10	ug/L	100.0		92	52-115	3	20	
Surrogate: 2,4,6-Tribromophenol	*89.1*		*ug/L*	*100.0*		*89*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*47.9*		*ug/L*	*50.00*		*96*	*49-118*			
Surrogate: 2-Fluorophenol	*55.8*		*ug/L*	*100.0*		*56*	*22-84*			
Surrogate: Nitrobenzene-d5	*41.2*		*ug/L*	*50.00*		*82*	*43-123*			
Surrogate: Phenol-d5	*35.6*		*ug/L*	*100.0*		*36*	*10-63*			
Surrogate: Terphenyl-d14	*52.7*		*ug/L*	*50.00*		*105*	*49-151*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0048 - MADEP VPH (W)										
Blank (P5C0048-BLK1)				Prepared & Analyzed: 03/03/15						
C5-C8 Aliphatics	BRL	50	ug/L							
C9-C12 Aliphatics	BRL	50	ug/L							
C9-C10 Aromatics	BRL	50	ug/L							
Surrogate: 2,5-Dibromotoluene (PID)	*87.2*		*ug/L*	*100.0*		*87*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*91.3*		*ug/L*	*100.0*		*91*	*70-130*			
LCS (P5C0048-BS1)				Prepared & Analyzed: 03/03/15						
C5-C8 Aliphatics	338	50	ug/L	300.0		113	70-130			
C9-C10 Aromatics	97.1	50	ug/L	100.0		97	70-130			
C9-C12 Aliphatic	344	50	ug/L	300.0		115	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*94.3*		*ug/L*	*100.0*		*94*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*97.6*		*ug/L*	*100.0*		*98*	*70-130*			
LCS Dup (P5C0048-BSD1)				Prepared & Analyzed: 03/03/15						
C5-C8 Aliphatics	330	50	ug/L	300.0		110	70-130	2	50	
C9-C10 Aromatics	94.8	50	ug/L	100.0		95	70-130	2	50	
C9-C12 Aliphatic	341	50	ug/L	300.0		114	70-130	1	50	
Surrogate: 2,5-Dibromotoluene (PID)	*90.7*		*ug/L*	*100.0*		*91*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*93.9*		*ug/L*	*100.0*		*94*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0062 - MADEP EPH (W)										
Blank (P5C0062-BLK1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	BRL	100	ug/L							
C19-C36 Aliphatics	BRL	100	ug/L							
C11-C22 Aromatics	BRL	100	ug/L							
Surrogate: 1-Chlorooctadecane	*16.9*		*ug/L*	*20.00*		*85*	*40-140*			
Surrogate: o-Terphenyl	*18.5*		*ug/L*	*20.00*		*92*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*35.4*		*ug/L*	*40.00*		*88*	*40-140*			
Surrogate: 2-Bromonaphthalene	*32.8*		*ug/L*	*40.00*		*82*	*40-140*			
LCS (P5C0062-BS1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	379	100	ug/L	600.0		63	40-140			
C19-C36 Aliphatics	771	100	ug/L	800.0		96	40-140			
C11-C22 Aromatics	1350	100	ug/L	1700		79	40-140			
Surrogate: 1-Chlorooctadecane	*18.1*		*ug/L*	*20.00*		*91*	*40-140*			
Surrogate: o-Terphenyl	*18.4*		*ug/L*	*20.00*		*92*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*39.1*		*ug/L*	*40.00*		*98*	*40-140*			
Surrogate: 2-Bromonaphthalene	*37.8*		*ug/L*	*40.00*		*94*	*40-140*			
LCS Dup (P5C0062-BSD1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	249	100	ug/L	600.0		41	40-140	41	50	
C19-C36 Aliphatics	516	100	ug/L	800.0		65	40-140	40	50	
C11-C22 Aromatics	1050	100	ug/L	1700		62	40-140	25	50	
Surrogate: 1-Chlorooctadecane	*13.4*		*ug/L*	*20.00*		*67*	*40-140*			
Surrogate: o-Terphenyl	*14.5*		*ug/L*	*20.00*		*72*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*40.3*		*ug/L*	*40.00*		*101*	*40-140*			
Surrogate: 2-Bromonaphthalene	*33.9*		*ug/L*	*40.00*		*85*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030026
Time Submitted: 3/2/2015 5:00:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0054 - 3010A										
Blank (P5C0054-BLK1)				Prepared & Analyzed: 03/04/15						
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
LCS (P5C0054-BS1)				Prepared & Analyzed: 03/04/15						
Chromium	0.245	0.0050	mg/L	0.2500		98	80-120			
Lead	0.242	0.0050	mg/L	0.2500		97	80-120			
Matrix Spike (P5C0054-MS1)		**Source: 5030026-01**		Prepared & Analyzed: 03/04/15						
Chromium	0.533	0.0050	mg/L	0.2500	0.294	95	75-125			
Lead	0.235	0.0050	mg/L	0.2500	0.00632	91	75-125			
Matrix Spike Dup (P5C0054-MSD1)		**Source: 5030026-01**		Prepared & Analyzed: 03/04/15						
Chromium	0.520	0.0050	mg/L	0.2500	0.294	90	75-125	2	20	
Lead	0.230	0.0050	mg/L	0.2500	0.00632	89	75-125	2	20	

Sample Extraction Data

Prep Method: MADEP EPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5030026-02	P5C0062	1000 mL	2 mL	03/04/15 11:00

Prep Method: 625

Lab Number	Batch	Initial	Final	Date/Time
5030026-02	P5C0144	950 mL	1 mL	03/09/15 9:50

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
5030026-01	P5C0054	50 mL	50 mL	03/04/15 9:15
5030026-02	P5C0054	50 mL	50 mL	03/04/15 9:15
5030026-02	P5C0054	50 mL	50 mL	03/04/15 9:15
5030026-03	P5C0054	50 mL	50 mL	03/04/15 9:15
5030026-04	P5C0054	50 mL	50 mL	03/04/15 9:15
5030026-05	P5C0054	50 mL	50 mL	03/04/15 9:15

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
5030026-01	P5C0088	10 mL	10 mL	03/04/15 11:13
5030026-02	P5C0088	10 mL	10 mL	03/04/15 11:13
5030026-03	P5C0088	10 mL	10 mL	03/04/15 11:13
5030026-04	P5C0088	10 mL	10 mL	03/04/15 11:13
5030026-05	P5C0088	10 mL	10 mL	03/04/15 11:13

Prep Method: MADEP VPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5030026-01	P5C0048	44 mL	44 mL	03/03/15 14:39
5030026-02	P5C0048	44 mL	44 mL	03/03/15 14:39
5030026-03	P5C0048	44 mL	44 mL	03/03/15 14:39
5030026-04	P5C0048	44 mL	44 mL	03/03/15 14:39
5030026-05	P5C0048	44 mL	44 mL	03/03/15 14:39

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Charlotte Airport Rental Car Site
Short Hold Analysis: (Yes) (NO) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Michelle Friedman
Address: 5925 Carnegie Blvd, Suite 300 Charlotte, NC 28209
Purchase Order No./Billing Reference 60340238

Client Company Name: AECOM
Report To/Contact Name: James McDorman
Reporting Address: 6000 Fairview Rd Suite 200 Charlotte, NC 28210
Phone: 7045880330 Fax (Yes) (No): _____
Email Address: jm.mcdorman@aecom.com
EDD Type: PDF ___ Excel ___ Other _____
Site Location Name: Rental Car Facilities
Site Location Physical Address: _____

Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days
"Working Days" ❑ 6-9 Days ❑ Standard 10 days ❑ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: DET-40 Observed: 4.4 °C / Corr: 3.5 °C 3.5 TBC 3/3/15

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ DoD ___ FL ___ NC X ___
SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO X
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED: VOCs by 6200B MODIFIED	VPH	Lead	SVOCs by 8270C 625	EPH MADEP	REMARKS	PRISM LAB ID NO.
Dollar TMW-3	3/2/15	0935	Water	P/G	1/5	—	HCl/HNO3	X	X	X			Low Boiling Point	01
Dollar TMW-6		1100		P/G/A	1/8/2	—	HCl/HNO3/none	X	X	X	X	X	Medium/High Boiling Point	02
Avis TMW-6		1310		P/G	1/8	—	HCl/HNO3	X	X	X			Low Boiling Point	03
National TMW-2		1500		P/G	1/6	—		X	X	X				04
National TMW-3		1505		P/G	1/5	—		X	X	X				05

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature Ryan Hill Sampled By (Print Name) Ryan Hill Affiliation AECOM

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) Ryan Hill	Received By: (Signature)	3/2/15	1700
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 3/2/15	1700

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
❑ Fed Ex ❑ UPS X Hand-delivered ❑ Prism Field Service ❑ Other _____
COC Group No. 5030026

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC
❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____	❑ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

04/15/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 03/03/2015
Prism Work Order: 5030051

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

This is a Revised Report and supercedes the original laboratory report dated 3/12/15. Client added Chromium to Sample ID Natioinal-TMW-4.

Samples were received on wet ice at a temperature of 10.2 degrees C.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones
President/Project Manager

Reviewed By Robbi A. Jones
President/Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L	Parameter reported with possible low bias. LCS recovery below the QC limit.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
SE	Surrogate recovery outside the QC limits due to emulsion.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Sample Receipt Summary

04/15/2015

Prism Work Order: 5030051

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
National TMW-1	5030051-01	Water	03/03/15	03/03/15
National TMW-4	5030051-02	Water	03/03/15	03/03/15

Samples were received at 10.2 degrees C. See case narrative for further information.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

04/15/2015

Prism Work Order: 5030051

Prism ID	Client ID	Parameter	Method	Result		Units
5030051-01	National TMW-1	C9-C18 Aliphatics	MADEP EPH	180		ug/L
5030051-01	National TMW-1	C11-C22 Aromatics	MADEP EPH	980		ug/L
5030051-01	National TMW-1	1-Methylnaphthalene	625	87		ug/L
5030051-01	National TMW-1	2-Methylnaphthalene	625	170		ug/L
5030051-01	National TMW-1	Naphthalene	625	570		ug/L
5030051-01	National TMW-1	Benzene, 1,2,3-trimethyl-	625	140		ug/L
5030051-01	National TMW-1	Benzene, 1,2-dimethyl-	625	750		ug/L
5030051-01	National TMW-1	Benzene, 1,3,5-trimethyl-	625	480		ug/L
5030051-01	National TMW-1	Benzene, 1-ethyl-2-methyl-	625	130		ug/L
5030051-01	National TMW-1	Benzene, 1-ethyl-3-methyl-	625	410		ug/L
5030051-01	National TMW-1	Indane	625	160		ug/L
5030051-01	National TMW-1	Toluene	625	1400		ug/L
5030051-01	National TMW-1	Unknown (1)	625	170		ug/L
5030051-01	National TMW-1	Unknown (2)	625	140		ug/L
5030051-01	National TMW-1	Unknown (3)	625	200		ug/L
5030051-01	National TMW-1	Lead	*6010C	0.0093		mg/L
5030051-01	National TMW-1	1,2,4-Trimethylbenzene	SM6200 B	2400		ug/L
5030051-01	National TMW-1	1,3,5-Trimethylbenzene	SM6200 B	660		ug/L
5030051-01	National TMW-1	Acetone	SM6200 B	130	J	ug/L
5030051-01	National TMW-1	Benzene	SM6200 B	3500		ug/L
5030051-01	National TMW-1	Ethylbenzene	SM6200 B	2800		ug/L
5030051-01	National TMW-1	Isopropyl Ether	SM6200 B	33		ug/L
5030051-01	National TMW-1	Isopropylbenzene (Cumene)	SM6200 B	130		ug/L
5030051-01	National TMW-1	m,p-Xylenes	SM6200 B	8400		ug/L
5030051-01	National TMW-1	Methyl Butyl Ketone (2-Hexanone)	SM6200 B	340		ug/L
5030051-01	National TMW-1	Methyl Ethyl Ketone (2-Butanone)	SM6200 B	510		ug/L
5030051-01	National TMW-1	Methyl-tert-Butyl Ether	SM6200 B	40	J	ug/L
5030051-01	National TMW-1	Naphthalene	SM6200 B	820		ug/L
5030051-01	National TMW-1	n-Propylbenzene	SM6200 B	360		ug/L
5030051-01	National TMW-1	o-Xylene	SM6200 B	4000		ug/L
5030051-01	National TMW-1	tert-Amyl Alcohol	SM6200 B	1900		ug/L
5030051-01	National TMW-1	Toluene	SM6200 B	15000		ug/L
5030051-01	National TMW-1	Xylenes, total	SM6200 B	12000		ug/L
5030051-01	National TMW-1	C5-C8 Aliphatics	MADEP VPH	55000		ug/L
5030051-01	National TMW-1	C9-C12 Aliphatics	MADEP VPH	32000		ug/L
5030051-01	National TMW-1	C9-C10 Aromatics	MADEP VPH	8100		ug/L
5030051-02	National TMW-4	Unknown (1)	625	13		ug/L
5030051-02	National TMW-4	Chromium	*6010C	0.024		mg/L
5030051-02	National TMW-4	Lead	*6010C	0.0079		mg/L
5030051-02	National TMW-4	Isopropyl Ether	SM6200 B	1.1		ug/L
5030051-02	National TMW-4	Methylene Chloride	SM6200 B	0.58	J	ug/L
5030051-02	National TMW-4	Methyl-tert-Butyl Ether	SM6200 B	10		ug/L
5030051-02	National TMW-4	C5-C8 Aliphatics	MADEP VPH	15	J	ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-1
Prism Sample ID: 5030051-01
Prism Work Order: 5030051
Time Collected: 03/03/15 10:45
Time Submitted: 03/03/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	**180**	**ug/L**	**100**	**25**	**1**	**MADEP EPH**	**3/6/15 15:37**	**KC**	**P5C0062**
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/6/15 15:37	KC	P5C0062
C11-C22 Aromatics	**980**	**ug/L**	**100**	**20**	**1**	**MADEP EPH**	**3/6/15 15:37**	**KC**	**P5C0062**
			Surrogate			Recovery		Control Limits	
			1-Chlorooctadecane			*79 %*		*40-140*	
			o-Terphenyl			*91 %*		*40-140*	
			2-Fluorobiphenyl			*102 %*		*40-140*	
			2-Bromonaphthalene			*104 %*		*40-140*	
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/11/15 14:07	KC	P5C0144
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/11/15 14:07	KC	P5C0144
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/11/15 14:07	KC	P5C0144
1-Methylnaphthalene	**87**	**ug/L**	**10**	**1.6**	**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/11/15 14:07	KC	P5C0144
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/11/15 14:07	KC	P5C0144
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/11/15 14:07	KC	P5C0144
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/11/15 14:07	KC	P5C0144
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/11/15 14:07	KC	P5C0144
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/11/15 14:07	KC	P5C0144
2-Methylnaphthalene	**170**	**ug/L**	**10**	**1.7**	**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/11/15 14:07	KC	P5C0144
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/11/15 14:07	KC	P5C0144
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/11/15 14:07	KC	P5C0144
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/11/15 14:07	KC	P5C0144
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/11/15 14:07	KC	P5C0144
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/11/15 14:07	KC	P5C0144
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/11/15 14:07	KC	P5C0144
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/11/15 14:07	KC	P5C0144
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
Anthracene	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
Benzidine	BRL	ug/L	100	2.9	1	625	3/11/15 14:07	KC	P5C0144
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/11/15 14:07	KC	P5C0144
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/11/15 14:07	KC	P5C0144
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/11/15 14:07	KC	P5C0144
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/11/15 14:07	KC	P5C0144

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-1
Prism Sample ID: 5030051-01
Prism Work Order: 5030051
Time Collected: 03/03/15 10:45
Time Submitted: 03/03/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/11/15 14:07	KC	P5C0144
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/11/15 14:07	KC	P5C0144
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/11/15 14:07	KC	P5C0144
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/11/15 14:07	KC	P5C0144
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/11/15 14:07	KC	P5C0144
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/11/15 14:07	KC	P5C0144
Chrysene	BRL	ug/L	10	1.4	1	625	3/11/15 14:07	KC	P5C0144
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	3/11/15 14:07	KC	P5C0144
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/11/15 14:07	KC	P5C0144
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/11/15 14:07	KC	P5C0144
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/11/15 14:07	KC	P5C0144
Fluorene	BRL	ug/L	10	1.5	1	625	3/11/15 14:07	KC	P5C0144
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/11/15 14:07	KC	P5C0144
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/11/15 14:07	KC	P5C0144
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/11/15 14:07	KC	P5C0144
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/11/15 14:07	KC	P5C0144
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/11/15 14:07	KC	P5C0144
Isophorone	BRL	ug/L	10	1.5	1	625	3/11/15 14:07	KC	P5C0144
Naphthalene	**570**	**ug/L**	**100**	**16**	**10**	**625**	**3/11/15 15:10**	**KC**	**P5C0144**
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/11/15 14:07	KC	P5C0144
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/11/15 14:07	KC	P5C0144
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/11/15 14:07	KC	P5C0144
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/11/15 14:07	KC	P5C0144
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/11/15 14:07	KC	P5C0144
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/11/15 14:07	KC	P5C0144
Phenol	BRL	ug/L	10	0.90	1	625	3/11/15 14:07	KC	P5C0144
Pyrene	BRL	ug/L	10	1.5	1	625	3/11/15 14:07	KC	P5C0144
TIC: Benzene, 1,2,3-trimethyl-	**140**	**ug/L**			**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**
TIC: Benzene, 1,2-dimethyl-	**750**	**ug/L**			**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**
TIC: Benzene, 1,3,5-trimethyl-	**480**	**ug/L**			**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**
TIC: Benzene, 1-ethyl-2-methyl-	**130**	**ug/L**			**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**
TIC: Benzene, 1-ethyl-3-methyl-	**410**	**ug/L**			**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**
TIC: Indane	**160**	**ug/L**			**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**
TIC: Toluene	**1400**	**ug/L**			**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**
TIC: Unknown (1)	**170**	**ug/L**			**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**
TIC: Unknown (2)	**140**	**ug/L**			**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**
TIC: Unknown (3)	**200**	**ug/L**			**1**	**625**	**3/11/15 14:07**	**KC**	**P5C0144**

Surrogate	Recovery	Control Limits	
2,4,6-Tribromophenol	*2 %*	*31-144*	*SE*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-1
Prism Sample ID: 5030051-01
Prism Work Order: 5030051
Time Collected: 03/03/15 10:45
Time Submitted: 03/03/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			2-Fluorobiphenyl			*89 %*		*49-118*	
			2-Fluorophenol			*8 %*		*22-84*	*SE*
			Nitrobenzene-d5			*104 %*		*43-123*	
			Phenol-d5			*2 %*		*10-63*	*SE*
			Terphenyl-d14			*95 %*		*49-151*	
Total Metals									
Lead	**0.0093**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**3/4/15 17:25**	**BGM**	**P5C0054**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	25	5.6	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,1,1-Trichloroethane	BRL	ug/L	25	3.1	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,1,2,2-Tetrachloroethane	BRL	ug/L	25	1.8	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,1,2-Trichloroethane	BRL	ug/L	25	3.3	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,1-Dichloroethane	BRL	ug/L	25	4.2	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,1-Dichloroethylene	BRL	ug/L	25	4.1	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,1-Dichloropropylene	BRL	ug/L	25	2.6	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,2,3-Trichlorobenzene	BRL	ug/L	25	20	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,2,3-Trichloropropane	BRL	ug/L	25	6.8	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,2,4-Trichlorobenzene	BRL	ug/L	25	6.6	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,2,4-Trimethylbenzene	**2400**	**ug/L**	**25**	**2.7**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
1,2-Dibromo-3-chloropropane	BRL	ug/L	100	8.4	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,2-Dibromoethane	BRL	ug/L	25	2.5	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,2-Dichlorobenzene	BRL	ug/L	25	3.8	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,2-Dichloroethane	BRL	ug/L	25	3.3	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,2-Dichloropropane	BRL	ug/L	25	5.5	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,3,5-Trimethylbenzene	**660**	**ug/L**	**25**	**3.8**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
1,3-Dichlorobenzene	BRL	ug/L	25	2.7	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,3-Dichloropropane	BRL	ug/L	25	2.2	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
1,4-Dichlorobenzene	BRL	ug/L	25	2.5	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
2,2-Dichloropropane	BRL	ug/L	100	5.6	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
2-Chlorotoluene	BRL	ug/L	25	3.3	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
4-Chlorotoluene	BRL	ug/L	25	2.5	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
4-Isopropyltoluene	BRL	ug/L	25	4.4	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Acetone	**130 J**	**ug/L**	**500**	**16**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
Benzene	**3500**	**ug/L**	**25**	**2.4**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
Bromobenzene	BRL	ug/L	25	2.8	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Bromochloromethane	BRL	ug/L	25	7.2	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Bromodichloromethane	BRL	ug/L	25	3.1	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Bromoform	BRL	ug/L	25	2.0	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Bromomethane	BRL	ug/L	50	9.0	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Carbon Tetrachloride	BRL	ug/L	25	5.4	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Chlorobenzene	BRL	ug/L	25	3.1	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Chloroethane	BRL	ug/L	25	11	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Chloroform	BRL	ug/L	25	3.8	50	SM6200 B	3/5/15 23:32	VHL	P5C0120

