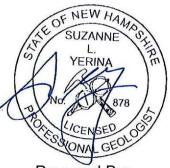
DES Waste Management Division 29 Hazen Drive; PO Box 95 Concord, NH 03302-0095

NOVEMBER 2020 SPRING 2020 SAMPLING EVENT ANALYTICAL RESULTS Coakley Landfill Superfund Site North Hampton and Greenland New Hampshire

NHDES Site #: 198712001 Project Type: Superfund Site

Prepared For: New Hampshire Department of Environmental Services 29 Hazen Drive Concord, New Hampshire 03302-0095

Suzann e Yerina Digitally signed by Suzanne Yerina Date: 2020.11.11 13:44:10 -05'00'



Prepared By: CES, Inc. 415 Lisbon Street Lewiston, Maine 04240 Phone Number: (207) 795-6009 Contact Name: Suzanne Yerina Contact Email: syerina@cesincusa.com

Date of Report: (November 2020)

Groundwater Monitoring Report Cover Sheet

Site Name: Coakley Landfill

Town: North Hampton, New Hampshire

Permit #: GWP-198712001-N-002

Type of Submittal (Check all that apply)

Periodic Summary Report	(year): Spring 2020
-------------------------	---------------------

Data Submittal (month and year per Condition #7 of Permit):

Check each box where the answer to any of the following questions is "YES"

Sampling Results

Du	ring the mo	st recent i	nonitori	ng ev	vent,	were	any	new	comp	ound	s det	ect	ed	at a	any
sai	mpling poin	t?													
	Well/Comp	oound:													
			-												

Are there any detections of contamination in drinking water that is untreated prior to use? <u>None</u>

Well/Compound:

Do compounds detected exceed

Was free product detected for the first time in any mon	itoring	point?
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Surface Water (visible sheen)

Groundwater (1/8" or greater thickness)

Location/Thickness:

Contaminant Trends

Do sampling results show an increasing concentration trend in any source area monitoring well?

Well/Compound:

Do sampling results indicate an AGQS violation in any of the GMZ boundary wells? Well/Compound: <u>FPC-6A (1,4-dioxane, arsenic, manganese, and PFOA);FPC- 6B (1,4-dioxane</u>

and PFOA); FPC-9A (arsenic, 1,4-dioxane, PFOA, and PFOS); FPC-9B (1,4-dioxane and PFOA); FPC-11A (1,4-dioxane and PFOA); FPC-11B (manganese); FPC-3C (arsenic); AE-1A (1,4-dioxane and arsenic); AE-1B (1,4-dioxane); MW-20D2 (1,4-dioxane); MW-21S (1,4-dioxane, PFOA, PFHxS, PFNA, and PFOS); MW-21D1 (arsenic)

Recommendations

Does the report include any recommendations requiring DES action? (*Do not check this box if the only recommendation is to continue with existing permit conditions.*)



November 10, 2020

Peter Britz Coakley Project Coordinator 1 Junkins Avenue Portsmouth, New Hampshire 03801

RE: Results of Spring 2020 Groundwater Sampling at the Coakley Landfill North Hampton, New Hampshire

Dear Mr. Britz:

CES, Inc (CES) has completed the first semiannual sampling event for 2020 between May 11 and June 11, 2020. This letter is intended to provide the Coakley Landfill Group (CLG) with a brief preliminary assessment of the data to comply with United States Environmental Protection Agency (USEPA) and New Hampshire Department of Environmental Services (NHDES) request to receive a copy of validated data tables following receipt of analytical data.

Sampling was performed for groundwater, private water supply wells, surface water, landfill leachate seep, and sediment in accordance with the project Sampling and Analysis Plan (SAP) submitted on July 31, 2018. Laboratory analysis was completed by Eastern Analytical, Inc. (EAI) of Concord, New Hampshire, and Vista Analytical Laboratory (Vista) of El Dorado Hills, California. Quality Assurance Associates (QAA) of College Station, Texas, completed the Tier 1 Plus Data Validation.

A Site plan showing the sampling locations is included as **Figure 1**. Groundwater sampling was completed within Operable Unit-1 (OU-1) and Operable Unit-2 (OU-2). OU-1 includes the area in the immediate vicinity of the landfill where source control actions were completed to reduce impacts to surface water and groundwater quality and to eliminate threats possibly posed by direct contact with or ingestion of contaminated media at the Site. OU-2 includes the area beyond the landfill where the objective is to monitor the natural attenuation of water quality impacts and minimize exposure to potential receptors caused by groundwater and surface water migrating away from the Site. **Table 1** through **Table 7** include the validated analytical results of the Spring 2020 sampling event.

The 2020 Annual Summary Report will be completed following the Fall 2020 sampling event and include:

Tables summarizing the results of the two monitoring events completed in 2020;





- Time series plots for each monitoring point for contaminants of concern (COC) that exceeded a Cleanup Level (CL), Ambient Groundwater Quality Standard (AGQS), or Lifetime Health Advisory (HA);
- Statistical trend analysis for contaminants of concern at monitoring points where CLs/AGQS/HAs were exceeded;
- Isoconcentration contour figures, prepared from Fall event results only, unless the parameter is only sampled during the Spring 2020 sampling event (i.e. arsenic and manganese). Figures will illustrate the contaminant concentrations for which CLs/AGQS/HAs were exceeded;
- Discussion of well depths to determine if silt, sand, or other obstructions may be impeding or compromising the use of the well as a sampling point;
- Discussion of temporal trends in contaminants of concern in the context of the progress of the natural attenuation remedy for the restoration of groundwater, surface water, and sediment quality; and,
- Recommendations for any remedial actions, for future modifications to the current monitoring program and/or for implementation of corrective actions to address issues noted during the sampling events during the calendar year.

SAMPLING RESULTS

Groundwater Level Monitoring

Prior to the onset of the sampling event, CES measured and recorded a synoptic round of static groundwater levels using an electronic water level meter capable of measuring in 0.01-foot increments. A summary of these elevations has been provided in **Table 1.1** and include historical groundwater elevations since April 2001. In general, groundwater elevations at each well are consistent with historical averages. Following the collection of groundwater measurements during the Fall 2020 sampling event, groundwater potentiometric surface maps will be generated for overburden and bedrock groundwater monitoring wells.

Vertical Groundwater Gradients

Vertical groundwater gradients were calculated at 18 well pairs (e.g., AE-1A/-1B) or triplets (e.g., FPC-3A/-3B/-3C) based on synoptic water level gauging measurements completed during the Spring 2020 sampling event. A summary of water level measurements and corresponding calculation of vertical gradients is included on **Table 1.2**. For the purpose of categorizing locations as showing an upward, downward or neutral gradient, paired wells exhibiting 0.1 feet or less of difference are considered neutral, while wells with greater than 0.1 feet of difference in water levels are designated as upward or downward.

In general, vertical groundwater gradients were similar to those observed during the Spring 2019 sampling event (where calculated) with the exception of four well pairs. Three well pairs (FPC-3A/-3B, FPC-9A/-9B, and FPC-11A/-11B) exhibited a change in the spring gradient from neutral to downward with one well pair (FPC-3A/-3C) changing from upward to neutral. These data will be compared to those calculated during the Fall 2020 sampling event and discussed further in the 2020 Annual Groundwater Quality Report.





Well Depth Comparison

The SAP requires measurement of well depths during the sampling event prior to USEPA 5-Year Reviews to determine the presence of silt, sand, or other obstructions that may impede or compromise use of the well as a sampling location. The next USEPA 5-Year Review will be completed in 2021.

Following the measurement of static water level at each location, CES measured the total well depth using a weighted electronic water level meter capable of measuring in 0.01-foot increments. Current and historical well depth measurements are summarized in **Table 2**.

Of the forty-nine wells that had well depths measured, three monitoring wells (FPC-3A, FPC-5A, and FPC-9A) had a greater than one foot well depth variance from the 2012 reported well depths. No evidence was observed in 2020 water quality monitoring results that indicate water quality analyses are being affected by sediment in the wells other than at well FPC-9A. However, based on the calculated variances in those wells listed above, we recommend that wells FPC-3A, FPC-5A, and FPC-9A be further evaluated and redeveloped.

Groundwater Sampling

Groundwater was sampled at a total of 11 OU-1 groundwater monitoring wells and 38 OU-2 groundwater monitoring wells during the Spring 2020 event.

Arsenic concentrations were reported above the USEPA CL and NHDES AGQS of 0.01 milligrams per liter (mg/L) in 6 OU-1 wells and 10 OU-2 wells. Manganese was detected at concentrations above the CL (0.3 mg/L) and/or AGQS (0.84 mg/L) in 11 OU-1 wells and 13 OU-2 wells (Table 3). With few exceptions, arsenic and manganese results are similar to 2019 results and are considered largely stable. Detections of arsenic and manganese were within historical concentration ranges with the exception of arsenic at FPC-9B (0.0019 mg/L) and manganese at MW-6 (4 mg/L), AE-1A (0.6 mg/L), AE-3A (2 mg/L), FPC-2A (1.2 mg/L), and FPC-9B (0.18 mg/L). Arsenic and manganese concentrations at these wells were reported above their historical ranges. It should be noted that MW-6 was redeveloped in preparation for ongoing deep bedrock investigation activities prior to sampling and this is the first time FPC-2A has been sampled since 2012. Both arsenic and manganese are sensitive to reducing conditions which may result in the mobilization of naturally occurring arsenic and manganese present in overburden and bedrock groundwater. This mobilization can have an effect on concentrations in groundwater.AE-1A, AE-3A, and FPC-2A are overburden wells screened in glacial till located to the southeast (AE-1A), south (FPC-2A), and north (AE-3A) of the landfill. MW-6, AE-1B, and FPC-9B are located to the south (MW-6), southeast (AE-1B), and northeast (FPC-9B) of the landfill. Concentrations of arsenic and manganese decrease as one moves to the north and east away from the landfill. Bedrock wells reported slightly higher concentrations than adjacent glacial till wells.

Chromium was reported above the USEPA CL (0.05 mg/L) but below the NHDES AGQS (0.1 mg/L) in one OU-2 well (MW-20D2) during the Spring 2020 sampling event at a concentration of 0.085 mg/L. This was the first event that MW-20D2 was analyzed for chromium with metals sampled annually from OU-1/OU-2 monitoring wells. The next event scheduled for metals analysis is Spring 2021.





All OU-1 and OU-2 monitoring wells were analyzed for 1,4-dioxane during the Spring 2020 sampling event. A total of eight OU-1 wells and 18 OU-2 wells had detections of 1,4-dioxane at a concentration above the AGQS of 0.32 micrograms per liter (ug/L) while six OU-1 wells and 12 OU-2 wells had detections above the CL of 3 ug/L. Results were similar for exceedances of the AGQS and CL reported for Fall 2019. Wells with reported concentrations of 1,4-dioxane above the CL/AGQS are all located within the Groundwater Management Zone (GMZ).

Volatile Organic Compounds (VOCs) were not detected at concentrations above the CL or AGQS in wells sampled, with the exception of tert-butyl alcohol (AGQS of 40 ug/L) at OU-1 wells MW-5D (55 ug/L) and MW-8 (46 ug/L). These results are consistent with historical data.

On October 1, 2019, the AGQS for PFAS compounds perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) were lowered from their previous level of 70 nanograms per liter (ng/L) each to 12 ng/L and 15 ng/L, respectively. New AGQSs were established for perfluorononanoic acid (PFNA) at 11 ng/L and perfluorohexanesulfonic acid (PFHxS) at 18 ng/L. These lower standards were stayed by a court ruling on December 31, 2019, but were reinstated in September 2020 after the preliminary injunction was vacated.

Concentrations of PFOA within OU-1 ranged from 2.76 J nanograms per liter (ng/L) at OP-5 to 914 ng/L at MW-10. PFOA concentrations above the HA (70 ng/L) were detected in 8 of the 11 OU-1 wells sampled. Concentrations of PFOA within OU-2 ranged from non-detect (ND) to 766 ng/L at AE-2B and were reported above the HA in 8 of 38 wells sampled. The 16 wells reporting exceedances of the HA for PFOA are all located within the GMZ. One additional OU-1 well and 5 additional OU-2 wells exceeded the lowered AGQS for PFOA (12 ng/L).

Concentrations of PFOS within OU-1 ranged from ND at OP-5 to 819 ng/L at MW-10. PFOS was reported above the HA (70 ng/L) in 9 of the 11 OU-1 wells sampled. Concentrations of PFOS in OU-2 wells ranged from ND to 445 ng/L at AE-2B and were reported above the HA in 5 of 38 wells sampled. Wells with reported exceedances of the HA for PFOS are all located within the GMZ. Two additional OU-1 wells and 4 additional OU-2 wells exceeded the AGQS for PFOS (15 ng/L).

The combined concentrations of PFOA and PFOS exceeded the HA (70 ng/L) in 8 of 11 OU-1 wells sampled and 9 of 38 OU-2 wells sampled. Wells with reported exceedances of the HA for PFOA/PFOS combined are all located within the GMZ. There is no AGQS for combined concentrations of PFOA and PFOS.

Concentrations of PFNA within OU-1 ranged from ND at four wells to 392 ng/L at MW-10. PFNA was reported above the AGQS (11 ng/L) in 6 of 11 wells sampled. Concentrations of PFNA in OU-2 ranged from ND at 27 wells to 142 ng/L at AE-2A. Exceedances of the AGQS were detected in 7 of 38 OU-2 wells.

Concentrations of PFHxS within OU-1 ranged from ND at two wells to 98.5 ng/L at MW-8. PFHxS was reported above the AGQS (18 ng/L) in 5 of 11 OU-1 wells. Concentrations of PFHxS in OU-





2 ranged from ND at 16 wells to 89.4 ng/L at AE-2B and exceeded the AGQS in 7 of 38 OU-2 wells.

Although concentrations in some wells were slightly above previously reported concentrations, results are relatively consistent with those reported in the Fall of 2019. Trend analysis will be completed following receipt of Fall 2020 data and included with the 2020 Annual Water Quality Report. It should be noted that the Spring 2020 sampling event was only the second event where the analysis for an expanded list of PFAS compounds was completed. The first event was completed in Fall 2019.

Private Water Supply Wells

A total of 22 private water supply wells were sampled during the Spring event. **Table 4** provides a summary of analytical results. 1,4-dioxane was not detected above the NHDES AGQS of 0.32 ug/L in any residential well sampled. Historically, 339 Breakfast Hill Road (339 BHR) and R-3 (368 Breakfast Hill Road) had low levels (< 0.6 ug/L) of 1,4-dioxane, above the NHDES AGQS. However, 1,4-dioxane was detected at a concentration of 0.26 and 0.21 ug/L (original and duplicate samples) at R-3 and 0.28 ug/L at 339 BHR during this sampling event, all below the NHDES AGQS.

Concentrations of PFOA ranged from ND to 16.3 ng/L (339 BHR). Only one residential well (339 BHR) was above the AGQS of 12 ng/L; however, this result was within the historical range for PFOA at this location. PFOS concentrations ranged from ND to 6.17 ng/L (463 BHR), all below the AGQS of 15 ng/L. PFOA/PFOS combined concentrations ranged from ND to 17.31 J ng/L (339 BHR) and were consistent with past events. PFOA, PFOS, and PFOA/PFOS combined concentrations were not reported above the Lifetime HA (70 ng/L) in any of the residential wells sampled. Concentrations of PFOS, PFNA, and PFHxS did not exceed their respective AGQS in any residential wells sampled during this sampling event.