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-1
Prism Sample ID: 5030051-01
Prism Work Order: 5030051
Time Collected: 03/03/15 10:45
Time Submitted: 03/03/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloromethane	BRL	ug/L	25	3.9	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
cis-1,2-Dichloroethylene	BRL	ug/L	25	2.8	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
cis-1,3-Dichloropropylene	BRL	ug/L	25	3.9	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Dibromochloromethane	BRL	ug/L	25	4.0	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Dibromomethane	BRL	ug/L	25	3.3	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Dichlorodifluoromethane	BRL	ug/L	50	5.7	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Ethanol	BRL	ug/L	10000	1400	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Ethylbenzene	**2800**	**ug/L**	**25**	**3.1**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
Hexachlorobutadiene	BRL	ug/L	100	7.8	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Isopropyl Ether	**33**	**ug/L**	**25**	**2.5**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
Isopropylbenzene (Cumene)	**130**	**ug/L**	**25**	**2.7**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
m,p-Xylenes	**8400**	**ug/L**	**50**	**5.8**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
Methyl Butyl Ketone (2-Hexanone)	**340**	**ug/L**	**50**	**3.2**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
Methyl Ethyl Ketone (2-Butanone)	**510**	**ug/L**	**250**	**12**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
Methyl Isobutyl Ketone	BRL	ug/L	50	3.9	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Methylene Chloride	BRL	ug/L	100	4.1	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Methyl-tert-Butyl Ether	**40 J**	**ug/L**	**50**	**2.1**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
Naphthalene	**820**	**ug/L**	**50**	**9.6**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
n-Butylbenzene	BRL	ug/L	25	3.8	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
n-Propylbenzene	**360**	**ug/L**	**25**	**4.3**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
o-Xylene	**4000**	**ug/L**	**25**	**2.2**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
sec-Butylbenzene	BRL	ug/L	25	3.8	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Styrene	BRL	ug/L	25	2.4	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
tert-Amyl Alcohol	**1900**	**ug/L**	**500**	**36**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**
tert-Amyl Methyl Ether	BRL	ug/L	500	5.2	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
tert-Butyl Alcohol	BRL	ug/L	500	32	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
tert-Butylbenzene	BRL	ug/L	25	4.4	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
tert-Butyl Ethyl Ether	BRL	ug/L	500	2.9	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
tert-Butyl Formate	BRL	ug/L	500	13	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Tetrachloroethylene	BRL	ug/L	25	4.9	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Toluene	**15000**	**ug/L**	**500**	**44**	**1000**	**SM6200 B**	**3/6/15 0:06**	**VHL**	**P5C0120**
trans-1,2-Dichloroethylene	BRL	ug/L	25	3.5	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
trans-1,3-Dichloropropylene	BRL	ug/L	25	6.2	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Trichloroethylene	BRL	ug/L	25	3.9	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Trichlorofluoromethane	BRL	ug/L	25	3.1	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Vinyl acetate	BRL	ug/L	250	3.0	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Vinyl chloride	BRL	ug/L	25	4.8	50	SM6200 B	3/5/15 23:32	VHL	P5C0120
Xylenes, total	**12000**	**ug/L**	**75**	**7.4**	**50**	**SM6200 B**	**3/5/15 23:32**	**VHL**	**P5C0120**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*70-130*
Dibromofluoromethane	*101 %*	*70-130*
Toluene-d8	*105 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-1
Prism Sample ID: 5030051-01
Prism Work Order: 5030051
Time Collected: 03/03/15 10:45
Time Submitted: 03/03/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Petroleum Hydrocarbons by GC/PID/FID									
C5-C8 Aliphatics	**55000**	**ug/L**	**5000**	**120**	**100**	**MADEP VPH**	**3/9/15 21:56**	**ANG**	**P5C0152**
C9-C12 Aliphatics	**32000**	**ug/L**	**5000**	**130**	**100**	**MADEP VPH**	**3/9/15 21:56**	**ANG**	**P5C0152**
C9-C10 Aromatics	**8100**	**ug/L**	**5000**	**140**	**100**	**MADEP VPH**	**3/9/15 21:56**	**ANG**	**P5C0152**

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*94 %*	*70-130*
2,5-Dibromotoluene (FID)	*100 %*	*70-130*

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-4
Prism Sample ID: 5030051-02
Prism Work Order: 5030051
Time Collected: 03/03/15 08:55
Time Submitted: 03/03/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/6/15 16:13	KC	P5C0062
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/6/15 16:13	KC	P5C0062
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/6/15 16:13	KC	P5C0062
			Surrogate			Recovery	Control Limits		
			1-Chlorooctadecane			*71 %*	*40-140*		
			o-Terphenyl			*96 %*	*40-140*		
			2-Fluorobiphenyl			*94 %*	*40-140*		
			2-Bromonaphthalene			*83 %*	*40-140*		
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/11/15 14:28	KC	P5C0144
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/11/15 14:28	KC	P5C0144
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/11/15 14:28	KC	P5C0144
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/11/15 14:28	KC	P5C0144
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/11/15 14:28	KC	P5C0144
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/11/15 14:28	KC	P5C0144
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/11/15 14:28	KC	P5C0144
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/11/15 14:28	KC	P5C0144
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/11/15 14:28	KC	P5C0144
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	3/11/15 14:28	KC	P5C0144
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/11/15 14:28	KC	P5C0144
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/11/15 14:28	KC	P5C0144
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/11/15 14:28	KC	P5C0144
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/11/15 14:28	KC	P5C0144
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/11/15 14:28	KC	P5C0144
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/11/15 14:28	KC	P5C0144
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/11/15 14:28	KC	P5C0144
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/11/15 14:28	KC	P5C0144
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
Anthracene	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
Benzidine	BRL	ug/L	100	2.9	1	625	3/11/15 14:28	KC	P5C0144
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/11/15 14:28	KC	P5C0144
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/11/15 14:28	KC	P5C0144
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/11/15 14:28	KC	P5C0144
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/11/15 14:28	KC	P5C0144
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/11/15 14:28	KC	P5C0144

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-4
Prism Sample ID: 5030051-02
Prism Work Order: 5030051
Time Collected: 03/03/15 08:55
Time Submitted: 03/03/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/11/15 14:28	KC	P5C0144
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/11/15 14:28	KC	P5C0144
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/11/15 14:28	KC	P5C0144
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/11/15 14:28	KC	P5C0144
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/11/15 14:28	KC	P5C0144
Chrysene	BRL	ug/L	10	1.4	1	625	3/11/15 14:28	KC	P5C0144
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	3/11/15 14:28	KC	P5C0144
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/11/15 14:28	KC	P5C0144
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/11/15 14:28	KC	P5C0144
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/11/15 14:28	KC	P5C0144
Fluorene	BRL	ug/L	10	1.5	1	625	3/11/15 14:28	KC	P5C0144
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/11/15 14:28	KC	P5C0144
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/11/15 14:28	KC	P5C0144
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/11/15 14:28	KC	P5C0144
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/11/15 14:28	KC	P5C0144
Isophorone	BRL	ug/L	10	1.5	1	625	3/11/15 14:28	KC	P5C0144
Naphthalene	BRL	ug/L	10	1.6	1	625	3/11/15 14:28	KC	P5C0144
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/11/15 14:28	KC	P5C0144
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/11/15 14:28	KC	P5C0144
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/11/15 14:28	KC	P5C0144
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/11/15 14:28	KC	P5C0144
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/11/15 14:28	KC	P5C0144
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/11/15 14:28	KC	P5C0144
Phenol	BRL	ug/L	10	0.90	1	625	3/11/15 14:28	KC	P5C0144
Pyrene	BRL	ug/L	10	1.5	1	625	3/11/15 14:28	KC	P5C0144
TIC: Unknown (1)	**13**	**ug/L**			**1**	**625**	**3/11/15 14:28**	**KC**	**P5C0144**

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*76 %*	*31-144*
2-Fluorobiphenyl	*89 %*	*49-118*
2-Fluorophenol	*53 %*	*22-84*
Nitrobenzene-d5	*81 %*	*43-123*
Phenol-d5	*34 %*	*10-63*
Terphenyl-d14	*98 %*	*49-151*

Total Metals

Chromium	**0.024**	**mg/L**	**0.0050**	**0.00038**	**1**	***6010C**	**3/4/15 17:33**	**BGM**	**P5C0054**
Lead	**0.0079**	**mg/L**	**0.0050**	**0.00057**	**1**	***6010C**	**3/4/15 17:33**	**BGM**	**P5C0054**

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/5/15 15:34	VHL	P5C0120

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-4
Prism Sample ID: 5030051-02
Prism Work Order: 5030051
Time Collected: 03/03/15 08:55
Time Submitted: 03/03/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Benzene	BRL	ug/L	0.50	0.048	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Ethylbenzene	BRL	ug/L	0.50	0.061	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/5/15 15:34	VHL	P5C0120

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National TMW-4
Prism Sample ID: 5030051-02
Prism Work Order: 5030051
Time Collected: 03/03/15 08:55
Time Submitted: 03/03/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Isopropyl Ether	**1.1**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**3/5/15 15:34**	**VHL**	**P5C0120**
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Methylene Chloride	**0.58 J**	**ug/L**	**2.0**	**0.083**	**1**	**SM6200 B**	**3/5/15 15:34**	**VHL**	**P5C0120**
Methyl-tert-Butyl Ether	**10**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**3/5/15 15:34**	**VHL**	**P5C0120**
Naphthalene	BRL	ug/L	1.0	0.19	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
o-Xylene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
tert-Amyl Alcohol	BRL	ug/L	10	0.72	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
tert-Amyl Methyl Ether	BRL	ug/L	10	0.10	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
tert-Butyl Alcohol	BRL	ug/L	10	0.64	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Toluene	BRL	ug/L	0.50	0.044	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/5/15 15:34	VHL	P5C0120
Xylenes, total	BRL	ug/L	1.5	0.15	1	SM6200 B	3/5/15 15:34	VHL	P5C0120

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*108 %*	*70-130*
Dibromofluoromethane	*107 %*	*70-130*
Toluene-d8	*104 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**15 J**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/9/15 21:23**	**ANG**	**P5C0152**
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	3/9/15 21:23	ANG	P5C0152
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	3/9/15 21:23	ANG	P5C0152

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*95 %*	*70-130*
2,5-Dibromotoluene (FID)	*101 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
Blank (P5C0120-BLK1)				Prepared & Analyzed: 03/05/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	0.50	ug/L							
1,2,4-Trichlorobenzene	BRL	0.50	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	10	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	0.50	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethanol	BRL	200	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
Blank (P5C0120-BLK1)				Prepared & Analyzed: 03/05/15						
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	1.0	ug/L							
Methylene Chloride	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	1.0	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	0.50	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Amyl Alcohol	BRL	10	ug/L							
tert-Amyl Methyl Ether	BRL	10	ug/L							
tert-Butyl Alcohol	BRL	10	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
tert-Butyl Ethyl Ether	BRL	10	ug/L							
tert-Butyl Formate	BRL	10	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	5.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*27.4*		*ug/L*	*25.00*		*109*	*70-130*			
Surrogate: Dibromofluoromethane	*26.6*		*ug/L*	*25.00*		*106*	*70-130*			
Surrogate: Toluene-d8	*26.7*		*ug/L*	*25.00*		*107*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
LCS (P5C0120-BS1)				Prepared & Analyzed: 03/05/15						
1,1,1,2-Tetrachloroethane	18.8	0.50	ug/L	20.00		94	70-130			
1,1,1-Trichloroethane	19.9	0.50	ug/L	20.00		99	70-130			
1,1,2,2-Tetrachloroethane	19.0	0.50	ug/L	20.00		95	70-130			
1,1,2-Trichloroethane	17.9	0.50	ug/L	20.00		90	70-130			
1,1-Dichloroethane	19.9	0.50	ug/L	20.00		100	70-130			
1,1-Dichloroethylene	20.6	0.50	ug/L	20.00		103	70-130			
1,1-Dichloropropylene	20.5	0.50	ug/L	20.00		102	70-130			
1,2,3-Trichlorobenzene	19.9	0.50	ug/L	20.00		100	70-130			
1,2,3-Trichloropropane	18.2	0.50	ug/L	20.00		91	70-130			
1,2,4-Trichlorobenzene	20.7	0.50	ug/L	20.00		104	70-130			
1,2,4-Trimethylbenzene	21.3	0.50	ug/L	20.00		106	70-130			
1,2-Dibromo-3-chloropropane	18.1	2.0	ug/L	20.00		91	70-130			
1,2-Dibromoethane	19.5	0.50	ug/L	20.00		98	70-130			
1,2-Dichlorobenzene	20.9	0.50	ug/L	20.00		105	70-130			
1,2-Dichloroethane	17.6	0.50	ug/L	20.00		88	70-130			
1,2-Dichloropropane	19.6	0.50	ug/L	20.00		98	70-130			
1,3,5-Trimethylbenzene	21.6	0.50	ug/L	20.00		108	70-130			
1,3-Dichlorobenzene	20.2	0.50	ug/L	20.00		101	70-130			
1,3-Dichloropropane	18.8	0.50	ug/L	20.00		94	70-130			
1,4-Dichlorobenzene	19.8	0.50	ug/L	20.00		99	70-130			
2,2-Dichloropropane	19.5	2.0	ug/L	20.00		98	70-130			
2-Chlorotoluene	20.3	0.50	ug/L	20.00		101	70-130			
4-Chlorotoluene	20.3	0.50	ug/L	20.00		102	70-130			
4-Isopropyltoluene	21.7	0.50	ug/L	20.00		108	70-130			
Acetone	41.1	10	ug/L	40.00		103	40-160			
Benzene	20.8	0.50	ug/L	20.00		104	70-130			
Bromobenzene	19.3	0.50	ug/L	20.00		97	70-130			
Bromochloromethane	20.3	0.50	ug/L	20.00		101	70-130			
Bromodichloromethane	17.2	0.50	ug/L	20.00		86	70-130			
Bromoform	18.2	0.50	ug/L	20.00		91	70-130			
Bromomethane	18.8	1.0	ug/L	20.00		94	60-140			
Carbon Tetrachloride	19.6	0.50	ug/L	20.00		98	70-130			
Chlorobenzene	20.2	0.50	ug/L	20.00		101	70-130			
Chloroethane	20.6	0.50	ug/L	20.00		103	60-140			
Chloroform	17.7	0.50	ug/L	20.00		89	70-130			
Chloromethane	20.9	0.50	ug/L	20.00		104	60-140			
cis-1,2-Dichloroethylene	20.1	0.50	ug/L	20.00		101	70-130			
cis-1,3-Dichloropropylene	19.5	0.50	ug/L	20.00		97	70-130			
Dibromochloromethane	18.0	0.50	ug/L	20.00		90	70-130			
Dibromomethane	17.6	0.50	ug/L	20.00		88	70-130			
Dichlorodifluoromethane	22.5	1.0	ug/L	20.00		113	60-140			
Ethanol	473	200	ug/L	500.0		95	60-140			
Ethylbenzene	20.0	0.50	ug/L	20.00		100	70-130			
Hexachlorobutadiene	20.5	2.0	ug/L	20.00		102	70-130			
Isopropyl Ether	17.3	0.50	ug/L	20.00		86	70-130			
Isopropylbenzene (Cumene)	22.4	0.50	ug/L	20.00		112	70-130			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
LCS (P5C0120-BS1)				Prepared & Analyzed: 03/05/15						
m,p-Xylenes	41.1	1.0	ug/L	40.00		103	70-130			
Methyl Butyl Ketone (2-Hexanone)	19.3	1.0	ug/L	20.00		96	60-140			
Methyl Ethyl Ketone (2-Butanone)	18.5	5.0	ug/L	20.00		93	60-140			
Methyl Isobutyl Ketone	17.9	1.0	ug/L	20.00		89	60-140			
Methylene Chloride	21.4	2.0	ug/L	20.00		107	70-130			
Methyl-tert-Butyl Ether	19.2	1.0	ug/L	20.00		96	70-130			
Naphthalene	19.2	1.0	ug/L	20.00		96	70-130			
n-Butylbenzene	21.3	0.50	ug/L	20.00		106	70-130			
n-Propylbenzene	21.4	0.50	ug/L	20.00		107	70-130			
o-Xylene	20.8	0.50	ug/L	20.00		104	70-130			
sec-Butylbenzene	20.5	0.50	ug/L	20.00		103	70-130			
Styrene	21.0	0.50	ug/L	20.00		105	70-130			
tert-Amyl Alcohol	16.8	10	ug/L	20.00		84	70-130			
tert-Amyl Methyl Ether	38.4	10	ug/L	40.00		96	70-130			
tert-Butyl Alcohol	31.5	10	ug/L	40.00		79	70-130			
tert-Butylbenzene	21.4	0.50	ug/L	20.00		107	70-130			
tert-Butyl Ethyl Ether	39.3	10	ug/L	40.00		98	70-130			
tert-Butyl Formate	31.2	10	ug/L	40.00		78	70-130			
Tetrachloroethylene	19.8	0.50	ug/L	20.00		99	70-130			
Toluene	19.5	0.50	ug/L	20.00		98	70-130			
trans-1,2-Dichloroethylene	20.7	0.50	ug/L	20.00		103	70-130			
trans-1,3-Dichloropropylene	18.4	0.50	ug/L	20.00		92	70-130			
Trichloroethylene	20.4	0.50	ug/L	20.00		102	70-130			
Trichlorofluoromethane	20.5	0.50	ug/L	20.00		102	60-140			
Vinyl acetate	20.8	5.0	ug/L	20.00		104	60-140			
Vinyl chloride	22.2	0.50	ug/L	20.00		111	60-140			
Xylenes, total	62.0	1.5	ug/L	60.00		103	70-130			
Surrogate: 4-Bromofluorobenzene	*26.2*		*ug/L*	*25.00*		*105*	*70-130*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/L*	*25.00*		*100*	*70-130*			
Surrogate: Toluene-d8	*26.5*		*ug/L*	*25.00*		*106*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
LCS Dup (P5C0120-BSD1)				Prepared & Analyzed: 03/05/15						
1,1,1,2-Tetrachloroethane	19.0	0.50	ug/L	20.00		95	70-130	1	20	
1,1,1-Trichloroethane	20.0	0.50	ug/L	20.00		100	70-130	1	20	
1,1,2,2-Tetrachloroethane	18.0	0.50	ug/L	20.00		90	70-130	6	20	
1,1,2-Trichloroethane	18.5	0.50	ug/L	20.00		92	70-130	3	20	
1,1-Dichloroethane	19.9	0.50	ug/L	20.00		99	70-130	0.3	20	
1,1-Dichloroethylene	21.2	0.50	ug/L	20.00		106	70-130	3	20	
1,1-Dichloropropylene	20.9	0.50	ug/L	20.00		104	70-130	2	20	
1,2,3-Trichlorobenzene	19.8	0.50	ug/L	20.00		99	70-130	0.6	20	
1,2,3-Trichloropropane	18.4	0.50	ug/L	20.00		92	70-130	1	20	
1,2,4-Trichlorobenzene	19.9	0.50	ug/L	20.00		100	70-130	4	20	
1,2,4-Trimethylbenzene	20.8	0.50	ug/L	20.00		104	70-130	2	20	
1,2-Dibromo-3-chloropropane	19.2	2.0	ug/L	20.00		96	70-130	6	20	
1,2-Dibromoethane	19.5	0.50	ug/L	20.00		97	70-130	0.3	20	
1,2-Dichlorobenzene	19.3	0.50	ug/L	20.00		97	70-130	8	20	
1,2-Dichloroethane	18.6	0.50	ug/L	20.00		93	70-130	6	20	
1,2-Dichloropropane	19.1	0.50	ug/L	20.00		95	70-130	3	20	
1,3,5-Trimethylbenzene	21.3	0.50	ug/L	20.00		107	70-130	2	20	
1,3-Dichlorobenzene	19.5	0.50	ug/L	20.00		98	70-130	3	20	
1,3-Dichloropropane	18.2	0.50	ug/L	20.00		91	70-130	3	20	
1,4-Dichlorobenzene	19.8	0.50	ug/L	20.00		99	70-130	0.2	20	
2,2-Dichloropropane	20.0	2.0	ug/L	20.00		100	70-130	2	20	
2-Chlorotoluene	19.7	0.50	ug/L	20.00		99	70-130	3	20	
4-Chlorotoluene	19.6	0.50	ug/L	20.00		98	70-130	4	20	
4-Isopropyltoluene	20.6	0.50	ug/L	20.00		103	70-130	5	20	
Acetone	39.3	10	ug/L	40.00		98	40-160	4	20	
Benzene	20.7	0.50	ug/L	20.00		104	70-130	0.5	20	
Bromobenzene	18.7	0.50	ug/L	20.00		93	70-130	3	20	
Bromochloromethane	20.3	0.50	ug/L	20.00		102	70-130	0.1	20	
Bromodichloromethane	17.9	0.50	ug/L	20.00		89	70-130	4	20	
Bromoform	18.2	0.50	ug/L	20.00		91	70-130	0.5	20	
Bromomethane	19.6	1.0	ug/L	20.00		98	60-140	4	20	
Carbon Tetrachloride	18.8	0.50	ug/L	20.00		94	70-130	4	20	
Chlorobenzene	19.6	0.50	ug/L	20.00		98	70-130	3	20	
Chloroethane	20.0	0.50	ug/L	20.00		100	60-140	3	20	
Chloroform	17.8	0.50	ug/L	20.00		89	70-130	0.3	20	
Chloromethane	21.7	0.50	ug/L	20.00		108	60-140	4	20	
cis-1,2-Dichloroethylene	20.2	0.50	ug/L	20.00		101	70-130	0.6	20	
cis-1,3-Dichloropropylene	20.2	0.50	ug/L	20.00		101	70-130	4	20	
Dibromochloromethane	18.2	0.50	ug/L	20.00		91	70-130	0.8	20	
Dibromomethane	18.5	0.50	ug/L	20.00		92	70-130	5	20	
Dichlorodifluoromethane	22.6	1.0	ug/L	20.00		113	60-140	0.4	20	
Ethanol	551	200	ug/L	500.0		110	60-140	15	20	
Ethylbenzene	20.2	0.50	ug/L	20.00		101	70-130	0.7	20	
Hexachlorobutadiene	19.4	2.0	ug/L	20.00		97	70-130	5	20	
Isopropyl Ether	17.5	0.50	ug/L	20.00		88	70-130	1	20	
Isopropylbenzene (Cumene)	21.1	0.50	ug/L	20.00		106	70-130	6	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
LCS Dup (P5C0120-BSD1)				Prepared & Analyzed: 03/05/15						
m,p-Xylenes	41.3	1.0	ug/L	40.00		103	70-130	0.5	20	
Methyl Butyl Ketone (2-Hexanone)	19.2	1.0	ug/L	20.00		96	60-140	0.6	20	
Methyl Ethyl Ketone (2-Butanone)	18.9	5.0	ug/L	20.00		94	60-140	2	20	
Methyl Isobutyl Ketone	18.7	1.0	ug/L	20.00		93	60-140	4	20	
Methylene Chloride	22.0	2.0	ug/L	20.00		110	70-130	3	20	
Methyl-tert-Butyl Ether	19.9	1.0	ug/L	20.00		100	70-130	3	20	
Naphthalene	18.9	1.0	ug/L	20.00		95	70-130	2	20	
n-Butylbenzene	20.4	0.50	ug/L	20.00		102	70-130	4	20	
n-Propylbenzene	20.7	0.50	ug/L	20.00		104	70-130	3	20	
o-Xylene	20.4	0.50	ug/L	20.00		102	70-130	2	20	
sec-Butylbenzene	19.5	0.50	ug/L	20.00		98	70-130	5	20	
Styrene	20.4	0.50	ug/L	20.00		102	70-130	3	20	
tert-Amyl Alcohol	18.1	10	ug/L	20.00		90	70-130	8	20	
tert-Amyl Methyl Ether	39.7	10	ug/L	40.00		99	70-130	3	20	
tert-Butyl Alcohol	31.7	10	ug/L	40.00		79	70-130	0.6	20	
tert-Butylbenzene	20.4	0.50	ug/L	20.00		102	70-130	5	20	
tert-Butyl Ethyl Ether	41.2	10	ug/L	40.00		103	70-130	5	20	
tert-Butyl Formate	34.2	10	ug/L	40.00		85	70-130	9	20	
Tetrachloroethylene	19.5	0.50	ug/L	20.00		97	70-130	2	20	
Toluene	20.1	0.50	ug/L	20.00		100	70-130	3	20	
trans-1,2-Dichloroethylene	21.2	0.50	ug/L	20.00		106	70-130	2	20	
trans-1,3-Dichloropropylene	19.1	0.50	ug/L	20.00		96	70-130	4	20	
Trichloroethylene	19.7	0.50	ug/L	20.00		99	70-130	3	20	
Trichlorofluoromethane	19.9	0.50	ug/L	20.00		99	60-140	3	20	
Vinyl acetate	21.7	5.0	ug/L	20.00		109	60-140	4	20	
Vinyl chloride	22.1	0.50	ug/L	20.00		110	60-140	0.4	20	
Xylenes, total	61.7	1.5	ug/L	60.00		103	70-130	0.4	20	
Surrogate: 4-Bromofluorobenzene	*25.9*		*ug/L*	*25.00*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*25.3*		*ug/L*	*25.00*		*101*	*70-130*			
Surrogate: Toluene-d8	*26.3*		*ug/L*	*25.00*		*105*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
Blank (P5C0144-BLK1)				Prepared: 03/09/15 Analyzed: 03/11/15						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitrophenol	BRL	50	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Benzidine	BRL	100	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
Blank (P5C0144-BLK1)				Prepared: 03/09/15 Analyzed: 03/11/15						
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitrosodimethylamine	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Tentatively Identified Compounds	Not Detected		ug/L							
Surrogate: 2,4,6-Tribromophenol	*91.1*		*ug/L*	*100.0*		*91*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*50.1*		*ug/L*	*50.00*		*100*	*49-118*			
Surrogate: 2-Fluorophenol	*63.3*		*ug/L*	*100.0*		*63*	*22-84*			
Surrogate: Nitrobenzene-d5	*55.4*		*ug/L*	*50.00*		*111*	*43-123*			
Surrogate: Phenol-d5	*39.2*		*ug/L*	*100.0*		*39*	*10-63*			
Surrogate: Terphenyl-d14	*57.3*		*ug/L*	*50.00*		*115*	*49-151*			
LCS (P5C0144-BS1)				Prepared: 03/09/15 Analyzed: 03/11/15						
1,2,4-Trichlorobenzene	77.2	10	ug/L	100.0		77	44-142			
1,2-Dichlorobenzene	78.8	10	ug/L	100.0		79	32-129			
1,3-Dichlorobenzene	78.6	10	ug/L	100.0		79	20-124			
1,4-Dichlorobenzene	78.6	10	ug/L	100.0		79	20-124			
1-Methylnaphthalene	77.0	10	ug/L	100.0		77	40-135			
2,4,6-Trichlorophenol	84.6	10	ug/L	100.0		85	37-144			
2,4-Dichlorophenol	73.0	10	ug/L	100.0		73	39-135			
2,4-Dimethylphenol	73.9	10	ug/L	100.0		74	32-119			
2,4-Dinitrophenol	72.0	10	ug/L	100.0		72	10-191			
2,4-Dinitrotoluene	99.0	10	ug/L	100.0		99	39-139			
2,6-Dinitrotoluene	97.8	10	ug/L	100.0		98	50-158			
2-Chloronaphthalene	104	10	ug/L	100.0		104	60-118			
2-Chlorophenol	75.8	10	ug/L	100.0		76	23-134			
2-Methylnaphthalene	78.1	10	ug/L	100.0		78	18-121			
2-Nitrophenol	71.5	10	ug/L	100.0		72	29-182			
3,3'-Dichlorobenzidine	96.7	10	ug/L	100.0		97	10-262			
3/4-Methylphenol	72.2	10	ug/L	100.0		72	76-107			L
4,6-Dinitro-2-methylphenol	96.3	10	ug/L	100.0		96	10-181			
4-Bromophenyl phenyl ether	89.0	10	ug/L	100.0		89	53-127			
4-Chloro-3-methylphenol	75.2	10	ug/L	100.0		75	22-147			
4-Chloroaniline	90.3	10	ug/L	100.0		90	44-163			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
LCS (P5C0144-BS1)				Prepared: 03/09/15 Analyzed: 03/11/15						
4-Chlorophenyl phenyl ether	88.3	10	ug/L	100.0		88	25-158			
4-Nitrophenol	37.0	50	ug/L	100.0		37	10-132			J
Acenaphthene	88.6	10	ug/L	100.0		89	47-145			
Acenaphthylene	87.4	10	ug/L	100.0		87	33-145			
Anthracene	93.6	10	ug/L	100.0		94	27-133			
Benzidine	201	100	ug/L	100.0		201	15-150			LH
Benzo(a)anthracene	92.3	10	ug/L	100.0		92	33-143			
Benzo(a)pyrene	93.2	10	ug/L	100.0		93	17-163			
Benzo(b)fluoranthene	88.4	10	ug/L	100.0		88	24-159			
Benzo(g,h,i)perylene	90.5	10	ug/L	100.0		90	10-219			
Benzo(k)fluoranthene	93.8	10	ug/L	100.0		94	11-162			
Benzoic Acid	20.9	100	ug/L	100.0		21	10-125			J
Benzyl alcohol	63.3	10	ug/L	100.0		63	16-107			
bis(2-Chloroethoxy)methane	75.7	10	ug/L	100.0		76	33-184			
Bis(2-Chloroethyl)ether	85.4	10	ug/L	100.0		85	12-158			
Bis(2-chloroisopropyl)ether	75.4	10	ug/L	100.0		75	36-166			
Bis(2-Ethylhexyl)phthalate	88.7	10	ug/L	100.0		89	10-158			
Butyl benzyl phthalate	87.9	10	ug/L	100.0		88	10-152			
Chrysene	92.5	10	ug/L	100.0		93	17-168			
Dibenzo(a,h)anthracene	93.1	10	ug/L	100.0		93	10-227			
Dibenzofuran	85.2	10	ug/L	100.0		85	39-114			
Diethyl phthalate	85.5	10	ug/L	100.0		85	10-114			
Dimethyl phthalate	79.5	10	ug/L	100.0		80	10-112			
Di-n-butyl phthalate	89.4	10	ug/L	100.0		89	10-118			
Di-n-octyl phthalate	90.5	10	ug/L	100.0		91	10-146			
Fluoranthene	89.8	10	ug/L	100.0		90	26-137			
Fluorene	89.3	10	ug/L	100.0		89	59-121			
Hexachlorobenzene	93.5	10	ug/L	100.0		94	10-152			
Hexachlorobutadiene	73.9	10	ug/L	100.0		74	24-116			
Hexachlorocyclopentadiene	84.0	10	ug/L	100.0		84	32-117			
Hexachloroethane	79.2	10	ug/L	100.0		79	40-113			
Indeno(1,2,3-cd)pyrene	97.2	10	ug/L	100.0		97	10-171			
Isophorone	87.3	10	ug/L	100.0		87	21-196			
Naphthalene	74.4	10	ug/L	100.0		74	21-133			
Nitrobenzene	81.0	10	ug/L	100.0		81	35-180			
N-Nitrosodimethylamine	51.0	10	ug/L	100.0		51	10-119			
N-Nitroso-di-n-propylamine	87.1	10	ug/L	100.0		87	10-230			
N-Nitrosodiphenylamine	92.3	10	ug/L	100.0		92	69-152			
Pentachlorophenol	79.7	10	ug/L	100.0		80	14-176			
Phenanthrene	89.2	10	ug/L	100.0		89	54-120			
Phenol	43.0	10	ug/L	100.0		43	10-112			
Pyrene	89.5	10	ug/L	100.0		89	52-115			
Surrogate: 2,4,6-Tribromophenol	*83.2*		*ug/L*	*100.0*		*83*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*47.4*		*ug/L*	*50.00*		*95*	*49-118*			
Surrogate: 2-Fluorophenol	*56.5*		*ug/L*	*100.0*		*57*	*22-84*			
Surrogate: Nitrobenzene-d5	*41.5*		*ug/L*	*50.00*		*83*	*43-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
LCS (P5C0144-BS1)				Prepared: 03/09/15 Analyzed: 03/11/15						
Surrogate: Phenol-d5	*36.4*		*ug/L*	*100.0*		*36*	*10-63*			
Surrogate: Terphenyl-d14	*51.0*		*ug/L*	*50.00*		*102*	*49-151*			
LCS Dup (P5C0144-BSD1)				Prepared: 03/09/15 Analyzed: 03/11/15						
1,2,4-Trichlorobenzene	76.4	10	ug/L	100.0		76	44-142	1	20	
1,2-Dichlorobenzene	78.8	10	ug/L	100.0		79	32-129	0.04	20	
1,3-Dichlorobenzene	77.4	10	ug/L	100.0		77	20-124	2	20	
1,4-Dichlorobenzene	77.3	10	ug/L	100.0		77	20-124	2	20	
1-Methylnaphthalene	75.4	10	ug/L	100.0		75	40-135	2	20	
2,4,6-Trichlorophenol	88.9	10	ug/L	100.0		89	37-144	5	20	
2,4-Dichlorophenol	74.0	10	ug/L	100.0		74	39-135	1	20	
2,4-Dimethylphenol	74.6	10	ug/L	100.0		75	32-119	1	20	
2,4-Dinitrophenol	70.8	10	ug/L	100.0		71	10-191	2	20	
2,4-Dinitrotoluene	104	10	ug/L	100.0		104	39-139	4	20	
2,6-Dinitrotoluene	100	10	ug/L	100.0		100	50-158	3	20	
2-Chloronaphthalene	106	10	ug/L	100.0		106	60-118	2	20	
2-Chlorophenol	75.7	10	ug/L	100.0		76	23-134	0.2	20	
2-Methylnaphthalene	77.4	10	ug/L	100.0		77	18-121	0.9	20	
2-Nitrophenol	73.8	10	ug/L	100.0		74	29-182	3	20	
3,3'-Dichlorobenzidine	101	10	ug/L	100.0		101	10-262	4	20	
3/4-Methylphenol	73.1	10	ug/L	100.0		73	76-107	1	20	L
4,6-Dinitro-2-methylphenol	94.8	10	ug/L	100.0		95	10-181	2	20	
4-Bromophenyl phenyl ether	92.3	10	ug/L	100.0		92	53-127	4	20	
4-Chloro-3-methylphenol	77.2	10	ug/L	100.0		77	22-147	3	20	
4-Chloroaniline	89.8	10	ug/L	100.0		90	44-163	0.6	20	
4-Chlorophenyl phenyl ether	91.1	10	ug/L	100.0		91	25-158	3	20	
4-Nitrophenol	38.7	50	ug/L	100.0		39	10-132	5	20	J
Acenaphthene	90.2	10	ug/L	100.0		90	47-145	2	20	
Acenaphthylene	91.8	10	ug/L	100.0		92	33-145	5	20	
Anthracene	96.2	10	ug/L	100.0		96	27-133	3	20	
Benzidine	213	100	ug/L	100.0		213	15-150	6	20	LH
Benzo(a)anthracene	92.7	10	ug/L	100.0		93	33-143	0.5	20	
Benzo(a)pyrene	95.5	10	ug/L	100.0		96	17-163	2	20	
Benzo(b)fluoranthene	91.0	10	ug/L	100.0		91	24-159	3	20	
Benzo(g,h,i)perylene	91.4	10	ug/L	100.0		91	10-219	1	20	
Benzo(k)fluoranthene	94.4	10	ug/L	100.0		94	11-162	0.6	20	
Benzoic Acid	9.70	100	ug/L	100.0		10	10-125	73	20	D, J
Benzyl alcohol	65.0	10	ug/L	100.0		65	16-107	3	20	
bis(2-Chloroethoxy)methane	74.6	10	ug/L	100.0		75	33-184	1	20	
Bis(2-Chloroethyl)ether	83.1	10	ug/L	100.0		83	12-158	3	20	
Bis(2-chloroisopropyl)ether	75.3	10	ug/L	100.0		75	36-166	0.2	20	
Bis(2-Ethylhexyl)phthalate	91.1	10	ug/L	100.0		91	10-158	3	20	
Butyl benzyl phthalate	90.0	10	ug/L	100.0		90	10-152	2	20	
Chrysene	97.1	10	ug/L	100.0		97	17-168	5	20	
Dibenzo(a,h)anthracene	95.2	10	ug/L	100.0		95	10-227	2	20	
Dibenzofuran	87.0	10	ug/L	100.0		87	39-114	2	20	
Diethyl phthalate	89.0	10	ug/L	100.0		89	10-114	4	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
LCS Dup (P5C0144-BSD1)				Prepared: 03/09/15 Analyzed: 03/11/15						
Dimethyl phthalate	81.9	10	ug/L	100.0		82	10-112	3	20	
Di-n-butyl phthalate	91.2	10	ug/L	100.0		91	10-118	2	20	
Di-n-octyl phthalate	91.8	10	ug/L	100.0		92	10-146	1	20	
Fluoranthene	92.0	10	ug/L	100.0		92	26-137	2	20	
Fluorene	92.0	10	ug/L	100.0		92	59-121	3	20	
Hexachlorobenzene	94.8	10	ug/L	100.0		95	10-152	1	20	
Hexachlorobutadiene	74.6	10	ug/L	100.0		75	24-116	0.9	20	
Hexachlorocyclopentadiene	85.6	10	ug/L	100.0		86	32-117	2	20	
Hexachloroethane	79.6	10	ug/L	100.0		80	40-113	0.5	20	
Indeno(1,2,3-cd)pyrene	97.4	10	ug/L	100.0		97	10-171	0.2	20	
Isophorone	86.4	10	ug/L	100.0		86	21-196	1	20	
Naphthalene	73.6	10	ug/L	100.0		74	21-133	1	20	
Nitrobenzene	80.8	10	ug/L	100.0		81	35-180	0.2	20	
N-Nitrosodimethylamine	51.1	10	ug/L	100.0		51	10-119	0.3	20	
N-Nitroso-di-n-propylamine	86.6	10	ug/L	100.0		87	10-230	0.5	20	
N-Nitrosodiphenylamine	94.9	10	ug/L	100.0		95	69-152	3	20	
Pentachlorophenol	81.8	10	ug/L	100.0		82	14-176	3	20	
Phenanthrene	92.4	10	ug/L	100.0		92	54-120	4	20	
Phenol	40.7	10	ug/L	100.0		41	10-112	5	20	
Pyrene	92.2	10	ug/L	100.0		92	52-115	3	20	
Surrogate: 2,4,6-Tribromophenol	*89.1*		*ug/L*	*100.0*		*89*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*47.9*		*ug/L*	*50.00*		*96*	*49-118*			
Surrogate: 2-Fluorophenol	*55.8*		*ug/L*	*100.0*		*56*	*22-84*			
Surrogate: Nitrobenzene-d5	*41.2*		*ug/L*	*50.00*		*82*	*43-123*			
Surrogate: Phenol-d5	*35.6*		*ug/L*	*100.0*		*36*	*10-63*			
Surrogate: Terphenyl-d14	*52.7*		*ug/L*	*50.00*		*105*	*49-151*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0152 - MADEP VPH (W)										
Blank (P5C0152-BLK1)				Prepared & Analyzed: 03/09/15						
C5-C8 Aliphatics	BRL	50	ug/L							
C9-C12 Aliphatics	BRL	50	ug/L							
C9-C10 Aromatics	BRL	50	ug/L							
Surrogate: 2,5-Dibromotoluene (PID)	*82.8*		*ug/L*	*100.0*		*83*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*89.1*		*ug/L*	*100.0*		*89*	*70-130*			
LCS (P5C0152-BS1)				Prepared & Analyzed: 03/09/15						
C5-C8 Aliphatics	336	50	ug/L	300.0		112	70-130			
C9-C10 Aromatics	94.7	50	ug/L	100.0		95	70-130			
C9-C12 Aliphatic	341	50	ug/L	300.0		114	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*91.6*		*ug/L*	*100.0*		*92*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*98.0*		*ug/L*	*100.0*		*98*	*70-130*			
LCS Dup (P5C0152-BSD1)				Prepared & Analyzed: 03/09/15						
C5-C8 Aliphatics	324	50	ug/L	300.0		108	70-130	3	50	
C9-C10 Aromatics	92.5	50	ug/L	100.0		93	70-130	2	50	
C9-C12 Aliphatic	341	50	ug/L	300.0		114	70-130	0.004	50	
Surrogate: 2,5-Dibromotoluene (PID)	*89.1*		*ug/L*	*100.0*		*89*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*95.4*		*ug/L*	*100.0*		*95*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0062 - MADEP EPH (W)										
Blank (P5C0062-BLK1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	BRL	100	ug/L							
C19-C36 Aliphatics	BRL	100	ug/L							
C11-C22 Aromatics	BRL	100	ug/L							
Surrogate: 1-Chlorooctadecane	*16.9*		*ug/L*	*20.00*		*85*	*40-140*			
Surrogate: o-Terphenyl	*18.5*		*ug/L*	*20.00*		*92*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*35.4*		*ug/L*	*40.00*		*88*	*40-140*			
Surrogate: 2-Bromonaphthalene	*32.8*		*ug/L*	*40.00*		*82*	*40-140*			
LCS (P5C0062-BS1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	379	100	ug/L	600.0		63	40-140			
C19-C36 Aliphatics	771	100	ug/L	800.0		96	40-140			
C11-C22 Aromatics	1350	100	ug/L	1700		79	40-140			
Surrogate: 1-Chlorooctadecane	*18.1*		*ug/L*	*20.00*		*91*	*40-140*			
Surrogate: o-Terphenyl	*18.4*		*ug/L*	*20.00*		*92*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*39.1*		*ug/L*	*40.00*		*98*	*40-140*			
Surrogate: 2-Bromonaphthalene	*37.8*		*ug/L*	*40.00*		*94*	*40-140*			
LCS Dup (P5C0062-BSD1)				Prepared: 03/04/15 Analyzed: 03/06/15						
C9-C18 Aliphatics	249	100	ug/L	600.0		41	40-140	41	50	
C19-C36 Aliphatics	516	100	ug/L	800.0		65	40-140	40	50	
C11-C22 Aromatics	1050	100	ug/L	1700		62	40-140	25	50	
Surrogate: 1-Chlorooctadecane	*13.4*		*ug/L*	*20.00*		*67*	*40-140*			
Surrogate: o-Terphenyl	*14.5*		*ug/L*	*20.00*		*72*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*40.3*		*ug/L*	*40.00*		*101*	*40-140*			
Surrogate: 2-Bromonaphthalene	*33.9*		*ug/L*	*40.00*		*85*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030051
Time Submitted: 3/3/2015 3:50:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0054 - 3010A										
Blank (P5C0054-BLK1)				Prepared & Analyzed: 03/04/15						
Chromium	BRL	0.0050	mg/L							
Lead	BRL	0.0050	mg/L							
LCS (P5C0054-BS1)				Prepared & Analyzed: 03/04/15						
Chromium	0.245	0.0050	mg/L	0.2500		98	80-120			
Lead	0.242	0.0050	mg/L	0.2500		97	80-120			