Surface Water Sampling

A total of eight surface water locations were sampled during the Spring 2020 event (**Figure 1**). **Table 5** provides a summary of analytical results.

Copper was reported above the chronic and acute standards (0.0023 and 0.0029 mg/L, respectively) at SW-4 with a concentration of 0.013 mg/L. This was a first-time exceedance for copper at SW-4 since sampling began in April 2017: however, copper has previously been reported at concentrations above the standard at other surface water locations monitored at the Site (e.g., SW-5). Iron concentrations were reported above the chronic standard (1 mg/L) at two locations (SW-5 and SW-BB1) and are consistent with historical results. Aluminum was reported above the chronic standard (0.087 mg/L) but below the acute standard (0.75 mg/L) in one sample (SW-LR) at a concentration of 0.15 mg/L. This is consistent with historical concentrations at SW-LR.

1,4-dioxane was reported at concentrations ranging from ND to 1.8 ug/L (SW-5 Dup), consistent with past results. 1,4-dioxane does not have a chronic or acute standard.





PFOA concentrations ranged from 13.6 (SW-LR) to 719 ng/L (SW-5 Dup). PFOS concentrations ranged from 3.45 J (SW-LR) to 1,080 ng/L (SW-103). The combination of PFOA and PFOS was reported in surface water samples at concentrations ranging from 17.05 J ng/L (SW-LR) to 1,779 ng/L (SW-5 Dup) during the Spring 2020 sampling event. These results are consistent with past events.

None of the detected concentrations of PFOS, PFOA, or PFBS in any surface water sample exceeded the mid-range child or adult recreator screening level or the adult maximum exposure screening level. No surface water location results were above the lowest screening level for PFOA – the child recreator maximum exposure scenario (120 effective days). Results for two surface water sampling locations, SW-5 and SW-103, located near the landfill, exceeded the lowest screening level – the child recreator maximum exposure scenario (120 effective days) for PFOS. Concentrations at the other six surface water sampling locations were below the child recreator maximum exposure scenario (120 effective days) for PFOS.

Sediment Sampling

Sediment samples were collected from a total of seven locations as shown on **Figure 1. Table 6** provides a summary of analytical results.

Six parameters (total arsenic, total chromium, total copper, total lead, total mercury, and total nickel) in one or more sediment samples were reported at concentrations above their respective National Oceanic and Atmospheric Administration (NOAA) Screening Quick Reference Tables (SQuiRT) Threshold Effect Concentration (TEC). SQuiRT TECs are screening concentrations and were designed to help evaluate potential risks from contaminated water, sediment, or soil. It should be noted that they do not represent official NOAA policy and are not intended to be used in place of regulatory standards or CLs. Concentrations of total arsenic were reported above their associated SQuiRT TECs at locations SED-5, SED-LR, SED-BB1, and SED-BB2. Total chromium was reported above its respective TEC at location SED-5 with total mercury also reported above their respective TEC at location SED-5 with total mercury also reported above the associated TEC at SED-4. Concentrations of total lead was reported above the associated TEC at locations SED-5, SED-LR, Total nickel was reported above the associated TEC at locations SED-5, SED-LR. Total nickel was reported above the associated TEC at locations SED-5, SED-LR. Total nickel was reported above the associated TEC at locations (SED-5, SED-LR, and SED-BB1).

1,4-dioxane was not reported in any of the sediment samples collected.

The combination of PFOA and PFOS was reported in sediment samples at concentrations ranging from ND to 0.10646 milligrams per kilogram (mg/kg) (SED-5). Neither 1,4-dioxane nor PFOA/PFOS have an applicable TEC. None of the PFOA, PFOS, or PFBS concentrations in sediment exceeded the maximum or mid-range regional screening levels (RSLs) during this sampling event, consistent with past events.

Seep Sampling (L-1)

A summary of analytical results from the regular and duplicate samples collected for the seep sampling location L-1 is provided as **Table 7**. As shown, one parameter (iron) was reported above the NHDES Chronic/Acute Surface Water Standard.





1,4-dioxane was reported at concentrations of 8.8 J and 9.6 ug/L (original and duplicate sample, respectively), below the historical average for this location since analysis for 1,4-dioxane began in August 2009. 1,4-dioxane does not have a chronic or acute standard. Concentrations of other parameters analyzed at this location were consistently below historic concentrations.

PFOA and PFOS were analyzed at this location. Results include both the original and a duplicate sample. PFOA was reported at 501 J and 456 ng/L, and PFOS was reported at concentrations of 239 J and 204 ng/L. The combined concentrations for PFOA/PFOS were 740 J and 660 ng/L. Combined PFOA and PFOS concentrations at L-1 were slightly above the concentrations reported in 2019.

SUMMARY

Based on the results of the Spring 2020 sampling, the following findings were made:

- 1,4-dioxane was not detected above the NHDES AGQS in any residential well sampled during this sampling event. Historically it has been detected above the AGQS in two wells (339 BHR and R-3).
- PFOA was detected above the NHDES AGQS in one residential well (339BHR).
- Combined PFOA and PFOS detections did not exceed the USEPA HA of 70 ng/L in the residential water supply wells sampled. The maximum combined concentration in water supply wells was 17.31 J ng/L at 339 BHR, consistent with past results.
- Groundwater exceedances for arsenic, manganese, 1,4-dioxane, PFOA, PFOS, and PFOA/PFOS combined were confined to wells within the GMZ.
- One parameter (iron) at two surface water locations (SW-5 and SW-BB1) was reported above the NHDES Chronic surface water standard. Aluminum was reported above the chronic standard in one sample (SW-LR). Copper was reported above the NHDES chronic and acute surface water standard in one sample (SW-4).
- PFOA was detected below the applicable USEPA surface water RSLs at all eight surface water sampling locations. PFOS was detected at concentrations below USEPA surface water RSLs at six of eight surface water sampling locations. PFOS was detected above the child recreator maximum exposure scenario (120 effective days) at two surface water locations (SW-5 and SW-103), consistent with past results.
- Six parameters (total arsenic, total chromium, total copper, total lead, total mercury, and total nickel) in one or more sediment samples were reported above their associated NOAA SQuiRT TEC Standard, which is consistent with historical results.
- None of the PFOA, PFOS or PFBS concentrations in sediment exceeded the maximum or mid-range screening levels established by USEPA/NHDES.
- Iron was reported above the chronic NHDES surface water standard for the L-1 seep sampling location; however, it was reported below the historical high (1,100,000 ug/L, August 2004).
- PFOA/PFOS for seep location (L-1) were detected at combined concentrations of 740 and 660 ng/L (original and duplicate sample), below the historical high reported in April 2017.







If you have any questions concerning this letter, please contact either of the undersigned at (207) 795-6009.

Sincerely, CES, Inc.

Suzanne Yerina, P.G. Project Geologist

SLY/CFB

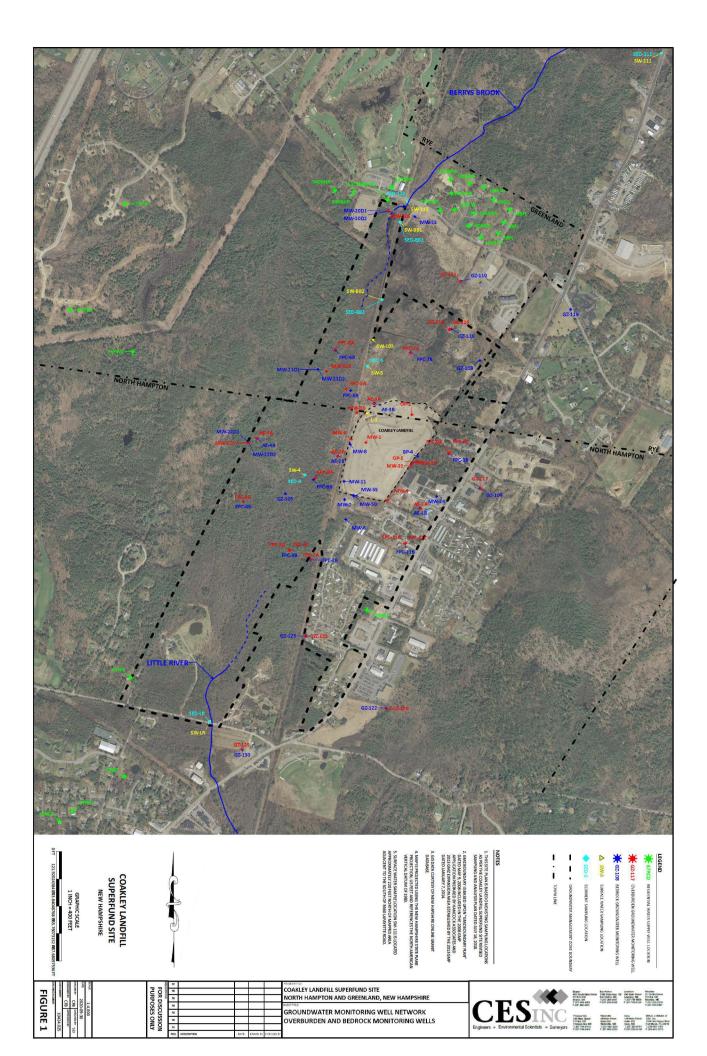
CL 54 Christopher Buckman, P.G.

Senior Project Geologist





FIGURE





TABLES

Draft Table 1.1 Summary of Groundwater Elevation Data: April 2001 through May 2020 2020 Semi-Annual Summary Report Coakley Landfull Superfund Site Greenland and North Hampton, New Hampshire