Sample Extraction Data

Prep Method: MADEP EPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5030051-01	P5C0062	1000 mL	2 mL	03/04/15 11:00
5030051-02	P5C0062	1000 mL	2 mL	03/04/15 11:00

Prep Method: 625

Lab Number	Batch	Initial	Final	Date/Time
5030051-01	P5C0144	1000 mL	1 mL	03/09/15 9:50
5030051-01	P5C0144	1000 mL	1 mL	03/09/15 9:50
5030051-02	P5C0144	1000 mL	1 mL	03/09/15 9:50

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
5030051-01	P5C0054	50 mL	50 mL	03/04/15 9:15
5030051-02	P5C0054	50 mL	50 mL	03/04/15 9:15
5030051-02	P5C0054	50 mL	50 mL	03/04/15 9:15

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
5030051-01	P5C0120	10 mL	10 mL	03/05/15 9:58
5030051-01	P5C0120	10 mL	10 mL	03/05/15 9:58
5030051-02	P5C0120	10 mL	10 mL	03/05/15 9:58

Prep Method: MADEP VPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5030051-01	P5C0152	44 mL	44 mL	03/09/15 13:14
5030051-02	P5C0152	44 mL	44 mL	03/09/15 13:14

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: ______

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IRT-10 Observed: 11.1 °C / Corr: 10.2 °C

Client Company Name: AECOM
Report To/Contact Name: James McDorman
Reporting Address: 6000 Fairview Rd Suite 200 Charlotte, NC 28210
Phone: 704.522.0330 Fax (Yes) (No): ______
Email Address: jim.mcdorman@AECOM.Com
EDD Type: PDF___ Excel___ Other___
Site Location Name: Rental Car Facilites
Site Location Physical Address: ______

Project Name: Charlotte Airport Rental Car Sites
Short Hold Analysis: (Yes) (No) [No circled] UST Project: (Yes) (NO) [Yes circled]
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Michelle Friedman
Address: 5925 Carnegie Blvd, Suite 300 Charlotte, NC 28209
Purchase Order No./Billing Reference 60340238
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☑ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC___ DoD___ FL___ NC___ SC___ OTHER___ N/A___
Water Chlorinated: YES___ NO X
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED: VOCs 6200B MADEP VPH	SVOC+10 TICs 625	EPH MADEP	Lead Pb		REMARKS	PRISM LAB ID NO.
National TMW-1	3/3/15	1045	Water	VOA/A/P	6/4/1	—	HCL/none HCL/HNO3	X	X	X	X	X		Medium/High Boiling Point Fuels	01
National TMW-4	3/3/15	0855	⊥	⊥	⊥	—	⊥	X	X	X	X	X			02

Note: analysis column headers are handwritten diagonally: VOCs 6200B; MADEP VPH; SVOC+10 TICs 625; EPH MADEP; Lead Pb.

Sampler's Signature ______ Sampled By (Print Name) ______ Affiliation ______

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]			
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 3/3/15	1550

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☑ Hand-delivered ☐ Prism Field Service ☐ Other ______
COC Group No. 5030051

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES: ☐ NC ☐ SC ☐ | UST: ☐ NC ☐ SC ☐ | GROUNDWATER: ☐ NC ☐ SC ☐ | DRINKING WATER: ☐ NC ☐ SC ☐ | SOLID WASTE: ☐ NC ☐ SC ☐ | RCRA: ☐ NC ☐ SC ☐ | CERCLA ☐ NC ☐ SC ☐ | LANDFILL ☐ NC ☐ SC ☐ | OTHER: ☐ NC ☐ SC ☐

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

03/13/2015

AECOM (Charlotte)
James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Lab Submittal Date: 03/04/2015
Prism Work Order: 5030070

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

Samples were received on wet ice at a temperature of 14.2 degrees C.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones
President/Project Manager

Reviewed By Robbi A. Jones
President/Project Manager

Data Qualifiers Key Reference:

D	RPD value outside of the control limits.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
L	Parameter reported with possible low bias. LCS recovery below the QC limit.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

Sample Receipt Summary

03/13/2015

Prism Work Order: 5030070

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
National MW-1	5030070-01	Water	03/04/15	03/04/15

Samples were received at 14.2 degrees C. See case narrative for further information.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Summary of Detections

03/13/2015

Prism Work Order: 5030070

Prism ID	Client ID	Parameter	Method	Result		Units
5030070-01	National MW-1	Bis(2-Ethylhexyl)phthalate	625	37		ug/L
5030070-01	National MW-1	Unknown (1)	625	15		ug/L
5030070-01	National MW-1	Unknown (2)	625	15		ug/L
5030070-01	National MW-1	Unknown (3)	625	23		ug/L
5030070-01	National MW-1	1,2,4-Trimethylbenzene	SM6200 B	1.1		ug/L
5030070-01	National MW-1	1,3,5-Trimethylbenzene	SM6200 B	1.3		ug/L
5030070-01	National MW-1	Benzene	SM6200 B	15		ug/L
5030070-01	National MW-1	Ethylbenzene	SM6200 B	0.70		ug/L
5030070-01	National MW-1	Isopropyl Ether	SM6200 B	2.9		ug/L
5030070-01	National MW-1	Isopropylbenzene (Cumene)	SM6200 B	1.0		ug/L
5030070-01	National MW-1	m,p-Xylenes	SM6200 B	3.9		ug/L
5030070-01	National MW-1	Methyl-tert-Butyl Ether	SM6200 B	29		ug/L
5030070-01	National MW-1	Naphthalene	SM6200 B	1.2		ug/L
5030070-01	National MW-1	o-Xylene	SM6200 B	4.5		ug/L
5030070-01	National MW-1	sec-Butylbenzene	SM6200 B	0.51		ug/L
5030070-01	National MW-1	tert-Amyl Alcohol	SM6200 B	35		ug/L
5030070-01	National MW-1	tert-Amyl Methyl Ether	SM6200 B	1.5	J	ug/L
5030070-01	National MW-1	tert-Butyl Alcohol	SM6200 B	7.1	J	ug/L
5030070-01	National MW-1	Toluene	SM6200 B	6.3		ug/L
5030070-01	National MW-1	Xylenes, total	SM6200 B	8.4		ug/L
5030070-01	National MW-1	C5-C8 Aliphatics	MADEP VPH	140		ug/L
5030070-01	National MW-1	C9-C12 Aliphatics	MADEP VPH	77		ug/L
5030070-01	National MW-1	C9-C10 Aromatics	MADEP VPH	41	J	ug/L

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National MW-1
Prism Sample ID: 5030070-01
Prism Work Order: 5030070
Time Collected: 03/04/15 08:10
Time Submitted: 03/04/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	25	1	MADEP EPH	3/11/15 17:33	KC	P5C0172
C19-C36 Aliphatics	BRL	ug/L	100	11	1	MADEP EPH	3/11/15 17:33	KC	P5C0172
C11-C22 Aromatics	BRL	ug/L	100	20	1	MADEP EPH	3/11/15 17:33	KC	P5C0172

Surrogate	Recovery	Control Limits
1-Chlorooctadecane	*64 %*	*40-140*
o-Terphenyl	*83 %*	*40-140*
2-Fluorobiphenyl	*81 %*	*40-140*
2-Bromonaphthalene	*68 %*	*40-140*

Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
1,2-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/11/15 20:46	KC	P5C0144
1,3-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/11/15 20:46	KC	P5C0144
1,4-Dichlorobenzene	BRL	ug/L	10	1.7	1	625	3/11/15 20:46	KC	P5C0144
1-Methylnaphthalene	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
2,4,6-Trichlorophenol	BRL	ug/L	10	1.5	1	625	3/11/15 20:46	KC	P5C0144
2,4-Dichlorophenol	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
2,4-Dimethylphenol	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
2,4-Dinitrophenol	BRL	ug/L	10	0.54	1	625	3/11/15 20:46	KC	P5C0144
2,4-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/11/15 20:46	KC	P5C0144
2,6-Dinitrotoluene	BRL	ug/L	10	1.4	1	625	3/11/15 20:46	KC	P5C0144
2-Chloronaphthalene	BRL	ug/L	10	1.8	1	625	3/11/15 20:46	KC	P5C0144
2-Chlorophenol	BRL	ug/L	10	1.4	1	625	3/11/15 20:46	KC	P5C0144
2-Methylnaphthalene	BRL	ug/L	10	1.7	1	625	3/11/15 20:46	KC	P5C0144
2-Nitrophenol	BRL	ug/L	10	1.5	1	625	3/11/15 20:46	KC	P5C0144
3,3'-Dichlorobenzidine	BRL	ug/L	10	1.5	1	625	3/11/15 20:46	KC	P5C0144
3/4-Methylphenol	BRL	ug/L	10	1.2	1	625	3/11/15 20:46	KC	P5C0144
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	1.2	1	625	3/11/15 20:46	KC	P5C0144
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.3	1	625	3/11/15 20:46	KC	P5C0144
4-Chloro-3-methylphenol	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
4-Chloroaniline	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
4-Chlorophenyl phenyl ether	BRL	ug/L	10	1.2	1	625	3/11/15 20:46	KC	P5C0144
4-Nitrophenol	BRL	ug/L	50	1.0	1	625	3/11/15 20:46	KC	P5C0144
Acenaphthene	BRL	ug/L	10	1.7	1	625	3/11/15 20:46	KC	P5C0144
Acenaphthylene	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
Anthracene	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
Benzidine	BRL	ug/L	100	2.9	1	625	3/11/15 20:46	KC	P5C0144
Benzo(a)anthracene	BRL	ug/L	10	1.5	1	625	3/11/15 20:46	KC	P5C0144
Benzo(a)pyrene	BRL	ug/L	10	1.7	1	625	3/11/15 20:46	KC	P5C0144
Benzo(b)fluoranthene	BRL	ug/L	10	1.8	1	625	3/11/15 20:46	KC	P5C0144
Benzo(g,h,i)perylene	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
Benzo(k)fluoranthene	BRL	ug/L	10	1.7	1	625	3/11/15 20:46	KC	P5C0144
Benzoic Acid	BRL	ug/L	100	1.0	1	625	3/11/15 20:46	KC	P5C0144

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National MW-1
Prism Sample ID: 5030070-01
Prism Work Order: 5030070
Time Collected: 03/04/15 08:10
Time Submitted: 03/04/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzyl alcohol	BRL	ug/L	10	1.2	1	625	3/11/15 20:46	KC	P5C0144
bis(2-Chloroethoxy)methane	BRL	ug/L	10	1.3	1	625	3/11/15 20:46	KC	P5C0144
Bis(2-Chloroethyl)ether	BRL	ug/L	10	1.7	1	625	3/11/15 20:46	KC	P5C0144
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	1.3	1	625	3/11/15 20:46	KC	P5C0144
Bis(2-Ethylhexyl)phthalate	**37**	**ug/L**	**10**	**1.6**	**1**	**625**	**3/11/15 20:46**	**KC**	**P5C0144**
Butyl benzyl phthalate	BRL	ug/L	10	1.4	1	625	3/11/15 20:46	KC	P5C0144
Chrysene	BRL	ug/L	10	1.4	1	625	3/11/15 20:46	KC	P5C0144
Dibenzo(a,h)anthracene	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
Dibenzofuran	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
Diethyl phthalate	BRL	ug/L	10	0.98	1	625	3/11/15 20:46	KC	P5C0144
Dimethyl phthalate	BRL	ug/L	10	1.4	1	625	3/11/15 20:46	KC	P5C0144
Di-n-butyl phthalate	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
Di-n-octyl phthalate	BRL	ug/L	10	1.8	1	625	3/11/15 20:46	KC	P5C0144
Fluoranthene	BRL	ug/L	10	1.4	1	625	3/11/15 20:46	KC	P5C0144
Fluorene	BRL	ug/L	10	1.5	1	625	3/11/15 20:46	KC	P5C0144
Hexachlorobenzene	BRL	ug/L	10	1.2	1	625	3/11/15 20:46	KC	P5C0144
Hexachlorobutadiene	BRL	ug/L	10	2.0	1	625	3/11/15 20:46	KC	P5C0144
Hexachlorocyclopentadiene	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
Hexachloroethane	BRL	ug/L	10	2.0	1	625	3/11/15 20:46	KC	P5C0144
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.2	1	625	3/11/15 20:46	KC	P5C0144
Isophorone	BRL	ug/L	10	1.5	1	625	3/11/15 20:46	KC	P5C0144
Naphthalene	BRL	ug/L	10	1.6	1	625	3/11/15 20:46	KC	P5C0144
Nitrobenzene	BRL	ug/L	10	1.4	1	625	3/11/15 20:46	KC	P5C0144
N-Nitrosodimethylamine	BRL	ug/L	10	0.96	1	625	3/11/15 20:46	KC	P5C0144
N-Nitroso-di-n-propylamine	BRL	ug/L	10	1.2	1	625	3/11/15 20:46	KC	P5C0144
N-Nitrosodiphenylamine	BRL	ug/L	10	1.4	1	625	3/11/15 20:46	KC	P5C0144
Pentachlorophenol	BRL	ug/L	10	1.5	1	625	3/11/15 20:46	KC	P5C0144
Phenanthrene	BRL	ug/L	10	1.4	1	625	3/11/15 20:46	KC	P5C0144
Phenol	BRL	ug/L	10	0.90	1	625	3/11/15 20:46	KC	P5C0144
Pyrene	BRL	ug/L	10	1.5	1	625	3/11/15 20:46	KC	P5C0144
TIC: Unknown (1)	**15**	**ug/L**			**1**	**625**	**3/11/15 20:46**	**KC**	**P5C0144**
TIC: Unknown (2)	**15**	**ug/L**			**1**	**625**	**3/11/15 20:46**	**KC**	**P5C0144**
TIC: Unknown (3)	**23**	**ug/L**			**1**	**625**	**3/11/15 20:46**	**KC**	**P5C0144**

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	*57 %*	*31-144*
2-Fluorobiphenyl	*92 %*	*49-118*
2-Fluorophenol	*41 %*	*22-84*
Nitrobenzene-d5	*93 %*	*43-123*
Phenol-d5	*30 %*	*10-63*
Terphenyl-d14	*98 %*	*49-151*

Total Metals

Lead	BRL	mg/L	0.0050	0.00057	1	*6010C	3/9/15 20:09	BGM	P5C0138

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National MW-1
Prism Sample ID: 5030070-01
Prism Work Order: 5030070
Time Collected: 03/04/15 08:10
Time Submitted: 03/04/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,2,3-Trichlorobenzene	BRL	ug/L	0.50	0.40	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,2,3-Trichloropropane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,2,4-Trichlorobenzene	BRL	ug/L	0.50	0.13	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,2,4-Trimethylbenzene	**1.1**	**ug/L**	**0.50**	**0.054**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,3,5-Trimethylbenzene	**1.3**	**ug/L**	**0.50**	**0.076**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Acetone	BRL	ug/L	10	0.31	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Benzene	**15**	**ug/L**	**0.50**	**0.048**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
Bromobenzene	BRL	ug/L	0.50	0.057	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Bromochloromethane	BRL	ug/L	0.50	0.14	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Bromoform	BRL	ug/L	0.50	0.040	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Bromomethane	BRL	ug/L	1.0	0.18	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Chlorobenzene	BRL	ug/L	0.50	0.062	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Chloroethane	BRL	ug/L	0.50	0.22	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Chloroform	BRL	ug/L	0.50	0.076	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Chloromethane	BRL	ug/L	0.50	0.079	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Dibromomethane	BRL	ug/L	0.50	0.065	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Ethanol	BRL	ug/L	200	27	1	SM6200 B	3/5/15 16:08	VHL	P5C0120

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Sample Matrix: Water

Client Sample ID: National MW-1
Prism Sample ID: 5030070-01
Prism Work Order: 5030070
Time Collected: 03/04/15 08:10
Time Submitted: 03/04/15 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Ethylbenzene	**0.70**	**ug/L**	**0.50**	**0.061**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Isopropyl Ether	**2.9**	**ug/L**	**0.50**	**0.050**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
Isopropylbenzene (Cumene)	**1.0**	**ug/L**	**0.50**	**0.054**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
m,p-Xylenes	**3.9**	**ug/L**	**1.0**	**0.12**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	1.0	0.065	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Methyl Isobutyl Ketone	BRL	ug/L	1.0	0.078	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Methylene Chloride	BRL	ug/L	2.0	0.083	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Methyl-tert-Butyl Ether	**29**	**ug/L**	**1.0**	**0.042**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
Naphthalene	**1.2**	**ug/L**	**1.0**	**0.19**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
n-Butylbenzene	BRL	ug/L	0.50	0.076	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
o-Xylene	**4.5**	**ug/L**	**0.50**	**0.044**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
sec-Butylbenzene	**0.51**	**ug/L**	**0.50**	**0.076**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
Styrene	BRL	ug/L	0.50	0.047	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
tert-Amyl Alcohol	**35**	**ug/L**	**10**	**0.72**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
tert-Amyl Methyl Ether	**1.5 J**	**ug/L**	**10**	**0.10**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
tert-Butyl Alcohol	**7.1 J**	**ug/L**	**10**	**0.64**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
tert-Butyl Ethyl Ether	BRL	ug/L	10	0.059	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
tert-Butyl Formate	BRL	ug/L	10	0.25	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Toluene	**6.3**	**ug/L**	**0.50**	**0.044**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.070	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.12	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Trichloroethylene	BRL	ug/L	0.50	0.078	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Vinyl acetate	BRL	ug/L	5.0	0.060	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Vinyl chloride	BRL	ug/L	0.50	0.097	1	SM6200 B	3/5/15 16:08	VHL	P5C0120
Xylenes, total	**8.4**	**ug/L**	**1.5**	**0.15**	**1**	**SM6200 B**	**3/5/15 16:08**	**VHL**	**P5C0120**

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*111 %*	*70-130*
Dibromofluoromethane	*106 %*	*70-130*
Toluene-d8	*104 %*	*70-130*

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	**140**	**ug/L**	**50**	**1.2**	**1**	**MADEP VPH**	**3/9/15 19:13**	**ANG**	**P5C0152**
C9-C12 Aliphatics	**77**	**ug/L**	**50**	**1.3**	**1**	**MADEP VPH**	**3/9/15 19:13**	**ANG**	**P5C0152**
C9-C10 Aromatics	**41 J**	**ug/L**	**50**	**1.4**	**1**	**MADEP VPH**	**3/9/15 19:13**	**ANG**	**P5C0152**

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	*91 %*	*70-130*
2,5-Dibromotoluene (FID)	*97 %*	*70-130*