MONITORING	Ref. Pt Elev.	New Ref Pt.	Screened Interval	Apr-01	Aug-01	Jun-02	Aug-02	Aug-03	Aug-04	Aug-05	Aug-06	Nov-07	Aug-08	Aug-09	Aug-10	Aug-11	Aug-12	Aug-13	Sep-14	Sep-15	May-16	Apr-17	Sep-17	Apr-18	May-19	Sep-19	May-20
WELL		2018-2019 survey		GW. EL.	GW. EL.	GW.EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.	GW. EL.
IDENTIFICATION	(FT. NGVD)	(FT. NGVD)	(FT. from measuring poin	it FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.
Operable Unit 1				-																						_	1
BP-4	111.70	107.40	36.4 - 101.8	99.37	96.29	97.27	96.26	96.51	96.89	96.34	97.71	95.72	97.52	99.00	96.55	96.75	96.48	97.39	96.15	96.35	97.35		97.07	98.85	98.28	96.05	94.27
MW-2	94.54	94.54	11.7 - 21.7	NM	86.75	89.00	NM	NM	NM	NM	NM	88.61	88.95	88.40	87.88	88.79	86.85	87.69	85.69	87.14	88.19	89.27	88.20	89.07	89.13	82.37	88.75
MW-4	129.12	129.12	30.1 - 40.1	100.33	96.88	98.01	96.99	97.07	97.35	96.71	98.12	96.17	97.98	98.43	96.93	97.20	96.90	97.75	96.49	96.72	97.71	99.65	97.34	99.46	98.76	96.16	99.01
MW-5S (Note 2)	101.96	101.96	50.7-80.7	92.24	89.33	91.46	88.78	88.71	90.89	88.54	91.42	89.54	91.47	90.99	89.70	89.89	89.02	90.06	88.33	88.76	90.20	91.31	89.79	91.25	91.08	87.90	91.09
MW-5D (Note 2)	99.72	99.72	135.6-165.6	91.72	88.60	90.60	88.12	89.22	89.96	88.02	89.82	88.61	90.42	90.35	88.96	89.11	88.25	89.52	87.70	87.93	89.62	90.91	89.12	90.81	90.60	87.25	90.70
MW-6	101.15	101.15	27.2 - 186.2	93.23	89.79	92.50	89.16	90.09	92.13	89.01	92.46	90.52	92.42	91.93	90.58	90.73	89.66	90.40	88.78	89.71	90.70	91.86	90.57	91.81	92.62	88.37	91.49
MW-8 (Note 2)	85.02	85.02	47.6-67.6	78.33	76.02	77.93	75.64	76.32	77.58	75.66	77.90	76.61	78.20	77.61	76.35	77.26	75.70	77.42	75.25	75.21	77.11	78.27	77.16	78.22	78.21	75.03	78.19
MW-9	82.62	81.70	8.0 - 13.0	76.88	74.10	75.74	73.81	73.28	76.13	73.94	75.71	75.80	76.88	75.35	74.64	77.15	74.15	75.22	73.84	74.15	75.15	77.28	75.87	77.23	77.25	72.60	75.84
MW-10	80.60	79.10	7.7 - 12.7	75.22	73.93	74.91	73.45	74.20	74.93	73.99	74.71	74.95	74.86	74.50	74.21	75.46	74.22	74.50	74.05	74.80	74.62	75.10	74.77	75.15	75.12	72.27	73.60
MW-11	92.70	92.70	33.8 - 53.8	83.09	80.59	82.67	80.11	81.24	82.26	79.85	82.89	81.07	82.99	82.58	81.08	81.54	80.36	82.10	79.46	79.89	82.15	83.14	81.82	83.01	83.04	79.21	82.82
OP-2 (Note 2)	100.00	100.00	9-14	87.25	92.00	93.49	91.85	92.26	93.05	91.94	93.80	92.28	94.04	93.98	92.50	93.17	92.52	77.42	92.28	92.53	93.84	95.34	93.67	95.03	94.89	92.30	95.00
OP-5	112.68	108.40	15.8 - 25.8	107.29	97.54	97.72	96.82	96.98	97.31	96.78	98.03	96.04	97.81	98.28	96.91	97.22	96.86	97.72	96.48	96.67	97.61	99.45	97.33	99.21	98.57	96.42	94.53
Operable Unit 2	107.00	407.00	67.07	00.07	00.5	07.54	00.55	00.05	07.05	07.05	00.46	05.00	07.7	00.46	00.7/	07.00	00.00	07.55	00.05	00.55	07.46	00.00	07.04	00.0/	00.46	00.05	00.70
AE-1A	127.00	127.00	57-67	99.67	96.54	97.54	96.53	96.67	97.05	97.35	98.10	95.89	97.74	98.19	96.74	97.00	96.63	97.53	96.32	96.55	97.48	99.39	97.31	99.04	98.48	96.28	98.73
AE-1B	126.80	126.80	77.3-87.3	99.65	96.43	97.51	96.51	96.65	97.09	96.49	98.09	95.87	97.73	97.98	96.55	96.93	96.61	97.51	96.30	96.53	96.45	99.38	97.30	99.33	98.47	96.27	98.72
AE-2A (Note 5)	79.60	79.60	12.6 - 22.6	75.69	73.58	75.66	72.98	73.75	75.19	73.18	75.70	74.69	75.81	75.29	73.76	75.00	73.52	74.70	72.92	73.32	75.29	75.89	74.75	75.77	75.83	72.70	75.82
AE-2B (Note 5)	79.50	79.50	42.5 - 52.5	75.78	73.49	75.65	73.16	74.42	75.33	73.60	75.61	74.22	75.94	76.02	74.35	74.26	74.01	75.30	73.49	73.56	75.65	76.46	75.31	76.30	76.40	73.13	76.36
AE-3A (Note 6)	86.10	85.00	?? - 20	77.80	77.05	77.70	76.86	76.30	77.90	77.14	78.02	77.90	77.98	78.68	77.30	78.30	77.04	77.50	76.75	77.03	77.54	77.85	77.42	77.83	77.93	75.45	76.67
AE-3B	87.30	86.20	31.4 - 43.4	78.64	78.30	78.49	77.47	77.90	78.58	76.86	78.66	78.47	78.50	78.32	77.76	78.84	77.50	77.84	77.22	77.45	81.09	78.68	77.89	78.57	78.66	75.87	77.35
AE-4A	77.20	76.45	7.3 - 17.3	NA	NA	NA	NA	NA	73.47	70.75	73.75	72.91	73.10	73.20	71.49	73.10	70.80	72.29	70.42	71.20	72.99	73.74	72.64	73.68	73.68	69.43	72.80
AE-4B	77.50	76.71	36.7 - 46.7	NA	NA	NA	NA	NA	73.42	70.51	73.30	72.28	73.61	73.01	71.10	72.18	70.58	72.12	70.26	70.55	72.92	73.83	72.01	73.89	73.89	69.33	72.92
FPC-2A	78.40	78.40	8.8 - 18.8	NM	NM	76.66	78.40	76.24	76.31	75.66	76.32	75.90	76.30	76.12	75.62	75.98	75.41	75.89	75.02	75.36	75.39	75.86	75.50	75.85	75.68	74.67	75.64
FPC-2B	77.98	77.98	25.4-40.4	77.78	NM	77.38	76.37	76.81	77.28	76.45	77.30	76.90	77.46	77.26	76.45	74.94	76.51	75.22	76.24	75.18	77.00	77.45	76.97	77.25	77.42	76.11	77.28
FPC-3A	73.17	73.17	65.6-75.6	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	71.02	70.58	71.06	70.51	68.95	71.02
FPC-3B	72.22	72.22	82.2 - 97.2	NM	NM	NM	NM	NM	NM NM	NM	NM	NM	NM	NM	NM	70.42	70.23	70.42	70.47	68.93	70.55						
FPC-3C	72.36	72.36	20.9 - 30.9	NM	NM	NM	NM	NM		NM	NM	NM	NM	NM	NM	71.03	70.61	71.10	71.13	68.95	71.04						
FPC-4B	75.83	75.83	20.8-35.8	NM	NM	NM 70.40	NM	69.96 73.10	71.58	68.21	71.63	70.95	71.81	71.24	69.80	71.01 72.91	69.51	70.43	68.98	69.76	71.15	71.95	70.76	71.91	71.90	68.81	71.71
FPC-5A	74.30	73.80	62.8-72.8	74.14	73.02	73.10	73.03		74.30	72.18	73.50	73.50	73.73	73.37	72.73	74.33	72.05	72.11	NM	NM	NM	NM 74.35	NM	NM 74.11	72.48	70.88	71.70
FPC-5B FPC-6A (Note 3)	79.20	79.20	98.1-113.1 7.3-8.3	74.70	73.43 NM	70.96	73.15 NM	74.23 NM	75.03	73.19	74.66	74.50	74.85	74.46	73.74	74.33	72.95	73.64	72.90	73.39	74.05	74.35	73.85	74.11	74.39	71.70	73.35 72.57
FPC-6B	79.20	76.11	16-31	73.14	70.88	72.05	70.30	71.94	70.32	68.37		70.19	72.93	72.35	71.26	72.35	71.06	71.60	70.12	71.24	72.65	73.18	72.17	73.19	73.21	69.58	72.14
FPC-7A	82.08	87.60	19.1-24.1	73.14 NM	70.88 NM	72.33 NM	70.30 NM	80.12	80.99	80.03	70.47	81.30	81.49	81.16	80.39	81.10	80.20	80.73	79.78	80.46	81.17	81.44	80.85	81.56	81.66	79.46	86.95
FPC-7A FPC-7B	82.33	85.3	32.4-47.4	NM	NM	NM	NM	79.82	80.72	79.69	81.02	79.43	81.20	80.87	80.14	80.82	79.95	80.42	79.78	80.40	80.94	81.42	80.61	81.40	81.42	79.46	84.28
FPC-76 FPC-8A	73.80	73.80	25.1 - 35.1	73.20	71.06	72.99	70.36	79.62	72.86	79.69	73.01	79.43	73.09	72.73	71.62	72.46	79.95	72.60	79.54	71.32	72.75	73.17	72.30	72.90	73.19	79.26	73.13
FPC-8B	73.60	73.60	42.9-57.9	72.99	70.93	72.79	70.07	71.20	72.69	70.58	72.83	72.03	72.00	72.68	71.10	72.40	71.16	72.40	70.61	71.19	72.59	72.96	72.15	72.78	73.03	70.32	72.95
FPC-9A	117.57	114.10	60.4 - 70.4	99.22	96.25	97.05	96.02	96.27	96.40	95.83	97.59	95.48	97.44	97.90	96.37	96.58	96.18	97.23	95.98	96.18	97.20	99.10	97.00	98.70	98.26	95.92	95.01
FPC-9B	117.87	116.00	74.5 - 89.5	99.28	96.15	97.08	96.11	96.37	NM	NM	NM	95.14	97.41	97.93	96.42	96.96	96.21	97.22	96.03	96.18	97.18	99.13	97.02	98.71	98.31	95.92	96.55
FPC-9B FPC-9C	117.07	114.60	17.4 - 27.4	99.28	90.15 NM	97.00	90.11 NM	96.37	NM	NM	NM	95.14	97.41	97.93	96.42	96.65	96.21	97.69	96.03	96.84	97.18	99.13	97.02	96.71	98.57	95.92	95.55
FPC-11A	117.95	117.95	46.6 - 51.6	99.02 NM	NM	97.52 NM	NM	96.65	97.01	96.51	97.71	95.81	97.58	97.95	96.50	96.68	96.38	97.69	96.09	96.36	97.38	99.25	97.08	98.79	98.31	NM	98.47
FPC-11B	117.90	117.90	57.5 - 72.5	NM	NM	NM	NM	96.70	96.90	96.34	97.69	95.54	97.57	97.89	96.56	97.10	96.37	97.30	96.07	96.29	97.19	99.13	97.04	98.78	98.29	NM	98.40
FPC-11C (Note 4)	118.10	117.86	17.7 - 32.7	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	96.58	97.44	96.23	96.82	97.39	99.38	97.35	99.08	98.45	NM	NM
GZ-105	73.60	73.60	37.8 - 52.8	71.02	69.31	70.83	68.45	69.71	71.09	69.28	70.91	70.68	71.05	70.78	69.83	70.71	69.47	70.70	68.98	70.03	70.69	71.08	70.58	71.06	71.08	68.90	71.00
GZ-103	119.36	119.36	105-254	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	97.05	98.61	98.35	95.86	98.41
GZ-109 GZ-117	118.10	118.10	31.8-41.8	NM	NM NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	96.13	97.20	96.85	95.00	96.90
GZ-117 GZ-123	87.49	86.6	12.9 - 17.9	NM	NM	NM	NM	NM	NM	NM	NM	76.91	77.90	78.28	77.05	77.42	77.01	77.24	76.76	77.36	77.61	79.53	77.54	79.23	78.77	75.89	78.08
GZ-125	88.77	87.99	60.3-202.3	NM	NM NM	NM	NM	NM	NM	NM	NM	80.35	81.73	81.87	80.36	80.32	80.07	80.79	79.76	80.03	80.89	82.93	80.97	82.57	80.62	75.89	81.35
MW-20S	75.1	75.09	7.5-12.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA NA	02.93 NA	NA NA	NA	71.49	68.46	71.17
MW-205	73.6	73.57	8.4-16.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	72.25	69.67	72.10
MW-22S	76.5	76.51	8.25-16.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73.66	69.80	73.58
MW-20D1	75.51	75.51	67.7-77.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	67.95	71.02
MW-20D2	75.49	75.49	224.7-236-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	67.80	70.56
MW-21D1	78.66	78.66	24.6-34.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	69.70	72.48
MW-21D2	78.71	78.71	301.7-311.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	69.85	73.28
MW-22D1	76.75	76.75	76.8-86.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	69.36	72.96
MW-22D1 MW-22D2	76.78	76.75	211.8-221.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	69.30	72.58
WINT-LEUZ	10.70	10.10	211.0-221.0	11/1	101	14/1	144		1.04		144	14/1		144	1.01	14/1	144	1975	1.64	144	101			in A	144	00.20	12.00

NOTES: 1. GW.EL. indicates groundwater elevation and FT. indicates measurements were in feet.

2. Summit determined that Reference Point Elevations for MW-5S, MW-5D, MW-8 and OP-2 were incorrect for data collected since 1999. Correct measuring point elevations were identified on an as built survey plan prepared by Richard D. Bartlett and Associates, Inc. dated September 1998. Surveyed "top of cap" elevations for MW-55, MW-5D and MW-8 were adjusted to top of PVC using field measurements (significant settling is not likely at these wells as they are 2-inch diameter wells instal in 6 inch diameter boreholes through 6-inch diameter metal casings. A PVC casing elevation was listed for OP-2. Groundwater elevation data since April 1999 adjustments are as follows: MW-55 (+3.54 ft), MW-5D (+1.33 ft),

instal in 6 inch diamter boreholes through 6-inch diameter metal casings. A PVC casing elevation was listed for OP-2. Groundwater elevation data since April 1999 adjustments are as follows: MV-S5 (4:3.54 h), MV-SD (4:3.37 h), MV-8 (6:2.87 h) and OP-2 (4:1.51 ft). 3. A replacement well (point) for FPC-6A was installed in August 2003, due to insufficient water for sampling for extended periods of time. However, the reference point elevation was not updated at that time. Therefore, groundwater elevations presented in previous monitoring reports for PFC-6A since August 2003 were incorrect. Summit surveyed the FPC-6A reference point elevation in December 2013 relative to the FPC-6B reference point elevation in December 2013 relative to the FPC-6B screened interval was updated based on well depth (93 ftext), stickup (5.54 ftest), and an assumed 1 foot screen interval. 4. FPC-11C: Well casing was modified during read box repairs at FPC-11/M2C on 1/10/2014 (Summit Fervioramental Consultants). Top of PVC casing was resurveyed relative to FPC-11/A/B measuring points on 2/27/2014.

Proc Truc: Wei casing was monitod ouring foad box repairs at PPC-TIAVE of which is the construction of the casing was resurveyed relative to PPC-TIAVE measuring points or Original measuring point eventation as the construction of the casing was resurveyed relative to PPC-TIAVE measuring points or Original measuring point eventation as the construction of the casing was resurveyed relative to PPC-TIAVE measuring point eventation as the construction of the casing was resurveyed relative to PPC-TIAVE measuring points or Original measuring point eventation as the casing was resurveyed relative to PPC-TIAVE measuring points or Original measurements of stickup added to total depth from boring log are consistent with total depth from toor or PVC casing measured in August 2012.
 AE-3A well screen interval not specifically listed on boring log (wel construction log for AE-3A is the same as AE-3B). Assume 10 foot screen was installed to bottom of borehole (0.3 feet below top of bedrock).

Draft Table 1.2 Vertical Hydraulic Gradients - Select Well Couplets: Spring 2020 2020 Semi-Annual Summary Report Coakley Landfull Superfund Site Greenland and North Hampton, New Hampshire

Monitoring Well	Geologic Unit	Ground Elevation	Screened Depth (ft bgs)	Bottom of Screen Elevation	GW Elevation January 2019	GW Elevation May 2019	GW Elevation July 2019	GW Elevation September 2019	GW Elevation May 2020	Vertical Gradient January 2019	Vertical Gradient May 2019	Vertical Gradient July 2019	Vertical Gradient September 2019	Vertical Gradient May 2020
		Liovation	(10 590)	Concern Elevration	currany 2010	intry zoro	oury zoro	Coptombol 2010	indy 2020	candary 2010	intry 2010	ouly 2010	Coptomber 2010	may 2020
MW-5S	SBR	99.30	48-78	21.30	91.15	91.08	90.21	87.90	91.09	0.007	0.006	0.007	0.008	0.005
MW-5D	DBR	97.58	139-159	-61.42	91.72	90.60	89.64	87.25	90.70	0.007	0.000	0.007	0.000	0.000
AE-1A	Till	125.00	55-65	60.00	98.60	98.48	97.73	96.28	98.73	0.000	0.001	0.001	0.001	0.001
AE-1B	SBR	125.00	75-85	40.00	98.59	98.47	97.72	96.27	98.72	0.000	0.001	0.001	0.001	0.001
AE-2A	Till	76.97	10-20	56.97	75.88	75.83	75.18	72.70	75.82	0.019	0.019	0.014	0.014	0.018
AE-2B	SBR	77.04	40-50	27.04	76.44	76.40	75.60	73.13	76.36		66666			
AE-3A	Till	82.80	7.8-17.8	65.00	76.87	76.83	76.37	75.45	76.67	0.032	0.033	0.026	0.019	0.031
AE-3B	SBR	82.80	28-40	42.80 59.20	77.57 72.94	77.56	76.95 72.34	75.87 69.43	77.35	i de la companya de l				
AE-4A AE-4B	Outwash SBR	74.20	5-15 34-44	30.01	73.11	73.10	72.34	69.33	72.80 72.92	0.006	0.006	0.002	0.003	0.004
FPC-2A	Outwash	75.60	6-16	59.60	Frozen	75.68	75.39	74.67	75.64					
FPC-2A	SBR	75.40	22.8-37.8	37.60	Frozen	77.42	77.06	76.11	77.28	NC	0.079	0.076	0.065	0.075
FPC-3A	Till	70.57	63-73	-2.43	Frozen	70.51	70.72	68.95	71.02	100000		21222		(analasa)
FPC-3B	SBR	70.57	80.5-95.5	-24.93	70.50	70.47	70.25	68.93	70.55	NC	0.002	0.021	0.001	0.021
FPC-3A	Till	70.57	63-73	-2.43	Frozen	70.51	70.72	68.95	71.02	NC	0.014	0.001	0.000	0.000
FPC-3C	Outwash	69.68	18.5-28.5	41.18	Frozen	71.13	70.77	68.95	71.04	NC	0.014	0.001	0.000	0.000
FPC-5A	Till	73.80	60-70	2.06				70.88	71.7	NC	NC	NC	0.021	0.042
FPC-5B	SBR	74.00	95.3-110.3	-37.68				71.70	73.35	NC	NC	NO	0.021	0.042
FPC-6A	Till	73.66	1.8-2.8	70.86	72.79	72.75	72.03	72.14	72.57	0.020	0.021	0.016	0.099	0.017
FPC-6B	SBR	73.62	13.5-28.5	45.12	72.28	72.22	71.63	69.58	72.14			0.010		1707.2.51
FPC-7A	Till	85.52	17-22	63.52 37.87	Frozen	81.66	81.05	79.46	86.95	NC	0.009	0.009	0.008	0.104
FPC-7B	SBR	82.87 71.70	30-45	37.87	Frozen	81.42 73.19	80.81 72.64	79.26 70.44	84.28 73.13		(activation)		Contraction of the Contraction o	- representation
FPC-8A FPC-8B	Till SBR	71.70	23-33 40.7-55.7	15.66	Frozen	73.03	72.52	70.44	73.13	NC	0.007	0.005	0.005	0.008
FPC-9A	Till	111.73	58-68	43.73	98.32	98.26	97.41	95.92	95.01					
FPC-9B	SBR	113.53	72-87	26.53	98.34	98.31	97.41	95.92	96.55	0.001	0.003	0.000	0.000	0.090
FPC-9C	Outwash	112.22	15-25	87.22	98.66	98.57	97.87	96.51	95.55	an a	Allow A local 21	17 Million and		VINAMIN
FPC-9A	Till	111.73	58-68	43.73	98.32	98.26	97.41	95.92	95.01	0.008	0.007	0.011	0.014	0.012
FPC-11A	Till	118.36	47-52	66.36	Frozen	98.31	97.50	95.88	98.47	0.00	And a factor of	12 ANUM	0.01/14	W. Messe
FPC-11B	SBR	118.45	58-73	45.45	Frozen	98.29	97.46	95.93	98.40	NC	0.001	0.002	0.002	0.003
FPC-11A	Till	118.36	47-52	66.36	Frozen	98.31	97.50	95.88	98.47	NO	0.005	0.000	NO	NC
FPC-11C	Outwash	118.18	18-33	85.18	Frozen	98.21	97.55	Paved Over	Paved Over	NC	0.005	0.003	NC	NC
GZ-109	Open BR	117.74	103-252	-134.26	98.46	98.35	97.40	95.86	98.41	0.007	0.007	0.005	0.004	0.007
GZ-117	Till	118.10	30.5-40.5	77.60	96.89	96.85	96.35	95.06	96.90	0.007	0.007	0.000	0.004	0.007
GZ-123	Outwash	85.21	11.5-16.5	68.71	78.52	77.88	76.90	75.89	78.08	0.007	0.011	0.014	0.016	0.018
GZ-125	Open BR	85.72	57-200	-114.28	79.88	79.84	79.39	78.87	81.35		5755			(555,555)
MW-20S	Outwash	72.59	5-10	62.59				68.46	71.17	NC	NC	NC	0.008	0.002
MW-20D1	DBR	72.79	65-75	-2.21 -2.21				67.95	71.02					
MW-20D1 MW-20D2	DBR DBR	72.79	65-75 224-234	-2.21				67.95 67.80	71.02	NC	NC	NC	0.001	0.003
MW-20D2 MW-21S	MSC	71.18	6-14	57,18				69.67	70.56					
MW-215 MW-21D1	DBR	71.10	20-30	44.06				69.70	72.10	NC	NC	NC	0.002	0.029
MW-21D1	DBR	74.06	20-30	44.06				69.70	72.48					and the second second
MW-21D2	DBR	74.06	297-307	-232.94				69.85	73.28	NC	NC	NC	0.001	0.003
MW-22S	Outwash	74.26	6-14	60.26				69.80	73.58					
MW-22D1	DBR	74.94	75-85	-0.06				69.36	72.96	NC	NC	NC	0.007	0.010
MW-22D1	DBR	74.94	75-85	-0.06				69.36	72.96	NO	NC	NC	0.001	0.003
MW-22D2	DBR	74.94	210-220	-145.06				69.20	72.58	NC	NC	NG	0.001	0.003