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
Blank (P5C0120-BLK1)				Prepared & Analyzed: 03/05/15						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	0.50	ug/L							
1,2,3-Trichloropropane	BRL	0.50	ug/L							
1,2,4-Trichlorobenzene	BRL	0.50	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	10	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	0.50	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethanol	BRL	200	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
Blank (P5C0120-BLK1)				Prepared & Analyzed: 03/05/15						
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	1.0	ug/L							
Methylene Chloride	BRL	2.0	ug/L							
Methyl-tert-Butyl Ether	BRL	1.0	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	0.50	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Amyl Alcohol	BRL	10	ug/L							
tert-Amyl Methyl Ether	BRL	10	ug/L							
tert-Butyl Alcohol	BRL	10	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
tert-Butyl Ethyl Ether	BRL	10	ug/L							
tert-Butyl Formate	BRL	10	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	5.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Xylenes, total	BRL	1.5	ug/L							
Surrogate: 4-Bromofluorobenzene	*27.4*		*ug/L*	*25.00*		*109*	*70-130*			
Surrogate: Dibromofluoromethane	*26.6*		*ug/L*	*25.00*		*106*	*70-130*			
Surrogate: Toluene-d8	*26.7*		*ug/L*	*25.00*		*107*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
LCS (P5C0120-BS1)				Prepared & Analyzed: 03/05/15						
1,1,1,2-Tetrachloroethane	18.8	0.50	ug/L	20.00		94	70-130			
1,1,1-Trichloroethane	19.9	0.50	ug/L	20.00		99	70-130			
1,1,2,2-Tetrachloroethane	19.0	0.50	ug/L	20.00		95	70-130			
1,1,2-Trichloroethane	17.9	0.50	ug/L	20.00		90	70-130			
1,1-Dichloroethane	19.9	0.50	ug/L	20.00		100	70-130			
1,1-Dichloroethylene	20.6	0.50	ug/L	20.00		103	70-130			
1,1-Dichloropropylene	20.5	0.50	ug/L	20.00		102	70-130			
1,2,3-Trichlorobenzene	19.9	0.50	ug/L	20.00		100	70-130			
1,2,3-Trichloropropane	18.2	0.50	ug/L	20.00		91	70-130			
1,2,4-Trichlorobenzene	20.7	0.50	ug/L	20.00		104	70-130			
1,2,4-Trimethylbenzene	21.3	0.50	ug/L	20.00		106	70-130			
1,2-Dibromo-3-chloropropane	18.1	2.0	ug/L	20.00		91	70-130			
1,2-Dibromoethane	19.5	0.50	ug/L	20.00		98	70-130			
1,2-Dichlorobenzene	20.9	0.50	ug/L	20.00		105	70-130			
1,2-Dichloroethane	17.6	0.50	ug/L	20.00		88	70-130			
1,2-Dichloropropane	19.6	0.50	ug/L	20.00		98	70-130			
1,3,5-Trimethylbenzene	21.6	0.50	ug/L	20.00		108	70-130			
1,3-Dichlorobenzene	20.2	0.50	ug/L	20.00		101	70-130			
1,3-Dichloropropane	18.8	0.50	ug/L	20.00		94	70-130			
1,4-Dichlorobenzene	19.8	0.50	ug/L	20.00		99	70-130			
2,2-Dichloropropane	19.5	2.0	ug/L	20.00		98	70-130			
2-Chlorotoluene	20.3	0.50	ug/L	20.00		101	70-130			
4-Chlorotoluene	20.3	0.50	ug/L	20.00		102	70-130			
4-Isopropyltoluene	21.7	0.50	ug/L	20.00		108	70-130			
Acetone	41.1	10	ug/L	40.00		103	40-160			
Benzene	20.8	0.50	ug/L	20.00		104	70-130			
Bromobenzene	19.3	0.50	ug/L	20.00		97	70-130			
Bromochloromethane	20.3	0.50	ug/L	20.00		101	70-130			
Bromodichloromethane	17.2	0.50	ug/L	20.00		86	70-130			
Bromoform	18.2	0.50	ug/L	20.00		91	70-130			
Bromomethane	18.8	1.0	ug/L	20.00		94	60-140			
Carbon Tetrachloride	19.6	0.50	ug/L	20.00		98	70-130			
Chlorobenzene	20.2	0.50	ug/L	20.00		101	70-130			
Chloroethane	20.6	0.50	ug/L	20.00		103	60-140			
Chloroform	17.7	0.50	ug/L	20.00		89	70-130			
Chloromethane	20.9	0.50	ug/L	20.00		104	60-140			
cis-1,2-Dichloroethylene	20.1	0.50	ug/L	20.00		101	70-130			
cis-1,3-Dichloropropylene	19.5	0.50	ug/L	20.00		97	70-130			
Dibromochloromethane	18.0	0.50	ug/L	20.00		90	70-130			
Dibromomethane	17.6	0.50	ug/L	20.00		88	70-130			
Dichlorodifluoromethane	22.5	1.0	ug/L	20.00		113	60-140			
Ethanol	473	200	ug/L	500.0		95	60-140			
Ethylbenzene	20.0	0.50	ug/L	20.00		100	70-130			
Hexachlorobutadiene	20.5	2.0	ug/L	20.00		102	70-130			
Isopropyl Ether	17.3	0.50	ug/L	20.00		86	70-130			
Isopropylbenzene (Cumene)	22.4	0.50	ug/L	20.00		112	70-130			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
LCS (P5C0120-BS1)				Prepared & Analyzed: 03/05/15						
m,p-Xylenes	41.1	1.0	ug/L	40.00		103	70-130			
Methyl Butyl Ketone (2-Hexanone)	19.3	1.0	ug/L	20.00		96	60-140			
Methyl Ethyl Ketone (2-Butanone)	18.5	5.0	ug/L	20.00		93	60-140			
Methyl Isobutyl Ketone	17.9	1.0	ug/L	20.00		89	60-140			
Methylene Chloride	21.4	2.0	ug/L	20.00		107	70-130			
Methyl-tert-Butyl Ether	19.2	1.0	ug/L	20.00		96	70-130			
Naphthalene	19.2	1.0	ug/L	20.00		96	70-130			
n-Butylbenzene	21.3	0.50	ug/L	20.00		106	70-130			
n-Propylbenzene	21.4	0.50	ug/L	20.00		107	70-130			
o-Xylene	20.8	0.50	ug/L	20.00		104	70-130			
sec-Butylbenzene	20.5	0.50	ug/L	20.00		103	70-130			
Styrene	21.0	0.50	ug/L	20.00		105	70-130			
tert-Amyl Alcohol	16.8	10	ug/L	20.00		84	70-130			
tert-Amyl Methyl Ether	38.4	10	ug/L	40.00		96	70-130			
tert-Butyl Alcohol	31.5	10	ug/L	40.00		79	70-130			
tert-Butylbenzene	21.4	0.50	ug/L	20.00		107	70-130			
tert-Butyl Ethyl Ether	39.3	10	ug/L	40.00		98	70-130			
tert-Butyl Formate	31.2	10	ug/L	40.00		78	70-130			
Tetrachloroethylene	19.8	0.50	ug/L	20.00		99	70-130			
Toluene	19.5	0.50	ug/L	20.00		98	70-130			
trans-1,2-Dichloroethylene	20.7	0.50	ug/L	20.00		103	70-130			
trans-1,3-Dichloropropylene	18.4	0.50	ug/L	20.00		92	70-130			
Trichloroethylene	20.4	0.50	ug/L	20.00		102	70-130			
Trichlorofluoromethane	20.5	0.50	ug/L	20.00		102	60-140			
Vinyl acetate	20.8	5.0	ug/L	20.00		104	60-140			
Vinyl chloride	22.2	0.50	ug/L	20.00		111	60-140			
Xylenes, total	62.0	1.5	ug/L	60.00		103	70-130			
Surrogate: 4-Bromofluorobenzene	*26.2*		*ug/L*	*25.00*		*105*	*70-130*			
Surrogate: Dibromofluoromethane	*25.1*		*ug/L*	*25.00*		*100*	*70-130*			
Surrogate: Toluene-d8	*26.5*		*ug/L*	*25.00*		*106*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
LCS Dup (P5C0120-BSD1)				Prepared & Analyzed: 03/05/15						
1,1,1,2-Tetrachloroethane	19.0	0.50	ug/L	20.00		95	70-130	1	20	
1,1,1-Trichloroethane	20.0	0.50	ug/L	20.00		100	70-130	1	20	
1,1,2,2-Tetrachloroethane	18.0	0.50	ug/L	20.00		90	70-130	6	20	
1,1,2-Trichloroethane	18.5	0.50	ug/L	20.00		92	70-130	3	20	
1,1-Dichloroethane	19.9	0.50	ug/L	20.00		99	70-130	0.3	20	
1,1-Dichloroethylene	21.2	0.50	ug/L	20.00		106	70-130	3	20	
1,1-Dichloropropylene	20.9	0.50	ug/L	20.00		104	70-130	2	20	
1,2,3-Trichlorobenzene	19.8	0.50	ug/L	20.00		99	70-130	0.6	20	
1,2,3-Trichloropropane	18.4	0.50	ug/L	20.00		92	70-130	1	20	
1,2,4-Trichlorobenzene	19.9	0.50	ug/L	20.00		100	70-130	4	20	
1,2,4-Trimethylbenzene	20.8	0.50	ug/L	20.00		104	70-130	2	20	
1,2-Dibromo-3-chloropropane	19.2	2.0	ug/L	20.00		96	70-130	6	20	
1,2-Dibromoethane	19.5	0.50	ug/L	20.00		97	70-130	0.3	20	
1,2-Dichlorobenzene	19.3	0.50	ug/L	20.00		97	70-130	8	20	
1,2-Dichloroethane	18.6	0.50	ug/L	20.00		93	70-130	6	20	
1,2-Dichloropropane	19.1	0.50	ug/L	20.00		95	70-130	3	20	
1,3,5-Trimethylbenzene	21.3	0.50	ug/L	20.00		107	70-130	2	20	
1,3-Dichlorobenzene	19.5	0.50	ug/L	20.00		98	70-130	3	20	
1,3-Dichloropropane	18.2	0.50	ug/L	20.00		91	70-130	3	20	
1,4-Dichlorobenzene	19.8	0.50	ug/L	20.00		99	70-130	0.2	20	
2,2-Dichloropropane	20.0	2.0	ug/L	20.00		100	70-130	2	20	
2-Chlorotoluene	19.7	0.50	ug/L	20.00		99	70-130	3	20	
4-Chlorotoluene	19.6	0.50	ug/L	20.00		98	70-130	4	20	
4-Isopropyltoluene	20.6	0.50	ug/L	20.00		103	70-130	5	20	
Acetone	39.3	10	ug/L	40.00		98	40-160	4	20	
Benzene	20.7	0.50	ug/L	20.00		104	70-130	0.5	20	
Bromobenzene	18.7	0.50	ug/L	20.00		93	70-130	3	20	
Bromochloromethane	20.3	0.50	ug/L	20.00		102	70-130	0.1	20	
Bromodichloromethane	17.9	0.50	ug/L	20.00		89	70-130	4	20	
Bromoform	18.2	0.50	ug/L	20.00		91	70-130	0.5	20	
Bromomethane	19.6	1.0	ug/L	20.00		98	60-140	4	20	
Carbon Tetrachloride	18.8	0.50	ug/L	20.00		94	70-130	4	20	
Chlorobenzene	19.6	0.50	ug/L	20.00		98	70-130	3	20	
Chloroethane	20.0	0.50	ug/L	20.00		100	60-140	3	20	
Chloroform	17.8	0.50	ug/L	20.00		89	70-130	0.3	20	
Chloromethane	21.7	0.50	ug/L	20.00		108	60-140	4	20	
cis-1,2-Dichloroethylene	20.2	0.50	ug/L	20.00		101	70-130	0.6	20	
cis-1,3-Dichloropropylene	20.2	0.50	ug/L	20.00		101	70-130	4	20	
Dibromochloromethane	18.2	0.50	ug/L	20.00		91	70-130	0.8	20	
Dibromomethane	18.5	0.50	ug/L	20.00		92	70-130	5	20	
Dichlorodifluoromethane	22.6	1.0	ug/L	20.00		113	60-140	0.4	20	
Ethanol	551	200	ug/L	500.0		110	60-140	15	20	
Ethylbenzene	20.2	0.50	ug/L	20.00		101	70-130	0.7	20	
Hexachlorobutadiene	19.4	2.0	ug/L	20.00		97	70-130	5	20	
Isopropyl Ether	17.5	0.50	ug/L	20.00		88	70-130	1	20	
Isopropylbenzene (Cumene)	21.1	0.50	ug/L	20.00		106	70-130	6	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0120 - SM6200 B										
LCS Dup (P5C0120-BSD1)				Prepared & Analyzed: 03/05/15						
m,p-Xylenes	41.3	1.0	ug/L	40.00		103	70-130	0.5	20	
Methyl Butyl Ketone (2-Hexanone)	19.2	1.0	ug/L	20.00		96	60-140	0.6	20	
Methyl Ethyl Ketone (2-Butanone)	18.9	5.0	ug/L	20.00		94	60-140	2	20	
Methyl Isobutyl Ketone	18.7	1.0	ug/L	20.00		93	60-140	4	20	
Methylene Chloride	22.0	2.0	ug/L	20.00		110	70-130	3	20	
Methyl-tert-Butyl Ether	19.9	1.0	ug/L	20.00		100	70-130	3	20	
Naphthalene	18.9	1.0	ug/L	20.00		95	70-130	2	20	
n-Butylbenzene	20.4	0.50	ug/L	20.00		102	70-130	4	20	
n-Propylbenzene	20.7	0.50	ug/L	20.00		104	70-130	3	20	
o-Xylene	20.4	0.50	ug/L	20.00		102	70-130	2	20	
sec-Butylbenzene	19.5	0.50	ug/L	20.00		98	70-130	5	20	
Styrene	20.4	0.50	ug/L	20.00		102	70-130	3	20	
tert-Amyl Alcohol	18.1	10	ug/L	20.00		90	70-130	8	20	
tert-Amyl Methyl Ether	39.7	10	ug/L	40.00		99	70-130	3	20	
tert-Butyl Alcohol	31.7	10	ug/L	40.00		79	70-130	0.6	20	
tert-Butylbenzene	20.4	0.50	ug/L	20.00		102	70-130	5	20	
tert-Butyl Ethyl Ether	41.2	10	ug/L	40.00		103	70-130	5	20	
tert-Butyl Formate	34.2	10	ug/L	40.00		85	70-130	9	20	
Tetrachloroethylene	19.5	0.50	ug/L	20.00		97	70-130	2	20	
Toluene	20.1	0.50	ug/L	20.00		100	70-130	3	20	
trans-1,2-Dichloroethylene	21.2	0.50	ug/L	20.00		106	70-130	2	20	
trans-1,3-Dichloropropylene	19.1	0.50	ug/L	20.00		96	70-130	4	20	
Trichloroethylene	19.7	0.50	ug/L	20.00		99	70-130	3	20	
Trichlorofluoromethane	19.9	0.50	ug/L	20.00		99	60-140	3	20	
Vinyl acetate	21.7	5.0	ug/L	20.00		109	60-140	4	20	
Vinyl chloride	22.1	0.50	ug/L	20.00		110	60-140	0.4	20	
Xylenes, total	61.7	1.5	ug/L	60.00		103	70-130	0.4	20	
Surrogate: 4-Bromofluorobenzene	*25.9*		*ug/L*	*25.00*		*104*	*70-130*			
Surrogate: Dibromofluoromethane	*25.3*		*ug/L*	*25.00*		*101*	*70-130*			
Surrogate: Toluene-d8	*26.3*		*ug/L*	*25.00*		*105*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
Blank (P5C0144-BLK1)				Prepared: 03/09/15 Analyzed: 03/11/15						
1,2,4-Trichlorobenzene	BRL	10	ug/L							
1,2-Dichlorobenzene	BRL	10	ug/L							
1,3-Dichlorobenzene	BRL	10	ug/L							
1,4-Dichlorobenzene	BRL	10	ug/L							
1-Methylnaphthalene	BRL	10	ug/L							
2,4,6-Trichlorophenol	BRL	10	ug/L							
2,4-Dichlorophenol	BRL	10	ug/L							
2,4-Dimethylphenol	BRL	10	ug/L							
2,4-Dinitrophenol	BRL	10	ug/L							
2,4-Dinitrotoluene	BRL	10	ug/L							
2,6-Dinitrotoluene	BRL	10	ug/L							
2-Chloronaphthalene	BRL	10	ug/L							
2-Chlorophenol	BRL	10	ug/L							
2-Methylnaphthalene	BRL	10	ug/L							
2-Nitrophenol	BRL	10	ug/L							
3,3'-Dichlorobenzidine	BRL	10	ug/L							
3/4-Methylphenol	BRL	10	ug/L							
4,6-Dinitro-2-methylphenol	BRL	10	ug/L							
4-Bromophenyl phenyl ether	BRL	10	ug/L							
4-Chloro-3-methylphenol	BRL	10	ug/L							
4-Chloroaniline	BRL	10	ug/L							
4-Chlorophenyl phenyl ether	BRL	10	ug/L							
4-Nitrophenol	BRL	50	ug/L							
Acenaphthene	BRL	10	ug/L							
Acenaphthylene	BRL	10	ug/L							
Anthracene	BRL	10	ug/L							
Benzidine	BRL	100	ug/L							
Benzo(a)anthracene	BRL	10	ug/L							
Benzo(a)pyrene	BRL	10	ug/L							
Benzo(b)fluoranthene	BRL	10	ug/L							
Benzo(g,h,i)perylene	BRL	10	ug/L							
Benzo(k)fluoranthene	BRL	10	ug/L							
Benzoic Acid	BRL	100	ug/L							
Benzyl alcohol	BRL	10	ug/L							
bis(2-Chloroethoxy)methane	BRL	10	ug/L							
Bis(2-Chloroethyl)ether	BRL	10	ug/L							
Bis(2-chloroisopropyl)ether	BRL	10	ug/L							
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L							
Butyl benzyl phthalate	BRL	10	ug/L							
Chrysene	BRL	10	ug/L							
Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
Blank (P5C0144-BLK1)				Prepared: 03/09/15 Analyzed: 03/11/15						
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitrosodimethylamine	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
Tentatively Identified Compounds	Not Detected		ug/L							
Surrogate: 2,4,6-Tribromophenol	*91.1*		*ug/L*	*100.0*		*91*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*50.1*		*ug/L*	*50.00*		*100*	*49-118*			
Surrogate: 2-Fluorophenol	*63.3*		*ug/L*	*100.0*		*63*	*22-84*			
Surrogate: Nitrobenzene-d5	*55.4*		*ug/L*	*50.00*		*111*	*43-123*			
Surrogate: Phenol-d5	*39.2*		*ug/L*	*100.0*		*39*	*10-63*			
Surrogate: Terphenyl-d14	*57.3*		*ug/L*	*50.00*		*115*	*49-151*			
LCS (P5C0144-BS1)				Prepared: 03/09/15 Analyzed: 03/11/15						
1,2,4-Trichlorobenzene	77.2	10	ug/L	100.0		77	44-142			
1,2-Dichlorobenzene	78.8	10	ug/L	100.0		79	32-129			
1,3-Dichlorobenzene	78.6	10	ug/L	100.0		79	20-124			
1,4-Dichlorobenzene	78.6	10	ug/L	100.0		79	20-124			
1-Methylnaphthalene	77.0	10	ug/L	100.0		77	40-135			
2,4,6-Trichlorophenol	84.6	10	ug/L	100.0		85	37-144			
2,4-Dichlorophenol	73.0	10	ug/L	100.0		73	39-135			
2,4-Dimethylphenol	73.9	10	ug/L	100.0		74	32-119			
2,4-Dinitrophenol	72.0	10	ug/L	100.0		72	10-191			
2,4-Dinitrotoluene	99.0	10	ug/L	100.0		99	39-139			
2,6-Dinitrotoluene	97.8	10	ug/L	100.0		98	50-158			
2-Chloronaphthalene	104	10	ug/L	100.0		104	60-118			
2-Chlorophenol	75.8	10	ug/L	100.0		76	23-134			
2-Methylnaphthalene	78.1	10	ug/L	100.0		78	18-121			
2-Nitrophenol	71.5	10	ug/L	100.0		72	29-182			
3,3'-Dichlorobenzidine	96.7	10	ug/L	100.0		97	10-262			
3/4-Methylphenol	72.2	10	ug/L	100.0		72	76-107			L
4,6-Dinitro-2-methylphenol	96.3	10	ug/L	100.0		96	10-181			
4-Bromophenyl phenyl ether	89.0	10	ug/L	100.0		89	53-127			
4-Chloro-3-methylphenol	75.2	10	ug/L	100.0		75	22-147			
4-Chloroaniline	90.3	10	ug/L	100.0		90	44-163			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
LCS (P5C0144-BS1)				Prepared: 03/09/15 Analyzed: 03/11/15						
4-Chlorophenyl phenyl ether	88.3	10	ug/L	100.0		88	25-158			
4-Nitrophenol	37.0	50	ug/L	100.0		37	10-132			J
Acenaphthene	88.6	10	ug/L	100.0		89	47-145			
Acenaphthylene	87.4	10	ug/L	100.0		87	33-145			
Anthracene	93.6	10	ug/L	100.0		94	27-133			
Benzidine	201	100	ug/L	100.0		201	15-150			LH
Benzo(a)anthracene	92.3	10	ug/L	100.0		92	33-143			
Benzo(a)pyrene	93.2	10	ug/L	100.0		93	17-163			
Benzo(b)fluoranthene	88.4	10	ug/L	100.0		88	24-159			
Benzo(g,h,i)perylene	90.5	10	ug/L	100.0		90	10-219			
Benzo(k)fluoranthene	93.8	10	ug/L	100.0		94	11-162			
Benzoic Acid	20.9	100	ug/L	100.0		21	10-125			J
Benzyl alcohol	63.3	10	ug/L	100.0		63	16-107			
bis(2-Chloroethoxy)methane	75.7	10	ug/L	100.0		76	33-184			
Bis(2-Chloroethyl)ether	85.4	10	ug/L	100.0		85	12-158			
Bis(2-chloroisopropyl)ether	75.4	10	ug/L	100.0		75	36-166			
Bis(2-Ethylhexyl)phthalate	88.7	10	ug/L	100.0		89	10-158			
Butyl benzyl phthalate	87.9	10	ug/L	100.0		88	10-152			
Chrysene	92.5	10	ug/L	100.0		93	17-168			
Dibenzo(a,h)anthracene	93.1	10	ug/L	100.0		93	10-227			
Dibenzofuran	85.2	10	ug/L	100.0		85	39-114			
Diethyl phthalate	85.5	10	ug/L	100.0		85	10-114			
Dimethyl phthalate	79.5	10	ug/L	100.0		80	10-112			
Di-n-butyl phthalate	89.4	10	ug/L	100.0		89	10-118			
Di-n-octyl phthalate	90.5	10	ug/L	100.0		91	10-146			
Fluoranthene	89.8	10	ug/L	100.0		90	26-137			
Fluorene	89.3	10	ug/L	100.0		89	59-121			
Hexachlorobenzene	93.5	10	ug/L	100.0		94	10-152			
Hexachlorobutadiene	73.9	10	ug/L	100.0		74	24-116			
Hexachlorocyclopentadiene	84.0	10	ug/L	100.0		84	32-117			
Hexachloroethane	79.2	10	ug/L	100.0		79	40-113			
Indeno(1,2,3-cd)pyrene	97.2	10	ug/L	100.0		97	10-171			
Isophorone	87.3	10	ug/L	100.0		87	21-196			
Naphthalene	74.4	10	ug/L	100.0		74	21-133			
Nitrobenzene	81.0	10	ug/L	100.0		81	35-180			
N-Nitrosodimethylamine	51.0	10	ug/L	100.0		51	10-119			
N-Nitroso-di-n-propylamine	87.1	10	ug/L	100.0		87	10-230			
N-Nitrosodiphenylamine	92.3	10	ug/L	100.0		92	69-152			
Pentachlorophenol	79.7	10	ug/L	100.0		80	14-176			
Phenanthrene	89.2	10	ug/L	100.0		89	54-120			
Phenol	43.0	10	ug/L	100.0		43	10-112			
Pyrene	89.5	10	ug/L	100.0		89	52-115			
Surrogate: 2,4,6-Tribromophenol	*83.2*		*ug/L*	*100.0*		*83*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*47.4*		*ug/L*	*50.00*		*95*	*49-118*			
Surrogate: 2-Fluorophenol	*56.5*		*ug/L*	*100.0*		*57*	*22-84*			
Surrogate: Nitrobenzene-d5	*41.5*		*ug/L*	*50.00*		*83*	*43-123*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
LCS (P5C0144-BS1)				Prepared: 03/09/15 Analyzed: 03/11/15						
Surrogate: Phenol-d5	*36.4*		*ug/L*	*100.0*		*36*	*10-63*			
Surrogate: Terphenyl-d14	*51.0*		*ug/L*	*50.00*		*102*	*49-151*			
LCS Dup (P5C0144-BSD1)				Prepared: 03/09/15 Analyzed: 03/11/15						
1,2,4-Trichlorobenzene	76.4	10	ug/L	100.0		76	44-142	1	20	
1,2-Dichlorobenzene	78.8	10	ug/L	100.0		79	32-129	0.04	20	
1,3-Dichlorobenzene	77.4	10	ug/L	100.0		77	20-124	2	20	
1,4-Dichlorobenzene	77.3	10	ug/L	100.0		77	20-124	2	20	
1-Methylnaphthalene	75.4	10	ug/L	100.0		75	40-135	2	20	
2,4,6-Trichlorophenol	88.9	10	ug/L	100.0		89	37-144	5	20	
2,4-Dichlorophenol	74.0	10	ug/L	100.0		74	39-135	1	20	
2,4-Dimethylphenol	74.6	10	ug/L	100.0		75	32-119	1	20	
2,4-Dinitrophenol	70.8	10	ug/L	100.0		71	10-191	2	20	
2,4-Dinitrotoluene	104	10	ug/L	100.0		104	39-139	4	20	
2,6-Dinitrotoluene	100	10	ug/L	100.0		100	50-158	3	20	
2-Chloronaphthalene	106	10	ug/L	100.0		106	60-118	2	20	
2-Chlorophenol	75.7	10	ug/L	100.0		76	23-134	0.2	20	
2-Methylnaphthalene	77.4	10	ug/L	100.0		77	18-121	0.9	20	
2-Nitrophenol	73.8	10	ug/L	100.0		74	29-182	3	20	
3,3'-Dichlorobenzidine	101	10	ug/L	100.0		101	10-262	4	20	
3/4-Methylphenol	73.1	10	ug/L	100.0		73	76-107	1	20	L
4,6-Dinitro-2-methylphenol	94.8	10	ug/L	100.0		95	10-181	2	20	
4-Bromophenyl phenyl ether	92.3	10	ug/L	100.0		92	53-127	4	20	
4-Chloro-3-methylphenol	77.2	10	ug/L	100.0		77	22-147	3	20	
4-Chloroaniline	89.8	10	ug/L	100.0		90	44-163	0.6	20	
4-Chlorophenyl phenyl ether	91.1	10	ug/L	100.0		91	25-158	3	20	
4-Nitrophenol	38.7	50	ug/L	100.0		39	10-132	5	20	J
Acenaphthene	90.2	10	ug/L	100.0		90	47-145	2	20	
Acenaphthylene	91.8	10	ug/L	100.0		92	33-145	5	20	
Anthracene	96.2	10	ug/L	100.0		96	27-133	3	20	
Benzidine	213	100	ug/L	100.0		213	15-150	6	20	LH
Benzo(a)anthracene	92.7	10	ug/L	100.0		93	33-143	0.5	20	
Benzo(a)pyrene	95.5	10	ug/L	100.0		96	17-163	2	20	
Benzo(b)fluoranthene	91.0	10	ug/L	100.0		91	24-159	3	20	
Benzo(g,h,i)perylene	91.4	10	ug/L	100.0		91	10-219	1	20	
Benzo(k)fluoranthene	94.4	10	ug/L	100.0		94	11-162	0.6	20	
Benzoic Acid	9.70	100	ug/L	100.0		10	10-125	73	20	D, J
Benzyl alcohol	65.0	10	ug/L	100.0		65	16-107	3	20	
bis(2-Chloroethoxy)methane	74.6	10	ug/L	100.0		75	33-184	1	20	
Bis(2-Chloroethyl)ether	83.1	10	ug/L	100.0		83	12-158	3	20	
Bis(2-chloroisopropyl)ether	75.3	10	ug/L	100.0		75	36-166	0.2	20	
Bis(2-Ethylhexyl)phthalate	91.1	10	ug/L	100.0		91	10-158	3	20	
Butyl benzyl phthalate	90.0	10	ug/L	100.0		90	10-152	2	20	
Chrysene	97.1	10	ug/L	100.0		97	17-168	5	20	
Dibenzo(a,h)anthracene	95.2	10	ug/L	100.0		95	10-227	2	20	
Dibenzofuran	87.0	10	ug/L	100.0		87	39-114	2	20	
Diethyl phthalate	89.0	10	ug/L	100.0		89	10-114	4	20	

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0144 - 625										
LCS Dup (P5C0144-BSD1)				Prepared: 03/09/15 Analyzed: 03/11/15						
Dimethyl phthalate	81.9	10	ug/L	100.0		82	10-112	3	20	
Di-n-butyl phthalate	91.2	10	ug/L	100.0		91	10-118	2	20	
Di-n-octyl phthalate	91.8	10	ug/L	100.0		92	10-146	1	20	
Fluoranthene	92.0	10	ug/L	100.0		92	26-137	2	20	
Fluorene	92.0	10	ug/L	100.0		92	59-121	3	20	
Hexachlorobenzene	94.8	10	ug/L	100.0		95	10-152	1	20	
Hexachlorobutadiene	74.6	10	ug/L	100.0		75	24-116	0.9	20	
Hexachlorocyclopentadiene	85.6	10	ug/L	100.0		86	32-117	2	20	
Hexachloroethane	79.6	10	ug/L	100.0		80	40-113	0.5	20	
Indeno(1,2,3-cd)pyrene	97.4	10	ug/L	100.0		97	10-171	0.2	20	
Isophorone	86.4	10	ug/L	100.0		86	21-196	1	20	
Naphthalene	73.6	10	ug/L	100.0		74	21-133	1	20	
Nitrobenzene	80.8	10	ug/L	100.0		81	35-180	0.2	20	
N-Nitrosodimethylamine	51.1	10	ug/L	100.0		51	10-119	0.3	20	
N-Nitroso-di-n-propylamine	86.6	10	ug/L	100.0		87	10-230	0.5	20	
N-Nitrosodiphenylamine	94.9	10	ug/L	100.0		95	69-152	3	20	
Pentachlorophenol	81.8	10	ug/L	100.0		82	14-176	3	20	
Phenanthrene	92.4	10	ug/L	100.0		92	54-120	4	20	
Phenol	40.7	10	ug/L	100.0		41	10-112	5	20	
Pyrene	92.2	10	ug/L	100.0		92	52-115	3	20	
Surrogate: 2,4,6-Tribromophenol	*89.1*		*ug/L*	*100.0*		*89*	*31-144*			
Surrogate: 2-Fluorobiphenyl	*47.9*		*ug/L*	*50.00*		*96*	*49-118*			
Surrogate: 2-Fluorophenol	*55.8*		*ug/L*	*100.0*		*56*	*22-84*			
Surrogate: Nitrobenzene-d5	*41.2*		*ug/L*	*50.00*		*82*	*43-123*			
Surrogate: Phenol-d5	*35.6*		*ug/L*	*100.0*		*36*	*10-63*			
Surrogate: Terphenyl-d14	*52.7*		*ug/L*	*50.00*		*105*	*49-151*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0152 - MADEP VPH (W)										
Blank (P5C0152-BLK1)				Prepared & Analyzed: 03/09/15						
C5-C8 Aliphatics	BRL	50	ug/L							
C9-C12 Aliphatics	BRL	50	ug/L							
C9-C10 Aromatics	BRL	50	ug/L							
Surrogate: 2,5-Dibromotoluene (PID)	*82.8*		*ug/L*	*100.0*		*83*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*89.1*		*ug/L*	*100.0*		*89*	*70-130*			
LCS (P5C0152-BS1)				Prepared & Analyzed: 03/09/15						
C5-C8 Aliphatics	336	50	ug/L	300.0		112	70-130			
C9-C10 Aromatics	94.7	50	ug/L	100.0		95	70-130			
C9-C12 Aliphatic	341	50	ug/L	300.0		114	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*91.6*		*ug/L*	*100.0*		*92*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*98.0*		*ug/L*	*100.0*		*98*	*70-130*			
LCS Dup (P5C0152-BSD1)				Prepared & Analyzed: 03/09/15						
C5-C8 Aliphatics	324	50	ug/L	300.0		108	70-130	3	50	
C9-C10 Aromatics	92.5	50	ug/L	100.0		93	70-130	2	50	
C9-C12 Aliphatic	341	50	ug/L	300.0		114	70-130	0.004	50	
Surrogate: 2,5-Dibromotoluene (PID)	*89.1*		*ug/L*	*100.0*		*89*	*70-130*			
Surrogate: 2,5-Dibromotoluene (FID)	*95.4*		*ug/L*	*100.0*		*95*	*70-130*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0172 - MADEP EPH (W)										
Blank (P5C0172-BLK1)				Prepared: 03/10/15 Analyzed: 03/11/15						
C9-C18 Aliphatics	BRL	100	ug/L							
C19-C36 Aliphatics	BRL	100	ug/L							
C11-C22 Aromatics	BRL	100	ug/L							
Surrogate: 1-Chlorooctadecane	*15.7*		*ug/L*	*20.00*		*78*	*40-140*			
Surrogate: o-Terphenyl	*16.2*		*ug/L*	*20.00*		*81*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*31.3*		*ug/L*	*40.00*		*78*	*40-140*			
Surrogate: 2-Bromonaphthalene	*24.2*		*ug/L*	*40.00*		*60*	*40-140*			
LCS (P5C0172-BS1)				Prepared: 03/10/15 Analyzed: 03/11/15						
C9-C18 Aliphatics	401	100	ug/L	600.0		67	40-140			
C19-C36 Aliphatics	833	100	ug/L	800.0		104	40-140			
C11-C22 Aromatics	1210	100	ug/L	1700		71	40-140			
Surrogate: 1-Chlorooctadecane	*16.4*		*ug/L*	*20.00*		*82*	*40-140*			
Surrogate: o-Terphenyl	*17.2*		*ug/L*	*20.00*		*86*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*32.8*		*ug/L*	*40.00*		*82*	*40-140*			
Surrogate: 2-Bromonaphthalene	*26.2*		*ug/L*	*40.00*		*66*	*40-140*			
LCS Dup (P5C0172-BSD1)				Prepared: 03/10/15 Analyzed: 03/11/15						
C9-C18 Aliphatics	426	100	ug/L	600.0		71	40-140	6	50	
C19-C36 Aliphatics	861	100	ug/L	800.0		108	40-140	3	50	
C11-C22 Aromatics	1310	100	ug/L	1700		77	40-140	8	50	
Surrogate: 1-Chlorooctadecane	*17.5*		*ug/L*	*20.00*		*87*	*40-140*			
Surrogate: o-Terphenyl	*18.4*		*ug/L*	*20.00*		*92*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*32.2*		*ug/L*	*40.00*		*80*	*40-140*			
Surrogate: 2-Bromonaphthalene	*30.7*		*ug/L*	*40.00*		*77*	*40-140*			
Matrix Spike (P5C0172-MS1)	**Source: 5030070-01**			Prepared: 03/10/15 Analyzed: 03/11/15						
C9-C18 Aliphatics	941	200	ug/L	1200	BRL	78	40-140			
C19-C36 Aliphatics	1610	200	ug/L	1600	BRL	101	40-140			
C11-C22 Aromatics	2920	200	ug/L	3400	BRL	86	40-140			
Surrogate: 1-Chlorooctadecane	*37.5*		*ug/L*	*40.00*		*94*	*40-140*			
Surrogate: o-Terphenyl	*39.9*		*ug/L*	*40.00*		*100*	*40-140*			
Surrogate: 2-Fluorobiphenyl	*69.8*		*ug/L*	*80.00*		*87*	*40-140*			
Surrogate: 2-Bromonaphthalene	*71.3*		*ug/L*	*80.00*		*89*	*40-140*			

AECOM (Charlotte)
Attn: James McDorman
6000 Fairview Road, Suite 200
Charlotte, NC 28210

Project: Charlotte Airport Phase II

Prism Work Order: 5030070
Time Submitted: 3/4/2015 3:50:00PM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5C0138 - 3010A										
Blank (P5C0138-BLK1)				Prepared & Analyzed: 03/09/15						
Lead	BRL	0.0050	mg/L							
LCS (P5C0138-BS1)				Prepared & Analyzed: 03/09/15						
Lead	0.258	0.0050	mg/L	0.2500		103	80-120			

Sample Extraction Data

Prep Method: MADEP EPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5030070-01	P5C0172	1000 mL	2 mL	03/10/15 13:30

Prep Method: 625

Lab Number	Batch	Initial	Final	Date/Time
5030070-01	P5C0144	1000 mL	1 mL	03/09/15 9:50

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
5030070-01	P5C0138	50 mL	50 mL	03/09/15 8:20

Prep Method: SM6200 B

Lab Number	Batch	Initial	Final	Date/Time
5030070-01	P5C0120	10 mL	10 mL	03/05/15 9:58

Prep Method: MADEP VPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5030070-01	P5C0152	44 mL	44 mL	03/09/15 13:14

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: ____

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IRT40 Observed: 15.1 °C / Corr: 14.2 °C

Client Company Name: AECOM
Report To/Contact Name: Jim MacDonald
Reporting Address: 6000 Fairview Rd Suite 700 Charlotte, NC 28210
Phone: 704.522.0330 Fax (Yes) (No): ____
Email Address: jim.mcdonald@AECOM.com
EDD Type: PDF____ Excel____ Other____
Site Location Name: Rental Car Facilities
Site Location Physical Address: ____

Project Name: Charlotte Airport Rental Car Sites
Short Hold Analysis: (Yes) (No) — No circled
UST Project: (Yes) (NO) — Yes circled
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Michelle Friedman
Address: 5925 Carnegie Rd, Suite 300 Charlotte, NC 28209
Purchase Order No./Billing Reference 60348238
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☑ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC____ SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO X
Sample Iced Upon Collection: YES X NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	*TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	VOCs 6200B	MADEP VPH	SVOCs + 10 TICs	MADEP EPH	Pb	Cr and Pb	REMARKS	PRISM LAB ID NO.
National MW-1	3/4/15	0810	Water	VOA/A/P	6/4/1	—	HCL/none/HCL/HNO3	X	X	X	X	X		Low/Med Boiling Point Fuels	01
~~Hertz MW-11~~	~~|~~	~~1155~~	~~|~~	~~VOA/A~~	~~6/4~~	~~—~~	~~HCL/none/HCL~~	~~X~~	~~X~~	~~X~~	~~X~~			~~Med Boiling Point Fuels~~	~~02~~
~~Hertz MW-5~~	~~|~~	~~1320~~		~~VOA/A/P~~	~~6/4/1~~	~~—~~	~~HCL/none/HCL/HNO3~~	~~X~~	~~X~~	~~X~~	~~X~~		X	~~Used oil Fuels~~	~~03~~

↑ Above cancelled per Byron Hill Phone 3/5/15 1305 [initials]

Sampler's Signature [signature] Sampled By (Print Name) Byron Hill Affiliation AECOM

PRESS DOWN FIRMLY - 3 COPIES

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]			
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	3-4-15	1550

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☑ Hand-delivered ☐ Prism Field Service ☐ Other____

COC Group No. 5030070

NPDES: ☐ NC ☐ SC ☐ | UST: ☐ NC ☐ SC ☐ | GROUNDWATER: ☐ NC ☐ SC ☐ | DRINKING WATER: ☐ NC ☐ SC ☐ | SOLID WASTE: ☐ NC ☐ SC ☐ | RCRA: ☐ NC ☐ SC ☐ | CERCLA ☐ NC ☐ SC ☐ | LANDFILL ☐ NC ☐ SC ☐ | OTHER: ☐ NC ☐ SC ☐

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

About AECOM

With nearly 100,000 employees — including architects, engineers, designers, planners, scientists and management and construction services professionals — serving clients in more than 150 countries around the world following the acquisition of URS, AECOM is a premier, fully integrated infrastructure and support services firm. AECOM is ranked as the #1 engineering design firm by revenue in Engineering News-Record magazine's annual industry rankings. The company is a leader in all of the key markets that it serves, including transportation, facilities, environmental, energy, oil and gas, water, high-rise buildings and government. AECOM provides a blend of global reach, local knowledge, innovation and technical excellence in delivering solutions that create, enhance and sustain the world's built, natural and social environments. A Fortune 500 company, AECOM companies, including URS Corporation and Hunt Construction Group, had revenue of approximately $19.5 billion during the 12 months ended Sept. 30, 2014. More information on AECOM and its services can be found at www.aecom.com.

AECOM Technical Services of North Carolina, Inc.
5925 Carnegie Boulevard, Suite 370
Charlotte, North Carolina 28209
T: +1. 704.553.6150
F: +1. 704.553.6151

Environmental Quality

PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

September 23, 2016

Charlotte Douglas International Airport
5501 Josh Birmingham Pkwy
Charlotte, NC 28208
Attention: Jimmy Jordan

Re: Notice of No Further Action
15A NCAC 2L .0407(d)
Risk-based Assessment and Corrective Action for Petroleum Underground Storage Tanks

Advantage CDIA
4200 Rental Car Rd
Charlotte, NC
Incident Number: **40651**

Mr. Jordan:

The Initial Abatement Action Report received by the UST Section, Division of Waste Management, Region Regional Office on September 12, 2016 has been reviewed. The review indicates that after soil excavation, soil contamination does not exceed the lower of the soil-to-groundwater or residential maximum soil contaminant concentrations (MSCCs), established in Title 15A NCAC 2L .0411. A review of the file also indicates that, although groundwater was encountered during the initial abatement process, groundwater contamination does not exceed the groundwater quality standards established in Title 15A NCAC 2L .0202.

The UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0407(a) you have a continuing obligation to notify the Department of Environmental Quality of any changes that might affect the risk or land use classifications that have been assigned.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required. If you have any questions regarding this notice, please contact me at the address or telephone number listed below.