Notes 1 Positive vertical gradient indicates a downward flow direction

1 Positive vertical gradient indicates a downward flow direction FT BGS = Feet Below Ground Surface Frozen = Unable to measure due to frozen well NC = Not Calculated Open BR = Open Borroke BBR = Shallow Bedrock DBR = Deep Bedrock MSC = Marine silt and clay. = Neutral vertical gradient (0.1 ft difference or less in groundwater elevations) = Upward Vertical Gradient = Downward vertical gradient = Data not collected

Draft Table 2 - Well Depth Comparison: Spring 2020 2020 Semi-Annual Summary Report Coakley Landfull Superfund Site Greenland and North Hampton, New Hampshire

Well ID	Measuring Point Elevation (ft NGVD)	Adjusted Well Depths Based on Well Depth and Stickup (ft from	Screen Length (in feet)	(ft from M Po	d Interval leasuring int)	August 2012 Measured Well Depth from 2012 (in ft from	August 2015 Measured Well Depth (in ft from Measuring Point)	May 2020 Measured Well Depth (in ft from Measuring Point)	Well Depth Variance 2012 to 2020
		Measuring Point)		Upper	Lower	Measuring Point)			
Operating Uni	t 1 (OU-1) Wells								
BP-4	107.40	101.78	65.4	36.4	101.8	101.56	101.8	101.2	0.4
MW-2	94.54	21.74	10	11.7	21.7	NM	21.8	NM	NM
MW-4	129.12	40.12	10	30.1	40.1	39.22	39.2	39.0	0.2
MW-5D	99.72	165.64	20	145.6	165.6	161.32	161.7	161.2	0.1
MW-5S MW-6	101.96	80.66	30	50.7	80.7	83.02	83.5	83.1	-0.1
MW-8	101.15 85.02	186.15 67.59	159 20	27.2 47.6	186.2 67.6	171 67.51	170.9 67.6	170.9 67.3	0.1
MW-9	81.70	13.00	5	8.0	13.0	12.46	12.5	12.7	-0.2
MW-10	79.10	12.67	5	7.7	12.7	12.40	12.3	11.9	0.3
MW-11	92.70	53.80	20	33.8	53.8	54.85	54.7	54.6	0.3
OP-2	100.00	14.00	5	9.0	14.0	16.84	16.9	16.6	0.3
OP-5	112.68	25.84	10	15.8	25.8	25.78	25.7	25.5	0.3
Operating Uni	t 2 (OU-2) Wells								
AE-1A	127.00	67.00	10	57.0	67.0	66.15	66.1	65,9	0.3
AE-1B	126.80	87.30	10	77.3	87.3	87.69	87.7	87.4	0.3
AE-2A***	79.60	22.63	10	12.6	22.6	22.55	22.6	22.3	0.3
AE-2B***	79.50	52.46	10	42.5	52.5	52.8	52.8	52.5	0.3
AE-3A*	85.00	20.00	10*	10.0	20*	20.06	20.1	19.8	0.2
AE-3B	86.20	43.40	12	31.4	43.4	43.02	43.1	42.8	0.2
AE-4A	76.45	17.25	10	7.3	17.3	16.05	16.6	16.0	0.1
AE-4B	76.71	46.70	10	36.7	46.7	46.1	46.1	45.7	0.4
FPC-2A	78.40	18.80	10	8.8	18.8	18.81	18.8	18.5	0.3
FPC-2B	77.98	40.38	15	25.4	40.4	40.01	40.3	40.0	0.1
FPC-3A	73.17	73.00	10	63.0	73.0	NM	NM	69.4	3.7
FPC-3B	72.22	95.50	15	80.5	95.5	NM	NM	95.8	-0.3
FPC-3C	72.36	28.50	10	18.5	28.5	NM	NM	28.7	-0.2
FPC-4B	75.83	35.83	15	20.8	35.8	35.45	35.4	35.1	0.4
FPC-5A**	73.80	70.00	10	60.0	70.0	25.76**	Obstructed	60.0	10.0
FPC-5B FPC-6A	74.00	113.11	15	98.1	113.1	113.56	113.4 10.4	<u>114.2</u> 10.0	-0.6 0.0
FPC-6B	79.20 76.11	8.34 30.99	1 15	7.3	8.3 31.0	9.97 30.2	30.2	29.9	0.0
FPC-0B	87.60	24.08	5	19.1	24.1	23.95	24.0	29.9	0.3
FPC-7B	85.30	47.43	15	32.4	47.4	46.9	47.0	46.6	0.2
FPC-8A	73.80	35.10	10	25.1	35.1	33.87	33.9	33.5	0.0
FPC-8B	73.60	57.94	15	42.9	57.9	57.45	57.7	57.7	-0.2
FPC-9A	114.10	68.00	10	58.0	68.0	68.35	68.4	65.1	3.3
FPC-9B**	116.00	87.00	15	72.0	87.0	NM	89.5	89.0	-2.0
FPC-9C**	114.60	25.00	10	15.0	25.0	NM	27.7	NM	NM
FPC-11A	117.95	51.59	5	46.6	51.6	50.41	50.4	50.2	0.3
FPC-11B	117.90	72.45	15	57.5	72.5	70.7	71.3	71.0	-0.3
FPC-11C	117.86	32.68	15	17.7	32.7	32.12	31.8	NM	NM
GZ-105	73.60	52.76	15	37.8	52.8	51.99	52.1	51.7	0.3
GZ-109**	119.36	252.00	149	103.0	252.0	NM	NM	252.0	0.0
GZ-117**	118.10	40.50	10	30.5	40.5	NM	NM	40.0	0.5
GZ-123	86.6	17.89	5	12.9	17.9	17.58	17.4	NM	NM
GZ-125	87.99	202.27	142	60.3	202.3	192.36	201.3	NM	NM
MW-20S**	75.09	12.50	5	7.5	12.5	NM	NM	11.8	0.7
MW-20D1**	75.51	77.72	10	67.7	77.7	NM	NM	78.3	-0.5
MW-20D2**	75.49	236.70	10	226.7	236.7	NM	NM	236.7	0.0
MW-21S**	73.57	16.39	8	8.4	16.4	NM	NM	16.1	0.3
MW-21D1**	78.66	34.60	10	24.6	34.6	NM	NM	34.6	0.0
MW-21D2**	78.66	311.65	10	301.7	311.7	NM	NM	311.6	0.0
MW-22S**	76.51	16.25	8	8.3	16.3	NM	NM	16.1	0.1
MW-22D1**	76.75	86.81	10	76.8	86.8	NM	NM	86.8	0.0
MW-22D2**	76.78	221.84	10	211.8	221.8	NM	NM	221.8	0.0
MW-23	80.69	283.85	234	49.9	283.9	NM	NM	NM	NM
MW-24	118.7	144.25	62	82.3	144.3	NM	NM	NM	NM

TABLE NOTES

ft bgs = feet below ground surface 1.

2. ft NGVD = feet National Geodetic Vertical Datum

NM = Not Measured 3.

4.

Well depths relative to measuring point measured in August 2012 and listed in 2012 Annual Report (Provan and Lorber) AE-3A well screen interval not specifically listed on boring log (well construction log for AE-3A is the same as AE-3B). Assume 10 foot screen was installed to bottom of borehole (0.3 feet below top of bedrock). Well depth compared to orginal well depth

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2020 Semi-Annual Summary Report

Coakley Landfill Sup	perfund Site - Greenland and North	Hampton, New Hampshire
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COakley L	anann	Supe	Tunu			NIT 1 (OL		Thairi	pton,	TTETT	Turrip	Sime				
Sampling Point ID Monitored Zone (Unit	USEPA	NHDES	MW-41	MW-4-DUP1	MW-5D	MW-5S	MW-6	MW-81	MW-9	MW-10	MW-11	OP-2	OP-5	BP-4	# of Exc	eedances
Monitored Zone / Unit Date of Sample Collection	CL	AGQS	5/19/20	5/19/20	5/15/20	5/15/20	5/22/20	5/20/20	5/22/20	5/22/20	5/18/20	5/14/20	5/18/20	5/18/20	CL	AGQS
VOLATILE ORGANIC COMPOUNDS BY 8260C - (ug/L)																
1,2,4-Trimethylbenzene		330	N/A	N/A	10	10	10	10	N/A	N/A	10	N/A	N/A	N/A		0
1,2-Dichloropropane 1,4-Dichlorobenzene	5	5	N/A N/A	N/A N/A	10	10	10	1 U 1.6	N/A N/A	N/A N/A	1 U 1 U	N/A N/A	N/A N/A	N/A N/A	0	0
2-Butanone(MEK)	200	4.000	N/A	N/A	10 U	10 U	10 U	10 U	N/A	N/A	10 U	N/A	N/A	N/A	0	0
Acetone		6,000	N/A	N/A	10 U	10 U	10 U	12	N/A	N/A	10 U	N/A	N/A	N/A		
Benzene	5	5	N/A	N/A	2	1.9	10	3	N/A	N/A	1.3	N/A	N/A	N/A	0	0
Carbon disulfide	1000	70	N/A	N/A	2 U	2 U	2 U	2 U	N/A	N/A	2 U	N/A	N/A	N/A		0
Chlorobenzene Chloroethane	100	100	N/A N/A	N/A N/A	1.8	1 3.7	1 U 2 U	5.6	N/A N/A	N/A N/A	1 U 15	N/A N/A	N/A N/A	N/A N/A	0	0
Chloroform	80		N/A	N/A	10	10	10	10	N/A	N/A	10	N/A	N/A	N/A	0	
Diethyl Ether		1,400	N/A	N/A	100	23	20	59	N/A	N/A	11	N/A	N/A	N/A		0
IsoPropylbenzene		800	N/A	N/A	10	10	10	1.5	N/A	NA	10	N/A	N/A	N/A		0
Methyl-t-butyl ether(MTBE)		13	N/A	N/A	1 U	1 U	10	10	N/A	N/A	1 U	N/A	N/A	N/A		0
m&p-Xylene	-	10,000^	N/A	N/A	1 U	10	10	10	N/A	N/A	1 U	N/A	N/A	N/A	-	0
o-Xylene		10,000^	N/A N/A	N/A N/A	1 U 55	1 U 30 U	1 U 30 U	1 U 46	N/A N/A	N/A N/A	1 U 30 U	N/A N/A	N/A N/A	N/A N/A		0
tert-Butyl Alcohol (TBA) Tetrachloroethene	3.5	40	N/A N/A	N/A N/A	55 1 U	30 U 1 U	30 U	46 1 U	N/A	N/A	30 U	N/A N/A	N/A	N/A	0	0
Tetrahydrofuran(THF)	154	600	N/A	N/A.	89	11	10 U	88	N/A	N/A	10 U	N/A	NZA	NZA	0	0
trans-1,2-Dichloroethene	100	100	N/A	N/A	10	10	10	10	N/A	N/A	10	N/A	N/A	N/A	0	0
1,4-DIOXANE BY 8260B SIM - (ug/L)																
1,4-Dioxane	3	0.32	4.3	4.2	140	36	0.2 U	100 J+	0.2 U	1.3	26	0.43	0.2 U	5.7	6	8
DISSOLVED METALS BY 200.8 - (mg/L)																
Dissolved Antimony Dissolved Arsenic	0.006	0.006	0.001 U 0.048	0.001 U 0.05	N/A N/A	N/A N/A	N/A N/A	N/A N/A	0.001 U 0.0047	0.001 U 0.0063	N/A N/A	0.001 U 0.15	0.001 U 0.032	N/A N/A	0	0
Dissolved Arsenic Dissolved Barium	0.01	0.01	0.048	0.05	N/A N/A	N/A	N/A N/A	N/A N/A	0.0047	0.0063	N/A	0.15	0.032	N/A N/A	3	3
Dissolved Barufi	0.004	0.004	0.005 0.001 U	0.000 U	N/A	N/A	N/A	N/A	0.001 U	0.001 U	N/A	0.001U	0.001 U	N/A	0	0
Dissolved Calcium			73 J+	73 J+	N/A	N/A	N/A	N/A	35 J+	25 J+	N/A	37 J+	10 J+	N/A		
Dissolved Chromium	0.05	0.1	0.001 U	0.001 U	N/A	N/A	N/A	N/A	0.001U	0.001 U	N/A	0.001 U	0.001 U	N/A	0	0
Dissolved Iron			29 J+	30 J+	N/A	N/A	N/A	N/A	2.9 J+	13 J+	N/A	52 J+	14 J+	N/A		
Dissolved Lead	0.015	0.015	0.001 U	0.001 U	N/A	N/A	N/A	N/A	0.001 U	0.001 U	N/A	0.001 U	0.001 U	N/A N/A	0	0
Dissolved Magnesium Dissolved Manganese	0.3	0.84	20	21	N/A N/A	N/A N/A	N/A N/A	N/A N/A	6.8 0.65	6	N/A N/A	7.2	2.4	N/A N/A	5	4
Dissolved Manganese Dissolved Nickel	0.3	0.04	0.0092	0.012	N/A	N/A	N/A	N/A	0.0048	0.0018	N/A	0.0098	0.015	N/A	0	0
Dissolved Potassium		160	35	35	N/A	N/A	N/A	N/A	2.1	4.7	N/A	9.1	2	N/A		
Dissolved Sodium			32	33	N/A	N/A	N/A	N/A	6.5	17	N/A	1.3	6.2	N/A		
Dissolved Vanadium	0.26		0.005 U	0.005 U	N/A	N/A	N/A	N/A	0.005 U	0.005 U	N/A	0.005 U	0.005 U	N/A	0	
TOTAL METALS BY 200.8 - (mg/L)												_				
Total Antimony Total Arsenic	0.006	0.006	N/A N/A	N/A N/A	0.001 U 0.0052	0.001 U 0.018	0.001 U 0.001 U	0.001 U 0.0018	N/A N/A	N/A N/A	0.001 U 0.014	N/A N/A	N/A N/A	0.001 U 0.04	0	0
Total Arsenic	0.01	0.01	N/A N/A	N/A N/A	0.0052	0.018	0.001 0	0.0018	N/A	N/A	0.014	N/A	N/A N/A	0.04	3	3
Total Beryllium	0.004	0.004	N/A	NA	0.001 U	0.001 U	0.001 U	0.001 U	N/A	N/A	0.001 U	N/A	N/A	0.001 U	0	0
Total Calcium			N/A	N/A	38 J+	38 J+	29 J+	29 J+	N/A	N/A	19 J+	N/A	N/A	54 J+		
Total Chromium	0.05	0.1	N/A	N/A	0.001 U	0.001 U	0.0011	0.001 U	N/A	N/A	0.001 U	N/A	N/A	0.001 U	0	0
Total Iron			N/A	N/A	17 J+	13 J+	15 J+	2.6 J+	N/A	NA	14 J+	N/A	N/A	16 J+		
Total Lead	0.015	0.015	N/A	N/A	0.001 U	0.001 U	0.001 U	0.001 U	N/A	N/A	0.001 U	N/A	N/A	0.001 U	0	0
Total Magnesium	0.3	0.84	N/A N/A	N/A	34	18	13	36	N/A	N/A	16 0.49	N/A	N/A	21	6	
Total Manganese Total Nickel	0.3	0.84	N/A N/A	N/A N/A	0.0095	0.0076	0.0082	1.5 0.026	N/A N/A	N/A N/A	0.49	N/A N/A	N/A N/A	0.0086	0	0
Total Potassium		160	N/A	N/A	23	18	2.9	11	N/A	N/A	9.3	N/A	N/A	16		
Total Sodium	-		NJA	N/A	120	70	28	150	N/A	N/A	65	N/A	N/A	50		
Total Vanadium	0.26	1000	N/A	N/A_	0.005 U	0.005 U	0.005 U	0.005 U	N/A	N/A	0.005 U	N/A	N/A	0.005 U	0	900
PER- & POLY-FLUORINATED ALKYL SUBSTANCES BY MODIFIED	537 - (ng/L)				1		1		1	1			1		
Perfluorobutanoic Acid (PFBA) Perfluoropentanoic acid (PFpEA)			59.6 106	55.1 100	28.4	43.1 91	1.63 J 3.21 J	43.8 226 J	36.7 J 69.7	72.8	49.5 105	9.55	4.41 U 4.41 U	7.43		
Perfluorobutanesulfonic acid (PFBS)		-	4.34 J	4.21.1	28.7	9.09	3.26 J	24.2	2.59.1	3.40 J	9.95	22.1	4.41 U	2.6.1		
Perfluorohexanoix Acid (PFHxA)			193	190	89.8	185	3.81 J	173	92.4	210	204	25.2	4.41 U	18.1		
Perfluoroheptanoic acid (PFHpA)			397	388	51.6	406	4.40 U	214	190	422	412	41.5	4.41 U	28		
Perfluorohexanesulfonic acid (PFHxS)	1000	18 ²	30	26.7	50.7	60.9	4.40 U	98.5	13	11.7	58.9	8.13	4.41 U	11	(222)	5
1H, 1H, 2H, 2H-Perfluorooctanesulfonic Acid (6:2FTS)		122	4.54 U	4.47 U 818	4.45 U	4.56 U	4.40 U	4.71 U	4.49 U	4.66 U	4.52 U	4.45 U	4.41 U	4.37 U		
Perfluorooctanoic acid (PFOA) Perfluoroheptanesulfonic Acid (PFHpS)	70	12	815 4.62	818 2.89 J	86.2 4.45 U	577	8.99 4.40 U	425 5.75	553 3.34 J	914 11.7	812 10.5	96.1 4.45 U	2.76 J 4.41 U	64.4 4.37 U	8	9
Perfluorononanoic acid (PFNA)		112	39.1	2.69 J	4.45 U	7.49	4.40 U	32.9	175	392	10.5	4.450	4.41 U	4.37 U		6
Perfluorooctanesulfonamide (PFOSA)		-	2.02 J	3.13 J	4.59	16	8.19	18.6	5.25	23.3	15	6.5	7.14	7.97	-	
Perfluorooctanesulfonic (PFOS)	70	15 ²	34.8	38.9	16.7	108	2.26 J	223 J	404	819	395	10.5	4.41 U	6.98	5	7
Perfluorodecanoic Acid (PFDA)			4.54 U	4.47U	4.45 U	4.56 U	4.40 U	4.71 U	19	81.2	5.77	4.45 U	4.41 U	4.37 U		
1H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid (8:2FTS)	-		4.54 U	4.47U	4.45 U	4.56 U	4.40 U	4.71 U	4.49 U	4.66 U	4.52 U	4.45 U	4.41 U	4.37 U		
N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA) N-Ethyl Perfluorooctanesulfonamidoacetic (EtFOSAA)			4.54 U 1.76 J	4.47U 4.47U	4.45 U 4.45 U	4.56 U 4.56 U	4.40 U 4.40 U	4.71 U 4.71 U	4.49 U 4.49 U	4.66 U 4.66 U	4.52 U 4.52 U	4.45 U 4.45 U	4.41 U 4.41 U	4.37 U 4.37 U		
Perfluoroundecanoic Acid (PFUnA)	-		1.76 J 4.54 U	4.47U	4.45 U	4.56 U	4.40 U	4.71 U	4.49 U	4.66 U	4.52 U	4.45 U	4.41 U	4.37 U 4.37 U		
Perfluorodecanesulfonic Acid (PFDS)	-		4.54 U	4.47U	4.45 U	4.56 U	4.40 U	4.71 U	4.49 U	4.66 U	4.52 U	4.45 U	4.41 U	4.37 U		
Perfluorododecanoic Acid (PFDoA)		222	4.54 U	4.47U	4.45 U	4.56 U	4.40 U	4.71 U	4.49 U	4.66 U	4.52 U	4.45 U	4.41 U	4.37 U	1440	
N-Methyl Perfluorooctane Sulfonamide (MeFOSA)			22.7 U	22.3 U	22.2 U	22.8 U	22.0 U	22.4 UJ	22.5 U	23.3 U	22.6 U	22.2 U	22.0 U	21.8 U	-	
Perfluorotrodecanoic Acid (PFTrDA)			4.54 U	4.47U	4.45 U	4.56 U	4.40 U	4.71 U	4.49 U	4.66 U	4.52 U	4.45 U	4.41 U	4.37 U	1000	
Perfluorotetradecanoic Acid (PFTeDa)	-		4.54 U	4.47U	4.45 U 22.2 U	4.56 U 22.8 U	4.40 U	4.71 U	4.49 U 22.5 U	4.66 U	4.52 U 22.6 U	4.45 U	4.41 U	4.37 U		
N-Ethyl Perfluorooctane Sulfonamide (EtFOSA) Perfluorogexadecanoic Acid (PFHxDA)			22.7 U 4.54 U	22.3 U 4.47U	22.2 U 4.45 U	22.8 U 4.56 U	22.0 U 4.40 U	22.4 UJ 4.71 U	22.5 U 4.49 U	23.3 U 4.66 U	22.6 U 4.52 U	22.2 U 4.45 U	22.0 U 4.41 U	21.8 U 4.37 U		
N-Methyl Perfluorooctanesulfonamido Ethanol (MeFOSE)	-		4.54 U 22.7 U	4.4/U 22.3 U	4.45 U 22.2 U	4.56 U 22.8 U	4.40 U 22.0 U	4.71 U 23.5 U	4.49 U 22.5 U	4.66 U	4.52 U 22.6 U	4.45 U 22.2 U	4.41 U 22.0 U	4.37 U 21.8 U		
N-Ethyl Perfluorooctanesulfonamido Ethanol (MerOSE)			22.7 U	22.3 U	22.2 U	22.8 U	22.0 U	2.35 U	22.5 U	23.3 U	22.6 U	22.2 U	22.0 U	21.8 U		
Combination of PFOA and PFOS	70		849.8	856.9	102.9	685	11.25 J	648 J	957	1,733	1,207	106.6	2.76 J	71.38	9	
FIELD PARAMETERS																
Dissolved Oxygen (mg/l)			N/A	N/A	1.6	1.9	0.7	1.5	1.3	0.9	1.4	1.4	0.7	1		
Oxidation Reduction Potential (mV)			N/A	N/A	-128	-116	57	-141	51	-69	-125	-45	-1	-108	***	
pH (standard units)	-		N/A N/A	N/A N/A	7.1	6.9	6	7.5	5.9	6.4 301	7	6	5.9	6.8 858		
Specific Conductance (us/cm)			N/A N/A	N/A N/A	1,523	838 12	439 10	1,207	252	301	611 12	525	179 9	858		
Temperature (degrees Celcius) Turbidity (NTU)			N/A N/A	N/A N/A	< 5	< 5	97	< 5	< 5	<5	< 5	<5	< 5	< 5		