Sincerely,

Daniel Bowser, PG
Hydrogeologist
Mooresville Regional Office
UST Section, Division of Waste Management, NCDEQ
(704) 235-2172

cc: Shawna Caldwell, LUESA- Mecklenburg County Health Department

cc via email: Brian Olin, ECS

ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

March 6, 2019

Mr. James McDorman, L.G.
Charlotte Douglas Airport
CLT Center, 5601 Wilkinson Blvd.
Charlotte, NC 28208

Re: Conditional Notice of No Further Action
15A NCAC 2L .0407(d)
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

Alamo CDIA
4108 Rental Car Rd, Charlotte
Mecklenburg County
Incident Number: 40650
Risk Classification: Low
Ranking: 125D

Dear Mr. McDorman:

On November 27, 2018, the UST Section, Division of Waste Management, Mooresville Regional Office reduced the risk at this site to low following a review of the file. On December 31, 2018, a Notice of Residual Petroleum (NRP) was received and has been reviewed. Review of the file and the NRP indicates that groundwater contamination meets the cleanup requirements for a low-risk site but exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202. The NRP was approved and recorded and a certified copy was received on February 19, 2019.

The UST Section determines the subject incident to be eligible conditionally for no further action status. However, final approval of no further action status is contingent on receipt of confirmation that public notice requirements have been completed, as described in the following paragraphs.

As groundwater contamination exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202, public notice in accordance with 15A NCAC 2L .0409(b) is required. Thus, within 30 days of receipt of this letter, a copy of the letter must be provided by certified mail, or by posting in a prominent place, if certified mail is impractical, to the local health director, the chief administrative officer of each political jurisdiction in which the contamination occurs, all property owners and occupants within or contiguous to the area containing contamination, and all property owners and occupants within or contiguous to the area where the contamination is expected to migrate. Within 60 days of receiving this letter, this office must be provided with proof of receipt of the copy of the letter or of refusal by the addressee to accept delivery of the copy of the letter or with a description of the manner in which the letter was posted. Interested parties may examine the incident file by contacting this regional office and may submit comments on the site to the regional office at the address or telephone number listed below.

This conditional No Further Action determination will not become valid until public notice requirements are completed. The No Further Action will only apply to this specific UST incident. Other open incidents currently exist on the property and will be addressed separately.

If you have any questions regarding this notice, please contact me at (704) 235-2171 or at the address for the MRO listed below.

Sincerely,

Edward A Leach III

Edward G. Leach, III, L.G.
Hydrogeologist
Mooresville Regional Office
UST Section, Division of Waste Management, NCDEQ

cc: Brett Morris, L.G., Mecklenburg County Groundwater & Wastewater Services (via email)

ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

August 22, 2019

Mr. James McDorman, L.G.
Charlotte Douglas Airport
CLT Center, 5601 Wilkinson Blvd.
Charlotte, NC 28208

Re: Notice of No Further Action
15A NCAC 2L .0407(d)
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

Budget CDIA
4210 Rental Car Road &
Avis CDIA
4000 Rental Car Road, Charlotte
Mecklenburg County
Incident Numbers: 40653 & 40663
Risk Classification: Low

Dear Mr. McDorman:

The UST Section, Mooresville Regional Office reviewed these incidents and found both eligible for site closure. Review of the project files indicates that groundwater contamination meets the cleanup requirements for a low-risk site but exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202.

The UST Section determines that no further action is warranted for these incidents. All required actions have been completed. On April 19, 2019, the UST Section received a certified copy of the Notice of Residual Petroleum which is filed with the Register of Deeds. On August 21, 2019, the UST Section was provided with proof of receipt of the conditional Notice of No Further Action letter or of refusal by the addressee to accept delivery of the letter or with a description of the manner in which the letter was posted.

This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0407(a) you have a continuing obligation to notify the Department of Environmental Quality of any changes that might affect the risk or land use classifications that have been assigned.

Be advised that as groundwater contamination exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where groundwater contamination is expected to migrate is not suitable for use as a water supply.

Interested parties may examine the incident files by contacting this regional office and may submit comments on the site to the regional office at the address or telephone number listed below.

This No Further Action determination applies only to the subject incidents; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

If you have any questions regarding this notice, please contact me at (704) 235-2171 or the address for the MRO listed below.

Sincerely,

Edward G. Leach, III
Hydrogeologist
Mooresville Regional Office
UST Section, Division of Waste Management, NCDEQ

cc: James McDorman, L.G. (via email)
Brett Morris, L.G., Mecklenburg County Groundwater & Wastewater Services (via email)

ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

Mr. James McDorman, L.G.
Charlotte Douglas Airport
CLT Center, 5601 Wilkinson Blvd.
Charlotte, NC 28208

Re: Notice of No Further Action
15A NCAC 2L .0407(d)
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

Hertz-Douglas Airport
4102 Car Rental Road, Charlotte
Mecklenburg County
Incident Number: 5694
Risk Classification: Low
Ranking: 115D

Dear Mr. Jordan:

On August 22, 2017, the UST Section, Division of Waste Management, Mooresville Regional Office reduced the risk of this site to low following a review of the file. The review indicated that groundwater contamination meets the cleanup requirements for a low-risk site but exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202.

The UST Section determines that no further action is warranted for this incident. All required actions have been completed. On February 19, 2019, the UST Section received a certified copy of the Notice of Residual Petroleum which is filed with the Register of Deeds. On June 4, the UST Section was provided with proof of receipt of the conditional Notice of No Further Action letter or of refusal by the addressee to accept delivery of the letter or with a description of the manner in which the letter was posted.

This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0407(a) you have a continuing obligation to notify the Department of Environmental Quality of any changes that might affect the risk or land use classifications that have been assigned.

Be advised that as groundwater contamination exceeds the groundwater quality standards established in Title 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where groundwater contamination is expected to migrate is not suitable for use as a water supply.

Interested parties may examine the incident file by contacting this regional office and may submit comments on the site to the regional office at the address or telephone number listed below.

This No Further Action determination applies only to the subject incident. Any other incidents at the on the same parcel will be addressed by separate correspondence.

If you have any questions regarding this notice, please contact me at (704) 235-2171 or at the address for the MRO listed below.

Sincerely,

Edward G. Leach, III, L.G.
Hydrogeologist
Mooresville Regional Office
UST Section, Division of Waste Management, NCDEQ

cc: Brett Morris, L.G., Mecklenburg County Groundwater & Wastewater Services (via email)

Appendix D

PUBLIC AND AGENCY INVOLVEMENT

PUBLIC AND AGENCY INVOLVEMENT

The Draft EA was sent to agencies and made available for public review and comment. The document was made available at the CLT Center and on https://www.airportprojects.net/clt-concourse-a-phase-ii-ea/ from August 2, 2019 through September 2, 2019. No public comments were received on the Draft EA. One agency letter was submitted by the North Carolina State Environmental Review Clearinghouse and is included in this appendix. The Sponsor provided an opportunity for a public hearing as outlined in FAA Order 5050.4B, Section 404, NOTICE OF OPPORTUNITY FOR A PUBLIC HEARING. The notice, containing all required information, was published in *The Charlotte Observer* on August 2, 2019. No public hearing was requested.

This page intentionally left blank.

Draft EA Notification

This page intentionally left blank.

The Charlotte Observer
charlotteobserver.com
LakeNorman MAGAZINE | SOUTHPARK MAGAZINE | Carolina Bride | CLT Digital

AFFIDAVIT OF PUBLICATION

Account #	Ad Number	Identification
669343	0004322008	Notice of Availability of a Draft Environmental Assessment (EA) for the C

Attention: Gabriela A. Elizondo

LANDRUM & BROWN
4445 LAKE FOREST DRIVE
SUITE 700
CINCINNATI, OH 45242

NOTICE OF AVAILABILITY OF A
DRAFT ENVIRONMENTAL ASSESSMENT (EA)

for the Concourse A Phase II Expansion at the Charlotte Douglas International Airport (CLT). The Concourse A Phase II Expansion would include the construction of one new 10-gate pier on Course A, the paving of aircraft ramp pavement, and the construction of a Ground Support Equipment fueling facility and lavatory station. This notice and opportunity for public involvement is pursuant to FAA Order 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions.*

A Public Hearing can be held if an interest is presented to address the Proposed Action, potential economic, social, and environmental impacts, and the project's consistency with the goals and objectives of the area's land use or planning strategy. Should anyone wish to attend a public hearing on this proposed action or submit a comment on the proposed development please state your request or comment in writing to:

Sarah Potter, Associate Vice President, Landrum & Brown, 4445 Lake Forest Dr., Suite 700, Cincinnati, OH 45242 or email: spotter@landrum-brown.com.

Written requests for a public hearing will be accepted until 5:00 p.m. (EST) Friday, August 16, 2019.

The Draft EA is available for public review until September 2, 2019 during normal business hours at the CLT Center, 5601 Wilkinson Blvd, Charlotte, NC 28219. This Draft EA is also available online at: https://www.airportprojects.net/clt-concourse-a-phase-ii-ea/. Copies of the Draft EA have also been provided to relevant Federal, state, and local agencies.

By including your name, address and telephone number, email or other personal identifying information in your comment, be advised that your entire comment – including your personal identifying information - may be made publicly available at any time. While you can ask us in your comment to withhold from public review your personal identifying information, we cannot guarantee that we will be able to do so.

LP4322008

North Carolina } ss

Mecklenburg County }

Before the undersigned, a Notary Public of said County and State, duly authorized to administer oaths affirmations, etc., personally appeared, being duly sworn or affirmed according to law, doth depose and say that he/she is a representative of The Charlotte Observer Publishing Company, a corporation organized and doing business under the laws of the State of Delaware, and publishing a newspaper known as The Charlotte Observer in the city of Charlotte, County of Mecklenburg, and State of North Carolina and that as such he/she is familiar with the books, records, files, and business of said Corporation and by reference to the files of said publication, the attached advertisement was inserted. The following is correctly copied from the

1 Insertion(s)

Published On:
August 02, 2019

Cherri St. Foster

Cherri Foster, Regional Office Associate

In Testimony Whereof I have hereunto set my hand and affixed my seal on the 5th day of August, 2019

Judith M. Sears

Electronic Notary Public State of North Carolina

My Commission Expires May 17, 2021

The Charlotte Observer

Payment Receipt

Thank You for Payment

Tuesday, July 30, 2019

Transaction Type:	**Payment**
Order Number:	**0004322008**
Payment Method:	**Credit Card**
Bad Debt:	**-**
Credit Card Number:	**************5604**
Credit Card Expire Date:	**11/28/2019**
Payment Amount:	**834.36**
Reference Number:	**025789**
Charge to Company:	**Charlotte**
Category:	**Classified**
Transaction Number:	**P2108325**
Credit to Transaction Number:	**P2108325**
Payment Invoice Text:	
Payment Invoice Notes:	
Order Invoice Text:	**Notice of Availability-EA**

Customer Type:	**Commercial**
Customer Category:	**Miscellaneous**
Customer Status:	
Customer Group:	**Local**
Customer Trade:	**None**
Account Number:	**669343**
Phone Number:	**9563572778**
Company / Individual:	**Company**
Customer Name:	**LANDRUM & BROWN** **LANDRUM & BROWN**
Customer Address:	**4445 LAKE FOREST DRIVE** **SUITE 700** **CINCINNATI, OH 45242 USA**
Check Number:	
Routing Number:	

4445 Lake Forest Dr
Cincinnati, OH 45242
USA
T +1 513 530 5333
F +1 513 530 1278
landrum-brown.com

July 31, 2019

Ms. Amber Leathers
Charlotte Douglas International Airport
5601 Wilkinson Blvd.
Charlotte, NC 28208

Subject: Charlotte Douglas International Airport
Availability of DRAFT Environmental Assessment Document

Dear Ms. Leathers:

Enclosed for your review is a copy of the *DRAFT Environmental Assessment (EA) for the Proposed Concourse A Phase II at the Charlotte Douglas International Airport (CLT)*. The Draft EA is also available online at: https://www.airportprojects.net/clt-concourse-a-phase-ii-ea/. Please make this document easily accessible in your facility so that interested parties may view it. This document should be made available to the public, at a minimum, through September 2, 2019.

If you have any questions about these instructions, please contact me at (513) 530-1271 (voice) or email: spotter@landrum-brown.com.

Sincerely,

Sarah Potter
Associate Vice President
Landrum & Brown, Incorporated

Enclosure

4445 Lake Forest Dr
Cincinnati, OH 45242
USA
T +1 513 530 5333
F +1 513 530 1278
landrum-brown.com

July 31, 2019

Mr. Timothy Alexander
Federal Aviation Administration
Memphis Airports District Office
2600 Thousand Oaks Boulevard, Suite 2250
Memphis, TN 38118

Subject: Charlotte Douglas International Airport
Availability of DRAFT Environmental Assessment Document

Dear Mr. Alexander:

Enclosed for your review is a copy of the *DRAFT Environmental Assessment (EA) for the Proposed Concourse A Phase II at the Charlotte Douglas International Airport (CLT)*. The Draft EA is also available online at: https://www.airportprojects.net/clt-concourse-a-phase-ii-ea/. This document will be made available to the public, at a minimum, through September 2, 2019.

If you have any questions, please contact me at (513) 530-1271 (voice) or email: spotter@landrum-brown.com.

Sincerely,

Sarah Potter

Sarah Potter
Associate Vice President
Landrum & Brown, Incorporated

Enclosure

4445 Lake Forest Dr
Cincinnati, OH 45242
USA
T +1 513 530 5333
F +1 513 530 1278
landrum-brown.com

July 31, 2019

David Shaeffer
Charlotte Regulatory Office
c/o Asheville Regulatory Field Office
U.S. Army Corps of Engineers
151 Patton Avenue, Room 208
Asheville, NC 28801

Subject: Charlotte Douglas International Airport
Availability of DRAFT Environmental Assessment Document

Dear Mr. Shaeffer:

Enclosed for your review is a copy of the *DRAFT Environmental Assessment (EA) for the Proposed Concourse A Phase II at the Charlotte Douglas International Airport (CLT)*. The Draft EA is also available online at: https://www.airportprojects.net/clt-concourse-a-phase-ii-ea/. As discussed in Chapter 5, Section 5.14, no impacts to jurisdictional waters are expected with this project as none are present on the project site.

According to Federal Aviation Administration (FAA) Order 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions*, we are making this document available for public and regulatory agency review and comment. This document is also being sent to the North Carolina State Environmental Review Clearinghouse to coordinate the review by state agencies.

We request that any comments you may have be returned by September 2, 2019. If you have any questions, please contact me at (513) 530-1271 (voice) or email: spotter@landrum-brown.com. Thank you in advance for your time and assistance in this matter.

Sincerely,

Sarah Potter

Sarah Potter
Associate Vice President
Landrum & Brown, Incorporated

Enclosure

4445 Lake Forest Dr
Cincinnati, OH 45242
USA
T +1 513 530 5333
F +1 513 530 1278
landrum-brown.com

July 31, 2019

Mr. Byron Hamstead
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
Asheville Field Office
160 Zillicoa Street, Suite B
Asheville, NC 28801

Subject: Charlotte Douglas International Airport
Availability of DRAFT Environmental Assessment Document

Dear Mr. Hamstead:

The *DRAFT Environmental Assessment (EA) for the Proposed Concourse A Phase II at the Charlotte Douglas International Airport (CLT)* is available online for your review at: https://www.airportprojects.net/clt-concourse-a-phase-ii-ea/. As discussed in Chapter 5, Section 5.12, no impacts to threatened and endangered species are expected with this project as no species or habitat are present on the project site.

According to Federal Aviation Administration (FAA) Order 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions*, we are making this document available for public and regulatory agency review and comment. This document is also being sent to the North Carolina State Environmental Review Clearinghouse to coordinate the review by state agencies.

We request that any comments you may have be returned by September 2, 2019. If you have any questions, please contact me at (513) 530-1271 (voice) or email: spotter@landrum-brown.com. Thank you in advance for your time and assistance in this matter.

Sincerely,

Sarah Potter

Sarah Potter
Associate Vice President
Landrum & Brown, Incorporated

4445 Lake Forest Dr
Cincinnati, OH 45242
USA
T +1 513 530 5333
F +1 513 530 1278
landrum-brown.com

July 31, 2019

Ms. Crystal Best
State Environmental Review Clearinghouse
1301 Mail Service Center
Raleigh, NC 27699

Subject: Charlotte Douglas International Airport
Availability of DRAFT Environmental Assessment Document

Dear Ms. Best:

Enclosed for your review are two (2) hard copies of the *DRAFT Environmental Assessment (EA) for the Proposed Concourse A Phase II at the Charlotte Douglas International Airport (CLT)*. The Draft EA is also available online at: https://www.airportprojects.net/clt-concourse-a-phase-ii-ea/. According to Federal Aviation Administration (FAA) Order 5050.4B, *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions*, we are making this document available for public and regulatory agency review and comment.

We request that any comments you may have be returned by September 2, 2019. If you have any questions, please contact me at (513) 530-1271 (voice) or email: spotter@landrum-brown.com. Thank you in advance for your time and assistance in this matter.

Sincerely,

Sarah Potter

Sarah Potter
Associate Vice President
Landrum & Brown, Incorporated

Enclosure

STATE OF NORTH CAROLINA
DEPARTMENT OF ADMINISTRATION

ROY COOPER
GOVERNOR

MACHELLE SANDERS
SECRETARY

September 10, 2019

Ms. Sarah Potter
Charlotte Douglas International Airport
c/o Landrum & Brown
4445 Lake Forest Drive
Cincinnati, OH 45242

Re: SCH File # 20-E-0000-0031; Proposed project is for the Concourse A Phase II at the Charlotte Douglas International Airport

Dear Ms. Potter:

The above referenced environmental impact information has been submitted to the State Clearinghouse under the provisions of the National Environmental Policy Act. According to G.S. 113A-10, when a state agency is required to prepare an environmental document under the provisions of federal law, the environmental document meets the provisions of the State Environmental Policy Act. Attached to this letter for your consideration are comments made by the agencies in the review of this document.

If any further environmental review documents are prepared for this project, they should be forwarded to this office for intergovernmental review.

Should you have any questions, please do not hesitate to call.

Sincerely,

Crystal Best

Crystal Best
State Environmental Review Clearinghouse

Attachments
cc: Region F

Mailing Address:
NC DEPARTMENT OF ADMINISTRATION
1301 MAIL SERVICE CENTER
RALEIGH, NC 27699-1301

Telephone: (919) 807-2425
Fax: (919) 733-9571
COURIER #51-01-00
Email: state.clearinghouse@doa.nc.gov
Website: www.ncadmin.nc.gov

Location:
116 WEST JONES STREET
RALEIGH, NORTH CAROLINA

ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
JAMIE RAGAN
Director

NORTH CAROLINA
Environmental Quality

MEMORANDUM

To: Crystal Best
State Clearinghouse Coordinator
Department of Administration

From: Lyn Hardison
Division of Environmental Assistance and Customer Service Environmental Assistance and Project Review Coordinator Washington Regional Office

RE: 20-0031
Draft Environmental Assessment - Proposed project is for the Concourse A Phase II at the Charlotte Douglas International Airport.
Mecklenburg County

Date: August 29, 2019

The Department of Environmental Quality has reviewed the information provided. The comments are attached for the applicant's review.

The Department's agencies will continue to be available to assist the applicant through the environmental review and permitting processes.

Thank you for the opportunity to respond.

Attachments

ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

DATE: August 27, 2019

TO: Michael Scott, Division Director through Sharon Brinkley

FROM: Deb Aja, Western District Supervisor - Solid Waste Section

RE: NEPA Project 20-0031, Mecklenburg County, N.C.
Charlotte Douglas International Airport – Concourse A Phase II

The Solid Waste Section has reviewed the *Draft Environmental Assessment for Concourse A Phase II* document for the Charlotte Douglas International Airport project to include the construction of one new 10-gate pier on Course A, the paving of aircraft ramp pavement, and the construction of a Ground Support Equipment fueling facility and lavatory station located in Charlotte, Mecklenburg County, North Carolina. The review has been completed and has found no adverse impact on the surrounding community and likewise knows of no situations in the community, which would affect this project from a solid waste perspective.

During the project, every feasible effort should be made to minimize the generation of waste, to recycle materials for which viable markets exist, and to use recycled products and materials in the development of this project where suitable. Any waste existing at the site or generated by this project that cannot be beneficially reused or recycled must be disposed of at a solid waste management facility approved to manage the respective waste type. The Section strongly recommends that any contractors are required to provide proof of proper disposal for all waste generated as part of the project.

A list of permitted solid waste management facilities is available on the Solid Waste Section portal site at: http://deq.nc.gov/about/divisions/waste-management/waste-management-rules-data/solid-waste-management-annual-reports/solid-waste-permitted-facility-list

Questions regarding the management of solid waste for this project should be directed to Joseph Hack, Mecklenburg County Land Use & Environmental Services, at (980) 314-3864.