2020 Semi-Annual Summary Report

	-				JNIT 2 (AE-2A ¹	AE-2B1	AE-3A1	AE-3A-DUP1	AE-3B ¹	AE-4A	15.40		
Sampling Point ID Monitored Unit	USEPA	NHDES	AE-1A	AE-1B SBR	Till	SBR	Till	Till	SBR	AE-4A	AE-4B SBR	# of Ex USEPA	NHDE
Date of Sample Collection	CL	AGQS	5/15/20	5/15/20	5/21/20	5/21/20	5/20/20	5/20/20	5/20/20	5/12/20	5/12/20	CL	AGQ
VOLATILE ORGANIC COMPOUNDS BY 8260C - (ug/L)													
1,2,4-Trimethylbenzene	1000	330	N/A	N/A	10	10	10	10	10	10	10	-	0
1,2-Dichloropropane	5	5	N/A	N/A	10	10	10	10	10	10	1 U	0	0
1,4-Dichlorobenzene		75	N/A	N/A	10	10	10	10	1 U	10	1 U		0
2-Butanone(MEK)	200	4,000	N/A	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0	0
Acetone	-	6,000	N/A	N/A	10 U	10 U	13	10 U	10 U	10 U	10 U		
Benzene	5	5	N/A	N/A	10	10	1.3	1.3	10	10	10	0	0
Carbon disulfide		70	N/A	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U		0
Chlorobenzene	100	100	N/A	N/A	1.6	10	4.8	4.9	10	10	10	0	0
Chloroethane			N/A	N/A	2 U	2 U 1 U	4.5	4.5 1 U	2 U	2 U	2 U	0	
Chloroform	80		N/A	N/A	10		10		10	10	10	0	
Diethyl Ether		1,400	N/A	N/A	2.1	11	10	11	20	20	20		
soPropylbenzene		800	N/A	N/A N/A	10	10	10	10	10	10	10		0
Methyl-t-butyl ether(MTBE) m&p-Xylene		13 10,000^	N/A N/A	N/A	1U 1U	1 U 1 U	1U 1U	1U 1U	10	1U 1U	1 U 1 U		0
p-Xylene		10.000^	N/A	N/A	10	10	10	10	10	10	10		0
ert-Butyl Alcohol (TBA)		40	N/A	N/A	30 U	30 U	30 U	30 U	30 U	30 U	30 U		0
Tetrachloroethene	3.5	40	N/A	N/A	10	10	10	10	10	10	10	0	0
Tetrahydrofuran(THF)	154	600	N/A	N/A	10 U	12	10 U	10 U	10 U	10 U	10 U	0	0
rans-1,2-Dichloroethene	100	100	N/A	N/A	100	10	100	100	100	100	100	0	0
1,4-DIOXANE BY 8260B SIM - (ug/L)	100	100	DWA	19774	10	10	10	10	10	10	10	0	0
1,4-Dioxane	3	0.32	0.97	1.2	7	48	9.7	13	11	0.2 U	0.2 U	4	6
DISSOLVED METALS BY 200.8 - (mg/L)	3	0.52	0.87	1.6	<u> </u>	40	0.1	13		0.2 0	0.20	~	0
Dissolved Antimony	0.006	0.006	0.001 U	N/A	0.001 U	N/A	0.001 U	0.001 U	N/A	0.001 U	N/A	0	0
Dissolved Antimony Dissolved Arsenic	0.006	0.006	0.001 0	N/A N/A	0.001 0	N/A	0.001 0	0.001 0	N/A N/A	0.001 U	N/A N/A	3	3
Dissolved Arsenic	0.01	2	0.018	N/A	0.019	N/A	0.059	0.058	N/A	0.0010	N/A	0	0
Dissolved Barum	0.004	0.004	0.0019 0.001 U	N/A	0.0019 0.001 U	N/A	0.009 0.001 U	0.058 0.001 U	N/A	0.0038 0.001 U	N/A	0	0
Dissolved Beryllium Dissolved Calcium	0.004	0.004	40 J+	N/A N/A	27 J+	N/A	44 J+	46 J+	N/A N/A	7.2 J+	N/A		0
Dissolved Calcium Dissolved Chromium	0.05	0.1	0.001 U	N/A	0.001 U	N/A	0.001 U	0.001 U	N/A	0.001 U	N/A	0	0
Dissolved Chromium Dissolved Iron	0.00	0.1	0.42 J+	N/A	21 J+	N/A	30 J+	30 J+	N/A	0.001 U	N/A		0
Dissolved Iron Dissolved Lead	0.015	0.015	0.42 J+	N/A	0.001 U	N/A	0.001 U	0.001 U	N/A N/A	0.001 U	N/A	0	0
Dissolved Lead	0.015	0.015	14	N/A	7.9	N/A	18	18	N/A	5.8	N/A	U	0
Dissolved Magnesidin	0.3	0.84	0.6	N/A	1.1	N/A	1.9	2	N/A	0.012	N/A	3	2
Dissolved Nickel	0.3	0.04	0.001 U	N/A	0.0071	N/A	0.0073	0.0074	N/A	0.0012	N/A	0	0
Dissolved Potassium	0.1	160	4.1	N/A	13	N/A	16	17	N/A	2.4	N/A		
Dissolved Sodium		100	21	N/A	25	NVA	56	59	N/A	7.7	N/A		
Dissolved Vanadium	0.26	224	0.005 U	N/A	0.005 U	N/A	0.005 U	0.005 U	N/A	0.005 U	N/A	0	
FOTAL METALS BY 200.8 - (mg/L)	0.10		0.000 0	14011	0.000 0		0.000 0	0.000 0		0.000 0			
Total Antimony	0.006	0.006	N/A	0.001 U	N/A	0.001 U	N/A	N/A	0.001 U	N/A	0.001 U	0	0
Fotal Arsenic	0.01	0.00	N/A	0.0082	N/A	0.0051	N/A	N/A	0.052	N/A	0.001 U	1	1
Fotal Barium	0.01	2	N/A	0.036	N/A	0.075	N/A	N/A:	0.11	N/A	0.0077	00001	0
Total Beryllium	0.004	0.004	N/A	0.001 U	N/A	0.001 U	N/A	N/A	0.001 U	N/A	0.001 U	0	0
Total Calcium	0.004	0.004	N/A	35 J+	N/A	39 J+	N/A	N/A	48 J+	N/A	7.9 J+		
Total Chromium	0.05	0.1	N/A	0.001 U	N/A	0.001 U	N/A	N/A	0.001 U	N/A	0.001 U	0	0
Fotal Iron	0.00		N/A	2.4 J+	N/A	2.2 J+	N/A	N/A	9.6 J+	N/A	0.05 U		
Fotal Lead	0.015	0.015	N/A	0.001 U	N/A	0.001 U	N/A	N/A	0.001 U	N/A	0.001 U	0	0
Total Magnesium			N/A	16	N/A	28	N/A	N/A	22	N/A	6.5	14	
Fotal Manganese	0.3	0.84	N/A	0.59	N/A	1.2	N/A	N/A	1.2	N/A	0.005 U	3	2
Fotal Nickel	0.1	0.1	N/A	0.001 U	N/A	0.0085	N/A	N/A	0.0082	N/A	0.001 U	0	0
Fotal Potassium		160	N/A	5.9	N/A	11	N/A	N/A	18	N/A	3.7		
Total Sodium			N/A	26	N/A	140	N/A	N/A	76	N/A	14		
Fotal Vanadium	0.26		NZA.	0.005 U	N/A.	0.005 U	N/A.	N/A	0.005 U	N/A	0.005 U	0	
PER- & POLY-FLUORINATED ALKYL SUBSTANCES B	Y MODIFIE	D 537 - (n	a/L)										
Perfluorobutanoic Acid (PFBA)			1.5 J	2.01 J	24.8	47.1	20.2	20.2	19.6	4.42 U	4.14 U		
Perfluoropentanoic acid (PFpEA)	(1000)		2.02 J	4.54 U	50.2	106	43.1	40.5	37.4	4.42 U	4.14 U		
Perfluorobutanesulfonic acid (PFBS)	1222		4.27 U	4.54 U	4.77	14	6.55	5.94	4.09 J	4.42 U	4.14 U		
Perfluorohexanoix Acid (PFHxA)			2.64 J	2.8 J	109	206	68.5	64.1	67.1	4.42 U	4.14 U		
Perfluoroheptanoic acid (PFHpA)			4.27 U	4.54 U	244	383	103	105	96.8	4.42 U	4.14 U		
Perfluorohexanesulfonic acid (PFHxS)	(<u>1225</u>)	18 ²	1.8 J	1.88 J	22.8	89.4	20.1	19.4	13.4	4.42 U	4.14 U	0005	3
1H, 1H, 2H, 2H-Perfluorooctanesulfonic Acid (6:2FTS)		-	4.27 U	4.54 U	4.62 U	2.11 U	4.59 U	4.59 U	4.55 U	4.42 U	4.14 U		
Perfluorooctanoic acid (PFOA)	70	12 ²	4.47	5.61	558	766	302	288	261	4.42 U	4.14 U	4	4
Perfluoroheptanesulfonic Acid (PFHpS)		-	4.27 U	4.54 U	6.69	13.6	1.23 J	4.59 U	1.91 J	4.42 U	4.14 U		
Perfluorononanoic acid (PFNA)		11 ²	4.27 U	4.54 U	142	120	55.6	49.3	43.4	4.42 U	4.14 U	(***)	4
Perfluorooctanesulfonamide (PFOSA)	1000		4.27 U	4.54 U	13.1	7.83	19.7 J	31.4 J	11.3	4.42 U	4.14 U		
	70	15 ²	4.27 U	4.54 U	413	445	104 J	100	92.7	4.42 U	4.14 U	4	4
	10		4.27 U	4.54 U	18.5	9.01	7.86	7.57	7.68 4.55 U	4.42 U	4.14 U		
Perfluorodecanoic Acid (PFDA)										4.42 U	4.14 U		
Perfluorodecanoic Acid (PFDA) 1H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid (8:2FTS)	-		4.27 U	4.54 U	4.62 U	2.11 U	4.59 U	4.59 U					
Perfluorodecanoic Acid (PFDA) IH, 1H, 2H, 2H-Perfluorodecanesulfonic Acid (8:2FTS) 4-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOS	-		4.27 U 4.27 U	4.54 U 4.54 U	4.62 U	2.11 U	4.59 U	4.59 U	4.55 U	4.42 U	4.14 U		
Perfluorodecanoic Acid (PFDA) H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid (8:2FTS) 4-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOS 4-Ethyl Perfluorooctanesulfonamidoacetic (EtFOSAA)	-		4.27 U 4.27 U 4.27 U	4.54 U 4.54 U 4.54 U	4.62 U 4.62 U	2.11 U 2.11 U	4.59 U 2.74 J	4.59 U 2.81 J	4.55 U 3.12 J	4.42 U	4.14 U		-
Perfluorodecanoic Acid (PFDA) H, HI, 2H, 2H-Perfluorodecanesulfonic Acid (8:2FTS) H-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOS 4-Ethyl Perfluorooctanesulfonamidoacetic (EtFOSAA) Perfluoroundecanoic Acid (PFUnA)	-		4.27 U 4.27 U 4.27 U 4.27 U 4.27 U	4.54 U 4.54 U 4.54 U 4.54 U	4.62 U 4.62 U 4.62 U	2.11 U 2.11 U 2.11 U	4.59 U 2.74 J 4.59 U	4.59 U 2.81 J 4.59 U	4.55 U 3.12 J 4.55 U	4.42 U 4.42 U	4.14 U 4.14 U		
Parfluorodecanoic Acid (PFDA) H, 1H, 2H, 2H-Parfluorodecanesuifonic Acid (8:2FTS) Wethyth Perfluorocatanesuifonamidoacetic Acid (MeFOS 4-Ethyl Perfluorocatanesuifonamidoacetic (EtFOSAA) Perfluorocatanesuifonic Acid (PFDA) Perfluorocatanesuifonic Acid (PFDS)		1 1 1	4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U	4.62 U 4.62 U 4.62 U 4.62 U	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U	4.59 U 2.74 J 4.59 U 4.59 U	4.59 U 2.81 J 4.59 U 4.59 U	4.55 U 3.12 J 4.55 U 4.55 U	4.42 U 4.42 U 4.42 U	4.14 U 4.14 U 4.14 U		
Perfluoradesancia Acid (PEDA) HI 11, 22, 21-Perfluoradesanesultonic Acid (8:2FTS) HMethyl Perfluorocatanesultonamidoacetic Acid (MeFOS HEthyl Perfluorocatanesultonamidoacetic (EFOSAA) Perfluoradesanesultonic Acid (PEDS) Perfluoradesanesultonic Acid (PEDS) Perfluoradesanesultonic Acid (PEDS)		1 1 1 1	4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U	4.62 U 4.62 U 4.62 U 4.62 U 4.62 U	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U	4.59 U 2.74 J 4.59 U 4.59 U 4.59 U	4.59 U 2.81 J 4.59 U 4.59 U 4.59 U	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U	4.42 U 4.42 U 4.42 U 4.42 U 4.42 U	4.14 U 4.14 U 4.14 U 4.14 U		
Perfluorodecanoic Acid (PFDA) H. 11, 24, 24, Perfluorodecanesulfonic Acid (8:2FTS) H. Methyl Perfluorocctanesulfonamidoacetic Acid (MeFOS Ethyl Perfluorocctanesulfonamidoacetic (EIFOSA) Perfluorocctanesulfonic Acid (PFDS) Perfluorodoceanoic Acid (PFDS) Perfluorocdaceanoic Acid (PFDS) Perfluorocdaceanoic Acid (PFDS)			4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ	4.62 U 4.62 U 4.62 U 4.62 U 4.62 U 4.62 U 23.1 U	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 10.5 U	4.59 U 2.74 J 4.59 U 4.59 U 4.59 U 22.9 U	4.59 U 2.81 J 4.59 U 4.59 U 4.59 U 22.9 U	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 22.7 U	4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 22.1 U	4.14 U 4.14 U 4.14 U 4.14 U 20.7 U		
Perfluoradecanic Acid (PEDA) HI 11, 24, 21-Herthurordecanesulfonic Acid (8:2FTS) Whethyl Perfluoradcanesulfonamidoacetic (EFOSAA) Perfluoradcanesulfonic Acid (PEOS) Perfluoradcanesulfonic Acid (PEOS) Perfluoradcanesulfonic Acid (PEOA) Perfluoradcanesulfonic Acid (PEOA) Whethyl Perfluoradcanesulfonamide (MeFOSA) Perfluoradcanesulfonic Acid (PEOA)		1 1 1 1	4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U	4.62 U 4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 10.5 U 2.11 U	4.59 U 2.74 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U	4.59 U 2.81 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U	4.42 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U	4.14 U 4.14 U 4.14 U 4.14 U 20.7 U 4.14 U		
Verfluorodecanic Acti (PFDA) H. 11, 24, 24, 24–47 Murcodecanesultonic Acid (8,27TS) Methyl Perfluorocatanesultonic Acid (8,27TS) Perfluorodecanesultonic Acid (PFDA) Perfluorodecanesultonic Acid (PFDA) Perfluorodecanesultonic Acid (PFDA) Methyl Perfluorocatene Suffanaria (MeFOSA) Perfluorodecanesultonic Acid (PFDA) Methyl Perfluorocatene Suffanaria (MeFOSA) Perfluorotdecanic Acid (PFTCA) Perfluorotdecanic Acid (PFTCa)			4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 4.27 U 4.27 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U 4.54 U 4.54 U	4.62 U 4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 4.62 U 4.62 U	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 10.5 U 2.11 U 2.11 U 2.11 U	4.59 U 2.74 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 4.59 U	4.59 U 2.81 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U 4.55 U 4.55 U	4.42 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 4.42 U 4.42 U	4.14 U 4.14 U 4.14 U 4.14 U 20.7 U 4.14 U 4.14 U		
Perfluorodecanic Acid (PFDA) H. 11, 24, 24, 74–741 mordecanesulfonic Acid (8,2FTS) H. Methyl Perfluorodcanesulfonic Acid (8,2FTS) Perfluorodcanesulfoni Acid (9,2FDA) Perfluorodcanesulfoni Acid (9,2FDA) Perfluorodcanesulfoni Acid (9,2FDA) Perfluoroddcanic Acid (9,2FDA)			4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 4.27 U 21.6 UJ	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U 4.54 U 22.2 UJ 22.2 UJ	4.62 U 4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 4.62 U 4.62 U 23.1 U 23.1 U	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 10.5 U 2.11 U 2.11 U 2.11 U 10.5 U	4.59 U 2.74 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 4.59 U 22.9 U	4.59 U 2.81 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 4.59 U 22.9 U	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U 4.55 U 4.55 U 22.7 U	4.42 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 4.42 U 4.42 U 4.42 U 22.1 U	4.14 U 4.14 U 4.14 U 4.14 U 20.7 U 4.14 U 4.14 U 4.14 U 20.7 R		