Cc: Jason Watkins, Field Operations Branch Head
Teresa Bradford, Environmental Senior Specialist
Joseph Hack, Mecklenburg County

ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
MICHAEL SCOTT
Director

NORTH CAROLINA
Environmental Quality

Date: August 20, 2019

To: Michael Scott, Director
Division of Waste Management

Through: Janet Macdonald
Inactive Hazardous Sites Branch – Special Projects Unit

From: Bonnie S. Ware
Inactive Hazardous Sites Branch

Subject: NEPA Project #20-0031, Charlotte Douglas International Airport, Mecklenburg County, North Carolina

The Superfund Section has reviewed the proximity of sites under its jurisdiction to the Charlotte Douglas International Airport project. Proposed project is for the Concourse A Phase II at the Charlotte Douglas International Airport.

Eight (8) sites were identified within one mile of the project as shown on the attached report. The Superfund Section recommends that site files be reviewed to ensure that appropriate precautions are incorporated into any construction activities that encounter potentially contaminated soil or groundwater. Superfund Section files can be viewed at: http://deq.nc.gov/waste-management-laserfiche.

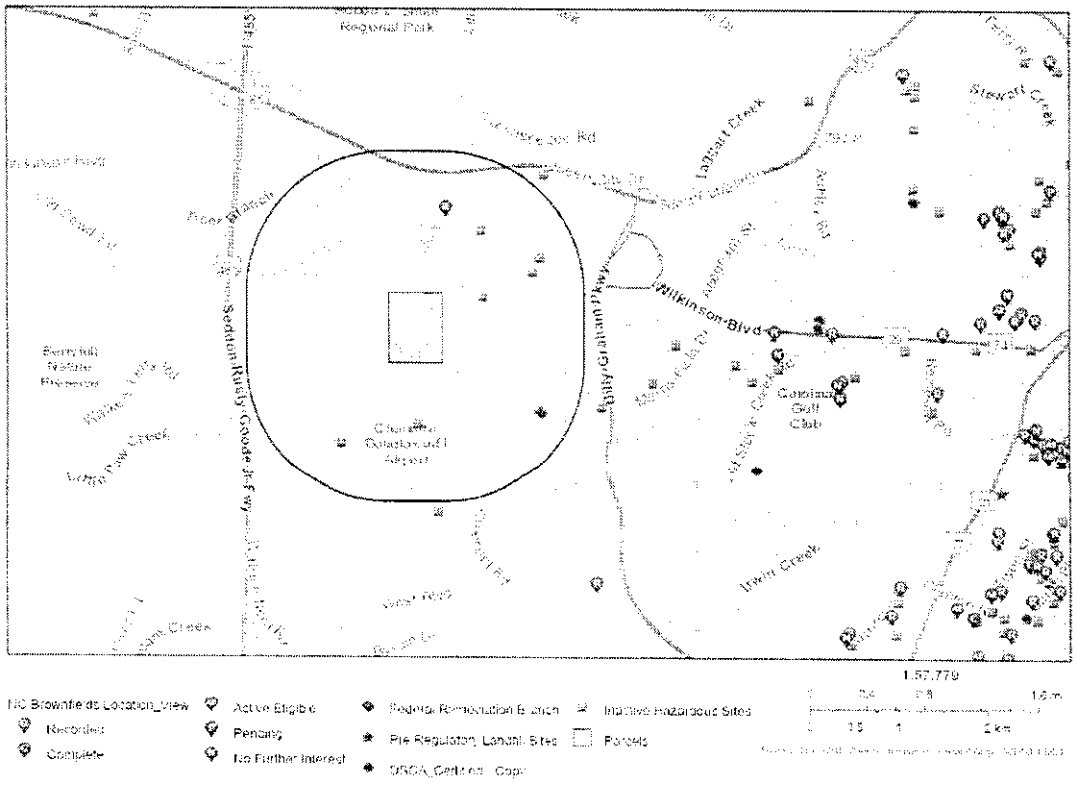
Please contact Janet Macdonald at 919.707.8349 if you have any questions.

SEPA/NEPA Review Report

Area of Interest (AOI) Information

Area : 3,240.09 acres

Aug 20 2019 10:04:22 Eastern Daylight Time



20-0031 Mecklenburg County

Summary

Name	Count	Area(acres)	Length(mi)
Certified DSCA Sites	0	N/A	N/A
Federal Remediation Branch Sites	1	N/A	N/A
Inactive Hazardous Sites	6	N/A	N/A
Pre-Regulatory Landfill Sites	0	N/A	N/A
Brownfields Program Sites	1	N/A	N/A

Federal Remediation Branch Sites

#	SITE_NAME	SITE_ID	Count
1	CHARLOTTE AIR NATIONAL GUARD	DODNC0002	1

Inactive Hazardous Sites

#	EPAID	SITENAME	Count
1	NONCD0000088	TRANS TECHNOLOGY	1
2	NONCD0001219	HARLEE AVENUE CONTAMINATION	1
3	NONCD0001480	CHARLOTTE DOUGLAS AIRPORT 7	1
4	NONCD0001498	MARSHALL AVE PCE	1
5	NONCD0002158	NCDOT ASPHALT SITE #13/REA CONTSRUCTION	1
6	NONCD0002697	WARREN ROAD	1

Brownfields Program Sites

#	BF_ID	BF_Name	Count
1	2105217060	Little Rock Road	1

State of North Carolina Department of Environmental Quality
INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: MRO
Project Number: 20-0031 Due Date: 08/29/2019
County: Mecklenburg

After review of this project it has been determined that the DEQ permit(s) and/or approvals indicated may need to be obtained in order for this project to comply with North Carolina Law. Questions regarding these permits should be addressed to the Regional Office indicated on the reverse of the form. All applications, information and guidelines relative to these plans and permits are available from the same Regional Office.

	PERMITS	SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Processing Time (statutory time limit)
☒	Permit to construct & operate wastewater treatment facilities, non-standard sewer system extensions & sewer systems that do not discharge into state surface waters.	Application 90 days before begins construction or award of construction contracts. On-site inspection may be required. Post-application technical conference usual.	30 days (90 days)
☒	Permit to construct & operate, sewer extensions involving gravity sewers, pump stations and force mains discharging into a sewer collection system	Fast-Track Permitting program consists of the submittal of an application and an engineer's certification that the project meets all applicable State rules and Division Minimum Design Criteria.	30 days (N/A)
☒	NPDES - permit to discharge into surface water and/or permit to operate and construct wastewater facilities discharging into state surface waters.	Application 180 days before begins activity. On-site inspection. Pre-application conference usual. Additionally, obtain permit to construct wastewater treatment facility-granted after NPDES. Reply time, 30 days after receipt of plans or issue of NPDES permit-whichever is later.	90-120 days (N/A)
☐	Water Use Permit	Pre-application technical conference usually necessary.	30 days (N/A)
☐	Well Construction Permit	Complete application must be received and permit issued prior to the installation of a groundwater monitoring well located on property not owned by the applicant, and for a large capacity (>100,000 gallons per day) water supply well.	7 days (15 days)
☐	Dredge and Fill Permit	Application copy must be served on each adjacent riparian property owner. On-site inspection. Pre-application conference usual. Filling may require Easement to Fill from N.C. Department of Administration and Federal Dredge and Fill Permit.	55 days (90 days)
☐	Permit to construct & operate Air Pollution Abatement facilities and/or Emission Sources as per 15 A NCAC (2Q.0100 thru 2Q.0300)	Application must be submitted and permit received prior to construction and operation of the source. If a permit is required in an area without local zoning, then there are additional requirements and timelines (2Q.0113).	90 days
☐	Any open burning associated with subject proposal must be in compliance with 15 A NCAC 2D.1900	N/A	60 days (90 days)
☐	Demolition or renovations of structures containing asbestos material must be in compliance with 15 A NCAC 20.1110 (a) (1) which requires notification and removal prior to demolition. Contact Asbestos Control Group 919-707-5950	Please Note - The Health Hazards Control Unit (HHCU) of the N.C. Department of Health and Human Services, must be notified of plans to demolish a building, including residences for commercial or industrial expansion, even if no asbestos is present in the building.	60 days (90 days)
☒	The Sedimentation Pollution Control Act of 1973 must be properly addressed for any land disturbing activity. An erosion & sedimentation control plan will be required if one or more acres are to be disturbed. Plan must be filed with and approved by applicable Regional Office (Land Quality Section) at least 30 days before beginning activity. A NPDES Construction Stormwater permit (NCG010000) is also usually issued should design features meet minimum requirements. A fee of $65 for the first acre or any part of an acre. An express review option is available with additional fees.		20 days (30 days)
☐	Sedimentation and erosion control must be addressed in accordance with NCDOT's approved program. Particular attention should be given to design and installation of appropriate perimeter sediment trapping devices as well as stable Stormwater conveyances and outlets.		(30 days)
☐	Sedimentation and erosion control must be addressed in accordance with _____ Local Government's approved program. Particular attention should be given to design and installation of appropriate perimeter sediment trapping devices as well as stable Stormwater conveyances and outlets.		Based on Local Program
☐	Compliance with 15A NCAC 2H .0126 - NPDES Stormwater Program which regulates three types of activities: Industrial, Municipal Separate Storm Sewer System & Construction activities that disturb ≥1 acre.		30-60 days (90 days)
☐	Compliance with 15A NCAC 2H 1000 -State Stormwater Permitting Programs regulate site development and post-construction stormwater runoff control. Areas subject to these permit programs include all 20 coastal counties, and various other counties and watersheds throughout the state.		45 days (90 days)

State of North Carolina Department of Environmental Quality
INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: MRO
Project Number: 20-0031 Due Date: 08/29/2019
County: Mecklenburg

	PERMITS	SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Processing Time (statutory time limit)
☐	Mining Permit	On-site inspection usual. Surety bond filed with DEQ Bond amount varies with type mine and number of acres of affected land. Affected area greater than one acre must be permitted. The appropriate bond must be received before the permit can be issued.	30 days (60 days)
☐	Dam Safety Permit	If permit required, application 60 days before begin construction. Applicant must hire N.C. qualified engineer to: prepare plans, inspect construction, and certify construction is according to DEQ approved plans. May also require a permit under mosquito control program. And a 404 permit from Corps of Engineers. An inspection of site is necessary to verify Hazard Classification. A minimum fee of $200.00 must accompany the application. An additional processing fee based on a percentage or the total project cost will be required upon completion.	30 days (60 days)
☐	Oil Refining Facilities	N/A	90-120 days (N/A)
☐	Permit to drill exploratory oil or gas well	File surety bond of $5,000 with DEQ running to State of NC conditional that any well opened by drill operator shall, upon abandonment, be plugged according to DEQ rules and regulations.	10 days N/A
☐	Geophysical Exploration Permit	Application filed with DEQ at least 10 days prior to issue of permit. Application by letter. No standard application form.	10 days N/A
☐	State Lakes Construction Permit	Application fee based on structure size is charged. Must include descriptions & drawings of structure & proof of ownership of riparian property	15-20 days N/A
☒	401 Water Quality Certification	Compliance with the T15A 02H .0500 Certifications are required whenever construction or operation of facilities will result in a discharge into navigable water as described in 33 CFR part 323.	60 days (130 days)
☐	Compliance with Catawba, Goose Creek, Jordan Lake, Randleman, Tar Pamlico or Neuse Riparian Buffer Rules is required. Buffer requirements: http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/401-wetlands-buffer-permits/401-riparian-buffer-protection-program		
☐	Nutrient Offset: Loading requirements for nitrogen and phosphorus in the Neuse and Tar-Pamlico River basins, and in the Jordan and Falls Lake watersheds, as part of the nutrient-management strategies in these areas. DWR nutrient offset information: http://deq.nc.gov/about/divisions/water-resources/planning/nonpoint-source-management/nutrient-offset-information		
☐	CAMA Permit for MAJOR development	$250.00 - $475.00 fee must accompany application	75 days (150 days)
☐	CAMA Permit for MINOR development	$100.00 fee must accompany application	22 days (25 days)
☒	Abandonment of any wells, if required must be in accordance with Title 15A. Subchapter 2C.0100.		
☒	Notification of the proper regional office is requested if "orphan" underground storage tanks (USTS) are discovered during any excavation operation.		
☐	Plans and specifications for the construction, expansion, or alteration of a public water system must be approved by the Division of Water Resources/Public Water Supply Section prior to the award of a contract or the initiation of construction as per 15A NCAC 18C .0300 et. seq., Plans and specifications should be submitted to 1634 Mail Service Center, Raleigh, North Carolina 27699-1634. All public water supply systems must comply with state and federal drinking water monitoring requirements. For more information, contact the Public Water Supply Section, (919) 707-9100.		30 days
☐	If existing water lines will be relocated during the construction, plans for the water line relocation must be submitted to the Division of Water Resources/Public Water Supply Section at 1634 Mail Service Center, Raleigh, North Carolina 27699-1634. For more information, contact the Public Water Supply Section, (919) 707-9100.		30 days
☒	Plans and specifications for the construction, expansion, or alteration of the Charlotte water system must be approved through the Charlotte delegated plan approval authority. Please contact them at 704-336-1015 for further information.		

State of North Carolina Department of Environmental Quality
INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: MRO
Project Number: 20-0031 Due Date: 08/29/2019
County: Mecklenburg

Other Comments (attach additional pages as necessary, being certain to comment authority)

Division	Initials	No comment	Comments	Date Review
DAQ	CA	☐	This is located in Mecklenburg County and should be referred to the local program	8/9/19
DWR-WQROS (Aquifer & Surface)	JB &	☐	See Attachment (E-Mail) &	8/22/19 / /
DWR-PWS	JHW	☐	See above items	8/9/19
DEMLR (LQ & SW)	ZSK	☐	See Above items	8/16/19
DWM – UST	RHT	☐	RE: Project Review Form: 20-0031 I have read through the scoping document for the proposed project. The following comments are pertinent to my review: 1. The Mooresville Regional Office (MRO) UST Section recommends removal of any abandoned or out-of-use petroleum USTs or petroleum above ground storage tanks (ASTs) within the project area. The UST Section should be contacted regarding use of any proposed or on-site petroleum USTs or ASTs. We may be reached at 704-663-1699. 2. Any petroleum spills must be contained and the area of impact must be properly restored. Petroleum spills of significant quantity must be reported to the North Carolina Department of Environment & Natural Resources – Division of Waste Management Underground Storage Tank Section in the Mooresville Regional Office at 704-663-1699. 3. Any soils excavated during demolition or construction that show evidence of petroleum contamination, such as stained soil, odors, or free product must be reported immediately to the local Fire Marshall to determine whether explosion or inhalation hazards exist. Also, notify the UST Section of the Mooresville Regional Office at 704-663-1699. Petroleum contaminated soils must be handled in accordance with all applicable regulations. 4. It is our understanding that incidents 5694 and 40663 will be closed out prior to the proposed activities. If you have any questions or need additional information, please contact me at Ron.Taraban@ncdenr.gov or by phone at 704-235-2167.	8/20/19
Other Comments		☐		/ /

REGIONAL OFFICES

Questions regarding these permits should be addressed to the Regional Office marked below.

☐ **Asheville Regional Office**
2090 U.S. 70 Highway
Swannanoa, NC 28778-8211
Phone: 828-296-4500
Fax: 828-299-7043

☐ **Fayetteville Regional Office**
225 Green Street, Suite 714,
Fayetteville, NC 28301-5043
Phone: 910-433-3300
Fax: 910-486-0707

☒ **Mooresville Regional Office**
610 East Center Avenue, Suite 301,
Mooresville, NC 28115
Phone: 704-663-1699
Fax: 704-663-6040

☐ **Raleigh Regional Office**
3800 Barrett Drive,
Raleigh, NC 27609
Phone: 919-791-4200
Fax: 919-571-4718

☐ **Washington Regional Office**
943 Washington Square Mall,
Washington, NC 27889
Phone: 252-946-6481
Fax: 252-975-3716

☐ **Wilmington Regional Office**
127 Cardinal Drive Ext.,
Wilmington, NC 28405
Phone: 910-796-7215
Fax: 910-350-2004

ROY COOPER
Governor
MICHAEL S. REGAN
Secretary
LINDA CULPEPPER
Director

NORTH CAROLINA
Environmental Quality

August 27, 2019

MEMORANDUM

To: Lyn Hardison
Department of Environmental Quality

From: David Wainwright
SEPA Coordinator, Division of Water Resources

Subject: SCH #20-0031
Proposed Concourse A Phase II at Charlotte Douglas International Airport
Mecklenburg County

The Division of Water Resources' Mooresville Regional Office (MRO) staff have reviewed the Draft Environmental Assessment for the proposed Concourse A Phase II at the Charlotte Douglas International Airport (dated August 2019). Staff provides the following comments:

- In reference to the maps provided, it appears that a Section 401 Water Quality Certification/Section 404 Permit may be necessary. Potential stream impacts should be determined prior to construction.
- Modification to NPDES Wastewater, and Wastewater Collection System Permits may be necessary if existing facilities are to be modified as a result of the project; NPDES Stormwater Permitting may be required through DEMLR.
- If located, wells should be properly abandoned.

The Division of Water Resources thanks you for the opportunity to comment. Should you have questions regarding any of the above comments, please contact the MRO at 704-663-1699.

NORTH CAROLINA STATE CLEARINGHOUSE
DEPARTMENT OF ADMINISTRATION
INTERGOVERNMENTAL REVIEW

AUG 6 2019

COUNTY: MECKLENBURG

F03: AIRPORTS

STATE NUMBER: 20-E-0000-0031
DATE RECEIVED: 08/02/2019
AGENCY RESPONSE: 08/29/2019
REVIEW CLOSED: 09/03/2019

MS CINDY WILLIAMS
CLEARINGHOUSE COORDINATOR
DPS - DIV OF EMERGENCY MANAGEMENT
FLOODPLAIN MANAGEMENT PROGRAM
4218 MAIL SERVICE CENTER
RALEIGH NC

REVIEW DISTRIBUTION

CENTRALINA COG
DEPT OF AGRICULTURE
DEPT OF ENVIRONMENTAL QUALITY
DEPT OF NATURAL & CULTURAL RESOURCE
DEPT OF TRANSPORTATION
DNCR - NATURAL HERITAGE PROGRAM
DOA - COMMISSION OF INDIAN AFFAIRS
DPS - DIV OF EMERGENCY MANAGEMENT

PROJECT INFORMATION

APPLICANT: Charlotte Douglas International Airport
TYPE: National Environmental Policy Act
Environmental Assessment

DESC: Draft EA - Proposed project is for the Concourse A Phase II at the Charlotte Douglas International Airport - View document at: http://www.airportprojects.net/clt-concourse-a-phase-ii-ea/

The attached project has been submitted to the N. C. State Clearinghouse for intergovernmental review. Please review and submit your response by the above indicated date to 1301 Mail Service Center, Raleigh NC 27699-1301.

If additional review time is needed, please contact this office at (919)807-2425.

AS A RESULT OF THIS REVIEW THE FOLLOWING IS SUBMITTED: ☑ NO COMMENT ☐ COMMENTS ATTACHED

SIGNED BY: David Heilong DATE: 8/6/19

NORTH CAROLINA STATE CLEARINGHOUSE
DEPARTMENT OF ADMINISTRATION
INTERGOVERNMENTAL REVIEW

COUNTY: MECKLENBURG

F03: AIRPORTS

STATE NUMBER: 20-E-0000-0031
DATE RECEIVED: 08/02/2019
AGENCY RESPONSE: 08/29/2019
REVIEW CLOSED: 09/03/2019

MR GREG RICHARDSON
CLEARINGHOUSE COORDINATOR
DOA - COMMISSION OF INDIAN AFFAIRS
1317 MAIL SERVICE CENTER
RALEIGH NC

REVIEW DISTRIBUTION

CENTRALINA COG
DEPT OF AGRICULTURE
DEPT OF ENVIRONMENTAL QUALITY
DEPT OF NATURAL & CULTURAL RESOURCE
DEPT OF TRANSPORTATION
DNCR - NATURAL HERITAGE PROGRAM
DOA - COMMISSION OF INDIAN AFFAIRS
DPS - DIV OF EMERGENCY MANAGEMENT

RECEIVED
Indian Affairs
AUG 06 2019
Office
DOA

PROJECT INFORMATION

APPLICANT: Charlotte Douglas International Airport
TYPE: National Environmental Policy Act
Environmental Assessment

DESC: Draft EA - Proposed project is for the Concourse A Phase II at the Charlotte Douglas International Airport - View document at: http://www.airportprojects.net/clt-concourse-a-phase-ii-ea/

The attached project has been submitted to the N. C. State Clearinghouse for intergovernmental review. Please review and submit your response by the above indicated date to 1301 Mail Service Center, Raleigh NC 27699-1301.

If additional review time is needed, please contact this office at (919)807-2425.

AS A RESULT OF THIS REVIEW THE FOLLOWING IS SUBMITTED: [✓] NO COMMENT [ ] COMMENTS ATTACHED

SIGNED BY: _____ DATE: _____