V-Ethyl Perfluorooctane Sulfonamide (EtFOSA) Perfluorogexadecanoic Acid (PFHxDA)			4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 4.27 U 21.6 UJ 4.27 U 21.6 UJ 4.27 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U	4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 23.1 U 4.62 U	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 10.5 U 2.11 U 2.11 U 10.5 U 2.11 U 2.11 U	4.59 U 2.74 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 22.9 U 4.59 U 22.9 U 4.59 U	4.59 U 2.81 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 22.9 U 4.59 U	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U 4.55 U 22.7 U 4.55 U 22.7 U 4.55 U	4.42 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 22.1 U 4.42 U	4.14 U 4.14 U 4.14 U 4.14 U 20.7 U 4.14 U 4.14 U 4.14 U 20.7 R 4.14 U		
Perfluorodecancie Acid (PFDA) H. 11, 24, 24, 74–741 mordecanceut/onac Acid (8,2FTS) H. Methyl Perfluorocacanceut/onacid/cacid (8,2FTS) Perfluorodecanceut/onacid/cacid (8,2FTS) Perfluorodecanceut/onacid/cacid (9,2FTS) Perfluorodecanceut/onacid (9,2FTS) Perfluorodecanceut/onaci			4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 21.6 UJ 21.6 UJ 21.3 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 22.7 U	4.62 U 4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 4.62 U 23.1 U 4.62 U 23.1 U 23.1 U	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 10.5 U 2.11 U 2.11 U 2.11 U 10.5 U 2.11 U 10.5 U 2.11 U	4.59 U 2.74 J 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U	4.59 U 2.81 J 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U 4.55 U 22.7 U 4.55 U 22.7 U 22.7 U	4.42 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 22.1 U 4.42 U 22.1 U	4.14 U 4.14 U 4.14 U 20.7 U 4.14 U 4.14 U 4.14 U 20.7 R 4.14 U 20.7 R 4.14 U 20.7 U		
Verfluorodecanic Acti (PEDA) H. 11, 24, 24, 24–47 Murcodecanesultonic Acid (8,2715) Methyl Perfluorodcanesultonic Acid (8,2715) Perfluorodcanesultonic Acid (PEDA) Perfluorodcanesultonic Acid (PEDA) Perfluorodcanesultonic Acid (PEDA) Methyl Perfluoroccanes Sufformaride (MeFOSA) Perfluorodcanesultonic Acid (PETDA) Methyl Perfluoroccanes Sufformaride (MeFOSA) Perfluorotalescanesicanesi (Acid (PETDA) Methyl Perfluoroccanes (Acid (PETDA) Methyl Perfluoroccanes (Acid (PETDA) Methyl Perfluoroccanes (Acid (PETDA) Methyl Perfluoroccanes (Acid (PETDA) Methyl Perfluoroccanesultonamido (EInanol (EFOSA) Methyl Perfluoroccanesultonamido (EInanol (EFOSA) Methyl Perfluoroccanesultonamido (EInanol (EFOSA)			4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 4.27 U 21.6 UJ 21.6 UJ 21.3 U 21.3 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.7 U 22.7 U	4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 23.1 U 23.1 U 23.1 U	2.11 U 2.11 U 10.5 U 2.11 U 10.5 U 10.5 U	4.59 U 2.74 J 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U	4.59 U 2.81 J 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U 22.7 U 4.55 U 22.7 U 2.7 U 2.7 U 2.7 U 2.7 U 2.7 U	4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 4.42 U 22.1 U 4.42 U 22.1 U 22.1 U 22.1 U 22.1 U	4.14 U 4.14 U 4.14 U 20.7 U 4.14 U 4.14 U 4.14 U 20.7 R 4.14 U 20.7 R 4.14 U 20.7 U 20.7 U		
Verfluorodecanic Acti (PFDA) H. 11, 24, 24, 24–471 Hurodecanesultonic Acti (8, 2FTS) H. Methy Ferfluorodecanesultonic Actia (8, 2FTS) Verfluorodecanica Methylater (8, 2FTA) Verfluorodecanica Methylater (8, 2FTA) Verfluorodecanica Actia (PFDA) Methylater (8, 2FTA) Methylater (8,			4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 21.6 UJ 21.6 UJ 21.3 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 22.7 U	4.62 U 4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 4.62 U 23.1 U 4.62 U 23.1 U 23.1 U	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 10.5 U 2.11 U 2.11 U 2.11 U 10.5 U 2.11 U 10.5 U 2.11 U	4.59 U 2.74 J 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U	4.59 U 2.81 J 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U 4.55 U 22.7 U 4.55 U 22.7 U 22.7 U	4.42 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 22.1 U 4.42 U 22.1 U	4.14 U 4.14 U 4.14 U 20.7 U 4.14 U 4.14 U 4.14 U 20.7 R 4.14 U 20.7 R 4.14 U 20.7 U		
Perfluorosciencia Acti (PEDA) H. 11, 21, 21, 21–417 microscience automic Acti (8.2FTS) H. Methy I Perfluoroscience sufformánoscienci (EHFOSAA) Perfluoroscience sufformánoscienci (EHFOSAA) Perfluoroscience sufformánoscienci (EHFOSA) Perfluoroscience sufformánosci (PEDS) Perfluoroscience sufformánice (NeFOSA) Perfluoroscience sufformánice (NeFOSA) Perfluoroscience actionarias (MeFOSA) Perfluoroscience actionarias (MeFOSA) Perfluoroscience actionarias (MeFOSA) Perfluoroscience actionarias (MeFOSA) Perfluorosci Acti (PEFTOA) Perfluorosci Acti (PEFTOA) Methy I Perfluorosci Acti (PEFTOA) Methy I Perfluorosci Actiones (Janiano (EHFOSA) Methy I Perfluorosci Actiones Janiano (EHFOSE) Combination of PFOA and PFOS <u>BELD PARAMETERS</u>			4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 21.6 UJ 4.27 U 21.6 UJ 4.27 U 21.3 U 21.3 U 21.3 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 2.7 U 22.7 U 5.61	4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 23.1 U 4.62 U 23.1 U 4.62 U 23.1 U 23.1 U 23.1 U 23.1 U 971	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 10.5 U 2.11 U 10.5 U 10.5 U 10.5 U 1.211	4.59 U 2.74 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U	4.59 U 2.81 J 4.59 U 4.59 U 2.9 U 4.59 U 2.9 U 4.59 U 2.9 U 4.59 U 2.9 U 2.9 U 2.9 U 2.9 U 388	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U 22.7 U 4.55 U 22.7 U 353.7	4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 22.1 U 22.1 U 22.1 U 22.1 U	4.14 U 4.14 U 4.14 U 20.7 U 4.14 U 20.7 U 4.14 U 20.7 R 4.14 U 20.7 U 20.7 U 20.7 U 20.7 U		
Verfluorodecanic Acti (PFDA) H. 11, 24, 24, 74–741 muordecanesultonic Acti (8, 2FTS) H. Methy Ferfluorodecanesultonic Actia (8, 2FTS) Verfluorodecanica (9, 2FTA) Verfluorodecanica (9, 2F			4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 21.6 UJ 4.27 U 21.3 U 21.3 U 21.3 U 21.3 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.7 U 22.7 U 22.7 U	4.62 U 4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 23.1 U 4.62 U 23.1 U 23.1 U 23.1 U 23.1 U 23.1 U 23.1 U 23.1 U	2.11 U 2.11 U 10.5 U 2.11 U 10.5 U 2.11 U 10.5 U 1.211	4.59 U 2.74 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 4.59 U 22.9 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U	4.59 U 2.81 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 22.9 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U 388	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U 22.7 U 4.55 U 22.7 U 4.55 U 22.7 U 22.7 U 22.7 U 353.7 1.4	4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 22.1 U 4.42 U 22.1 U 4.42 U 22.1 U	4.14 U 4.14 U 4.14 U 20.7 U 4.14 U 20.7 U 4.14 U 20.7 R 4.14 U 20.7 R 4.14 U 20.7 U 20.7 U 8.7 U 8.6		
Perfluorodecenno: Acid (PFDA) H. 11, 24, 24, 24-Perfluorodecenesultonic Acid (8, 2FTS) H. Methy Ferfluorodecanesultonamidoacelic Acid (MerGS Ethy Perfluorodecenesultonamidoacelic (EHFGAA) Perfluorodocences) Acid (PFDA) Hethy Perfluorodocences) Acid (PFTA) Hethy Perfluorodocences) Acid (PFTA) Hethy Perfluorodocences) Acid (PFTA) Perfluorotecanesultonamide (EHFGSA) Perfluorotecanesultonamide (EHFGSA) Pe			4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 21.6 UJ 21.7 U 21.3 U 21.3 U 21.3 U 21.3 U 21.3 U 21.3 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 22.7 U 22.7 U 22.7 U 5.61	4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 23.1 U 4.62 U 23.1 U 24.1 U 24	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 0.5 U 2.11 U 10.5 U 2.11 U 10.5 U 2.11 U 10.5 U 1.211 10.5 U 1.211 1.3 -113	4.59 U 2.74 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 106 J	4.59 U 2.81 J 4.59 U 4.59 U 4.59 U 4.59 U 4.59 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U 388	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U 22.7 U 4.55 U 22.7 U 22.7 U 22.7 U 22.7 U 22.7 U 22.7 U 353.7 1.4 107	4.42 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 22.1 U 4.42 U 22.1 U 22	4.14 U 4.14 U 4.14 U 20.7 U 4.14 U 20.7 U 4.14 U 20.7 R 4.14 U 20.7 U 20.7 U 20.7 U 20.7 U 8.14 U 20.7 U 20.7 U 6 173		
Perfluorodecanic Acid (PFDA) H. 11, 24, 24, 24–Perfluorodecanesultonic Acid (8, 2FTS) H. Methy Ferfluorocatanesultonanidoacetic Acid (Mer GS Erth) Perfluorocatanesultonanidoacetic (EIFGSAA) Perfluorodecanica Acid (PFDA) Hethy Perfluorocatine Sulformanide (Mer GSA) Perfluorodecanico Acid (PFTCA) Hethy Perfluorocatine Sulformanide (Mer GSA) Perfluorodecanico Acid (PFTCA) Hethy Perfluorocatine Sulformanide (Mer GSA) Perfluorodecanico Acid (PFTCA) Hethy Perfluorocatinesultonanide (Mer GSA) Perfluorodecanico Acid (PFTCA) Hethy Perfluorocatinesultonanide (EFGSA) Perfluorocatinesultonanido Ethanol (Mer GSE) EED PARAMETERS Bisched Oxygen (rng/1) Zoldation Reduction Potential (mV) H (standard units)			4.27 U 4.27 U 21.6 UJ 4.27 U 21.6 UJ 4.27 U 4.27 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.7 U 22.7 U 22.7 U 22.7 U 5.61	4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 23.1 U 4.62 U 23.1 U 24.1 U 24	2.11 U 2.11 U 10.5 U 2.11 U 10.5 U 1.211 1.3 -113 7.3	4.59 U 2.74 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 22.9 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U 4.59 J 22.9 U 22.9 U 1.3 -106 6.5	4.59 U 2.81 J 4.59 U 4.59 U 2.29 U 4.59 U 2.29 U 4.59 U 2.29 U	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U 22.7 U 4.55 U 22.7 U 353.7 1.4 107 6.9	4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 22.1 U 4.42 U 22.1 U 22.1 U 22.1 U 22.1 U 22.1 U 22.1 U 22.1 U 22.1 U 5.1 U 22.1 U 22.1 U 6.6	4.14 U 4.14 U 4.14 U 20.7 U 4.14 U 20.7 U 4.14 U 20.7 R 4.14 U 20.7 U 20.7 U 20.7 U 20.7 U 20.7 U 7 U 20.7 U 7 0 7 0 8 7 0 8 7 7 0 8 7 8 7 0 8 7 7 0 8 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7		
Perfluorodeance Acti (PFDA) H. 11, 24, 24, 74–741 mordeance sufficient (Mer GS Ethy Perfluorodeance sufficient (Mer GS Ethy Perfluorodeance (EIFOSA) Perfluorodeance (EIFO			4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 4.27 U 21.6 UJ 4.27 U 21.6 UJ 21.7 U 21.3 U 21.3 U 21.3 U 21.3 U 21.3 U 21.3 U	4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 4.54 U 22.2 UJ 22.7 U 22.7 U 22.7 U 5.61	4.62 U 4.62 U 4.62 U 4.62 U 23.1 U 4.62 U 23.1 U 4.62 U 23.1 U 24.1 U 24	2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 2.11 U 0.5 U 2.11 U 10.5 U 2.11 U 10.5 U 2.11 U 10.5 U 1.211 10.5 U 1.211 1.3 -113	4.59 U 2.74 J 4.59 U 4.59 U 4.59 U 22.9 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 22.9 U 106 J	4.59 U 2.81 J 4.59 U 4.59 U 4.59 U 4.59 U 4.59 U 4.59 U 22.9 U 22.9 U 22.9 U 22.9 U 388	4.55 U 3.12 J 4.55 U 4.55 U 4.55 U 22.7 U 4.55 U 22.7 U 4.55 U 22.7 U 22.7 U 22.7 U 22.7 U 22.7 U 22.7 U 353.7 1.4 107	4.42 U 4.42 U 4.42 U 4.42 U 22.1 U 4.42 U 22.1 U 4.42 U 22.1 U 22	4.14 U 4.14 U 4.14 U 20.7 U 4.14 U 20.7 U 4.14 U 20.7 R 4.14 U 20.7 U 20.7 U 20.7 U 20.7 U 8.14 U 20.7 U 20.7 U 6 173		

2020 Semi-Annual Summary Report

Coakley Landfill Superfund Site - Greenland and North Hampton, New Hampshire

	10		1		OPE	RABLE U	JNIT 2 (C)U-2)			10			S					
Sampling Point ID			FPC-2A1	FPC-2B ¹	FPC-3A1	FPC-3B ¹	FPC-3C1	FPC-4B	FPC-5A	FPC-5B	FPC-6A	FPC-6B	FPC-7A1	FPC-7B1	FPC-8A1	FPC-8B ¹	FPC-9A		ceedances
Monitored Unit	USEPA	NHDES	Outwash	SBR	Till	SBR	Outwash	SBR	Till	SBR	Till	SBR 5/13/20	Till 5/20/20	SBR	Till	SBR	Till 5/14/20	USEPA	NHDES
Date of Sample Collection	CL	AGQS	5/19/20	5/19/20	5/19/20	5/19/20	5/19/20	5/12/20	5/22/20	5/22/20	5/13/20	5/13/20	5/20/20	5/20/20	5/21/20	5/21/20	5/14/20	CL	AGQS
VOLATILE ORGANIC COMPOUNDS BY 8260C - (ug/L)	_	000							A1/A	N/A			11/4						0
1,2,4-Trimethylbenzene 1,2-Dichloropropane	5	330 5	1 U 1 U	1 U 1 U	1U 1U	1U 1U	1U 1U	1 U 1 U	N/A N/A	N/A	1U 1U	10	N/A	N/A N/A	1 U 1 U	1U 1U	10	0	0
1.4-Dichlorobenzene		75	10	10	10	10	10	10	N/A	N/A	10	10	N/A	N/A	10	10	10		0
2-Butanone(MEK)	200	4.000	10 U	10 U	10 U	10 U	10 U	10 U	N/A	N/A	10 U	10 U	N/A	N/A	10 U	10 U	10 U	0	0
Acetone		6,000	10 U	10 U	10 U	10 U	10 U	10 U	N/A	N/A	10 U	10 U	N/A	N/A	10 U	10 U	10 U	-	
Benzene	5	5	10	1 U	1 U	10	10	10	N/A	N/A	10	10	N/A	N/A	10	10	10	0	0
Carbon disulfide		70	2 U	2 U	2 U	2 U	2 U	2 U	N/A	N/A	2 U	2 U	N/A	N/A	2 U	2 U	2 U		0
Chlorobenzene	100	100	1 U	1 U	1 U	1 U	10	1 U	N/A	N/A	1	1 U	N/A	N/A	1 U	10	1 U	0	0
Chloroethane			2 U	2 U	2 U	2 U	2 U	2 U	N/A	N/A	2 U	2 U	N/A	N/A	2 U	2 U	2 U	-	
Chloroform	80		10	10	10	10	10	10	N/A	N/A	10	10	N/A	N/A	10	10	10	0	
Diethyl Ether		1,400	2 U 1 U	2 U 1 U	2 U 1 U	2 U 1 U	2 U 1 U	2 U 1 U	N/A N/A	N/A N/A	4.3 1 U	2 U 1 U	N/A N/A	N/A N/A	2 U 1 U	2 U 1 U	2 U 1 U		0
IsoPropylbenzene		13	10	10	10	10	10	10	N/A N/A	N/A N/A	10	10	N/A N/A	N/A N/A	10	10	10		0
Methyl-t-butyl ether(MTBE) m&p-Xylene		10,000^	10	10	10	10	10	10	N/A	N/A	10	10	N/A	N/A	10	10	10		0
o-Xvlene		10.000^	10	10	10	10	10	10	N/A	N/A	10	10	N/A	N/A	10	10	10		ő
tert-Butyl Alcohol (TBA)		40	30 U	30 U	30 U	30 U	30 U	30 U	N/A	N/A	30 U	30 U	N/A	N/A	30 U	30 U	30 U		0
Tetrachloroethene	3.5	5	10	10	10	10	10	10	N/A	N/A	10	10	N/A	N/A	10	10	10	0	0
Tetrahydrofuran(THF)	154	600	10 U	10 U	10 U	10 U	10 U	10 U	N/A	N/A	10 U	10 U	N/A	N/A	10 U	10 U	10 U	0	0
trans-1,2-Dichloroethene	100	100	10	10	10	10	10	10	N/A	N/A	10	10	N/A	N/A	10	10	10	0	0
1,4-DIOXANE BY 8260B SIM - (ug/L)																	-		
1,4-Dioxane	3	0.32	0.21	0.2 U	0.2 U	0.2 U	0.25	0.2 U	21	37	7.1	3.4	0.2 U	0.2 U	0.41	0.38	13	5	7
DISSOLVED METALS BY 200.8 - (mg/L)																			
Dissolved Antimony	0.006	0.006	0.001 U	N/A	N/A	N/A	N/A	N/A	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0.001 U	0	0
Dissolved Arsenic	0.01	0.01	0.001 U	N/A	N/A	N/A	N/A	N/A	0.038	N/A	0.014	N/A	0.001 U	N/A	0.001 U	N/A	0.049	3	3
Dissolved Barium		2	0.019	N/A	N/A	N/A	N/A	N/A	0.07	N/A	0.015	N/A	0.0085	N/A	0.0078	N/A	0.072		0
Dissolved Beryllium	0.004	0.004	0.001 U	N/A	N/A	N/A	N/A	N/A	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0.001 U	0	0
Dissolved Calcium			28 J+	N/A	N/A	N/A	N/A	N/A	55 J+	N/A N/A	16 J+	N/A	35 J+	N/A N/A	27 J+	N/A	46 J+	-	
Dissolved Chromium	0.05	0.1	0.001 U 5.6 J+	N/A N/A	N/A	N/A N/A	N/A	N/A N/A	0.001 U 6 J+		0.001 U	N/A N/A	0.001 U 0.05 U		0.001 U 0.05 U	N/A N/A	0.001 U 6.1 J+	0	0
Dissolved Iron Dissolved Lead	0.015	0.015	0.001 U	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	6 J+ 0.001 U	N/A N/A	1.1 J+ 0.001 U	N/A N/A	0.05 U 0.001 U	N/A N/A	0.05 U	N/A N/A	6.1 J+	0	0
Dissolved Lead Dissolved Magnesium	0.013	0.015	15	N/A	N/A N/A	N/A N/A	N/A N/A	N/A	26	N/A	6.8	N/A	11	N/A	5.4	N/A N/A	23		
Dissolved Manganese	0.3	0.84	1.2	N/A	N/A	N/A	N/A	N/A	0.28	N/A	1.4	N/A	0.005 U	N/A	0.005 U	N/A	0.17	2	2
Dissolved Nickel	0.1	0.1	0.0012	N/A	N/A	N/A	N/A	N/A	0.0081	N/A	0.0036	N/A	0.011	N/A	0.0011	N/A	0.0037	0	0
Dissolved Potassium	-	160	4.9	N/A	N/A	N/A	N/A	N/A	21	N/A	4.4	N/A	3.2	N/A	2.4	N/A	9.1		
Dissolved Sodium			15	N/A	N/A	N/A	N/A	N/A	110	N/A	37	N/A	15	N/A	17	N/A	76		
Dissolved Vanadium	0.26	-	0.005 U	N/A	N/A	N/A	N/A	N/A	0.005 U	N/A	0.005 U	N/A	0.005 U	N/A	0.005 U	N/A	0.005 U	0	
TOTAL METALS BY 200.8 - (mg/L)																			
Total Antimony	0.006	0.006	N/A	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0	0
Total Arsenic	0.01	0.01	N/A	0.0021	0.0068	0.0028	0.013	0.001 U	N/A	0.001 U	N/A	0.0013	N/A	0.001 U	N/A	0.0069	N/A	1	1
Total Barium		2	N/A N/A	0.012	0.0025	0.005	0.0066 0.001 U	0.0034 0.001 U	N/A N/A	0.03	N/A N/A	0.015	N/A	0.0059	N/A N/A	0.0068	N/A		0
Total Beryllium Total Calcium	0.004	0.004	N/A N/A	0.001 U 9.9 J+	0.001 U 4.6 J+	0.001 U 2.1 J+	28 J+	3.9 J+	N/A N/A	0.001 U 4.8 J+	N/A N/A	0.001 U 5.2 J+	N/A N/A	0.001 U 36 J+	N/A N/A	0.001 U 24 J+	N/A N/A	0	0
Total Chromium	0.05	0.1	N/A	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NZA	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0	0
Total Iron	0.00	0.1	N/A	0.057 J+	0.089 J+	0.05 U	0.05 U	0.05 U	N/A	0.22 J+	N/A	1.2 J+	N/A	0.05 U	N/A	0.11 J+	N/A		
Total Lead	0.015	0.015	N/A	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0.001 U	N/A	0	0
Total Magnesium			N/A	1.2	0.58	0.98	7.8	2.6	N/A	3	N/A	2.9	N/A	11	N/A	5.2	N/A	100	1
Total Manganese	0.3	0.84	N/A	0.005 U	0.0094	0.017	0.14	0.005 U	N/A	0.054	N/A	0.55	N/A	0.005 U	N/A	0.024	N/A	1	0
Total Nickel	0.1	0.1	N/A	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	N/A	0.0061	N/A	0.0012	N/A	0.0029	N/A	0.001 U	N/A	0	0
Total Potassium		160	N/A	4.5	4.1	2.4	2.9	1.5	N/A	6.3	N/A	3.5	N/A	2.9	N/A	3	N/A	-	
Total Sodium		-	N/A	37	62	70	13	5.2	N/A	230	N/A	42	N/A	16	N/A	18	N/A		
Total Vanadium	0.26		N/A	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	N/A	0.005 U	N/A	0.005 U	N/A	0.005 U	N/A	0.005 U	N/A	0	-
PER- & POLY-FLUORINATED ALKYL SUBSTANCES BY MODIFIED 5	37 - (ng/L)													0.000 0	11//5				
Perfluorobutanoic Acid (PFBA)																			
Perfluoropentanoic acid (PEPEA)			1.46 J	3.11 J	4.63 UJ	4.41 U	4.48 U	4.36 U	21.6 J	23.4	3.7 J	0.964 J	10 J	9.31	3.00 J	1.76 J	6		
			4.61 U	5.51	4.63 U	4.41 U	4.48 U	4.36 U	46.6	36.7	7.74	3.47 J	31	9.31 24.9	3.00 J 1.45 J	1.76 J 4.66 U	9.65	-	
Perfluorobutanesulfonic acid (PFBS) Perfluoroberandix Acid (PFHxA)			4.61 U 3.59 J	5.51 4.57 U	4.63 U 4.63 U	4.41 U 4.41 U	4.48 U 4.48 U	4.36 U 4.36 U	46.6 6.7	36.7 13.2	7.74 2.69 J	3.47 J 4.45 U	31 6	9.31 24.9 4.56	3.00 J 1.45 J 3.34 J	1.76 J 4.66 U 4.66 U	9.65 4.57		=
Perfluorohexanoix Acid (PFHxA)			4.61 U	5.51	4.63 U	4.41 U	4.48 U	4.36 U	46.6	36.7	7.74	3.47 J	31	9.31 24.9	3.00 J 1.45 J	1.76 J 4.66 U	9.65	1 1 1 1	
Perfluorohexanoix Acid (PFHxA) Perfluoroheptanoic acid (PFHpA)			4.61 U 3.59 J 4.61 U 2.81 J	5.51 4.57 U 4.57 U 1.42 J	4.63 U 4.63 U 4.63 U 4.63 U	4.41 U 4.41 U 4.41 U 4.41 U 4.41 U	4.48 U 4.48 U 4.48 U 4.48 U	4.36 U 4.36 U 4.36 U 4.36 U	46.6 6.7 73.9 105	36.7 13.2 57.5 28.4	7.74 2.69 J 15.3 16.4	3.47 J 4.45 U 5.5 6.04	31 6 28 5.4	9.31 24.9 4.56 21.5 5.8	3.00 J 1.45 J 3.34 J 4.97 4.11 J	1.76 J 4.66 U 4.66 U 3.24 J 4.66 U	9.65 4.57 25.6 20		-
Perfluorohexanoix Acid (PFHxA)		 18 ²	4.61 U 3.59 J 4.61 U	5.51 4.57 U 4.57 U	4.63 U 4.63 U 4.63 U	4.41 U 4.41 U 4.41 U	4.48 U 4.48 U 4.48 U	4.36 U 4.36 U 4.36 U	46.6 6.7 73.9	36.7 13.2 57.5	7.74 2.69 J 15.3	3.47 J 4.45 U 5.5	31 6 28	9.31 24.9 4.56 21.5	3.00 J 1.45 J 3.34 J 4.97	1.76 J 4.66 U 4.66 U 3.24 J	9.65 4.57 25.6		=
Perfluorohexanoix Acid (PFHxA) Perfluorohexanesulfonic acid (PFHxA) Perfluorohexanesulfonic acid (PFHxS) 1H, TH, 2H, 2H-Perfluoroctanesulfonic Acid (6:2FTS) Perfluoroctanics acid (PFOA)			4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 7.18	5.51 4.57 U 4.57 U 1.42 J 4.57 U 4.57 U 0.902 J	4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 1.07 J	4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 0.854 J	4.48 U 4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 2.64 J	4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U	46.6 6.7 73.9 105 23.3 4.64 U 310	36.7 13.2 57.5 28.4 39.1 4.49 U 152	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8	31 6 28 5.4 2.08 J 4.50 U 11.8	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 12.6	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 11.5	1.76 J 4.66 U 3.24 J 4.66 U 1.57 J 4.66 U 4.42 J	9.65 4.57 25.6 20 14.3		-
Perfluconbexanoix Add (PFHxA) Perfluconbexanesulfonic add (PFHxA) Perfluconbexanesulfonic add (PFHxS) 1H, 1H, 2H, 2H-Perflucrocottanesulfonic Add (6:2FTS) Perfluconcetanesulfonic Add (PFHxB) Perfluconbeptanesulfonic Add (PFHxB)			4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 7.18 4.61 U	5.51 4.57 U 4.57 U 1.42 J 4.57 U 4.57 U 0.902 J 4.57 U	4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 1.07 J 4.63 U	4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 0.854 J 4.41 U	4.48 U 4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 2.64 J 4.48 U	4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U	46.6 6.7 73.9 105 23.3 4.64 U 310 1.75 J	36.7 13.2 57.5 28.4 39.1 4.49 U 152 1.20 J	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4 4.43 U	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8 4.45 U	31 6 28 5.4 2.08 J 4.50 U 11.8 4.50 U	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 12.6 4.25 U	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 11.5 4.46 U	1.76 J 4.66 U 3.24 J 4.66 U 1.57 J 4.66 U 4.42 J 4.66 U	9.65 4.57 25.6 20 14.3 4.26 U 67.8 4.26 U	-	
Perfuscrohexanoix Add (PFHxA) Perfuscrohexanesulfonic add (PFHxA) Perfuscrohexanesulfonic add (PFHxA) 1H, HL, 2H, 2H-Perfuscroctarresulfonic Add (6:2FTS) Perfuscrotaria add (PF0A) Perfuscrohexanesulfonic Add (PFHyS) Perfuscrohexanesulfonic Add (PFHyS) Perfuscrohexanesulfonic Add (PFHyS)		 18 ²	4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 7.18 4.61 U 4.61 U 4.61 U	5.51 4.57 U 4.57 U 1.42 J 4.57 U 4.57 U 0.902 J 4.57 U 4.57 U 4.57 U	4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 1.07 J 4.63 U 4.63 U	4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 0.854 J 4.41 U 4.41 U	4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 2.64 J 4.48 U 2.64 J 4.48 U 4.48 U	4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U	46.6 6.7 73.9 105 23.3 4.64 U 310 1.75 J 35.2	36.7 13.2 57.5 28.4 39.1 4.49 U 152 1.20 J 4.49 U	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4 4.43 U 3.65 J	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8 4.45 U 4.45 U 4.45 U	31 6 28 5.4 2.08 J 4.50 U 11.8 4.50 U 4.50 U	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 12.6 4.25 U 1.14 J	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 11.5 4.46 U 1.39 J	1.76 J 4.66 U 3.24 J 4.66 U 1.57 J 4.66 U 4.42 J 4.66 U 4.42 J 4.66 U	9.65 4.57 25.6 20 14.3 4.26 U 67.8 4.26 U 4.26 U 4.26 U	-	 2
Penfuscoheranoix Acid (PFHxA) Penfuscoheranea adid (PFHqA) Penfuscoheraneau/fonic adid (PFHqA) 11, 11, 12, 12, 12-Penfuscoctaneau/fonic Adid (6:2FTS) Penfuscocatanoic adid (PFOA) Penfuscontaneau/fonic Adid (PFHqS) Penfuscontaneau/fonic Adid (PFHqS) Penfuscontaneau/fonia/fonic (PFOSA)	 70 		4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 7.18 4.61 U 4.61 U 4.61 U 5.24	5.51 4.57 U 4.57 U 1.42 J 4.57 U 4.57 U 0.902 J 4.57 U 4.57 U 4.57 U	4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 1.07 J 4.63 U 4.63 U 4.63 U 7.01	4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 0.854 J 4.41 U 4.41 U 3.88 J	4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 2.64 J 4.48 U 4.48 U 4.48 U 4.48 U	4.36 U 4.36 U 10.3	46.6 6.7 73.9 105 23.3 4.64 U 310 1.75 J 35.2 9.89	36.7 13.2 57.5 28.4 39.1 4.49 U 152 1.20 J 4.49 U 4.49 U	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4 4.43 U 3.65 J 5.85	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8 4.45 U 4.45 U 4.45 U 6.99	31 6 28 5.4 2.08 J 4.50 U 11.8 4.50 U 4.50 U 3.89 J	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 12.6 4.25 U 1.14 J 3.15 J	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 11.5 4.46 U 1.39 J 4.46 U	1.76 J 4.66 U 3.24 J 4.66 U 1.57 J 4.66 U 4.42 J 4.66 U 4.42 J 4.66 U 7.89	9.65 4.57 25.6 20 14.3 4.26 U 67.8 4.26 U 4.26 U 9.94	 2 	
Perfusionheamoix Acid (PFHxA) Perfusionheamoix add (PFHxA) Perfusionheamoix add (PFHxA) Hi H, 24, 24 Herthoroxitanesutione Acid (6-2FTS) Perfusioncoamoix acid (PFAA) Perfusioncoamoix acid (PFAA) Perfusioncoamoix acid (PFAA) Perfusioncoamoix acid (PFAA) Perfusioncoamoix acid (PFAA)			4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 7.18 4.61 U 4.61 U 5.24 4.61 U	5.51 4.57 U 4.57 U 1.42 J 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 1.47 J	4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 1.07 J 4.63 U 4.63 U 7.01 4.63 U	4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 0.854 J 4.41 U 4.41 U 3.88 J 4.41 U	4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 2.64 J 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U	4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 10.3 4.36 U	46.6 6.7 73.9 105 23.3 4.64 U 310 1.75 J 35.2 9.89 58.4	36.7 13.2 57.5 28.4 39.1 4.49 U 152 1.20 J 4.49 U 4.49 U 4.49 U 17.1	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4 4.43 U 3.65 J 5.85 11.5	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8 4.45 U 4.45 U 6.99 2.67 J	31 6 28 5.4 2.08 J 4.50 U 11.8 4.50 U 4.50 U 3.89 J 4.50 U	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 12.6 4.25 U 1.14 J 3.15 J 2.41 J	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 11.5 4.46 U 1.39 J 4.46 U 1.17 J	1.76 J 4.66 U 3.24 J 4.66 U 1.57 J 4.66 U 4.42 J 4.66 U 4.42 J 4.66 U 7.89 4.66 U	9.65 4.57 25.6 20 14.3 4.26 U 67.8 4.26 U 4.26 U 9.94 15.4	-	
Penfuscoheranoix Acid (PFHxA) Penfuscoheranea adid (PFHqA) Penfuscoheranea adid PFHqA) Penfuscoheranea adid (PFHqA) Penfuscoheranea adid (PFHqA) Penfuscoheranea adid (PFHqA) Penfuscoheranea adid (PFHqA) Penfuscoheranea adid (PFHqA) Penfuscoheranea adid (PFQA) Penfuscoheranea adid (PFQA) Penfuscoheranea (PFQA) Penfuscoheranea (PGCA) Penfuscoheranea (PGCA)	 70 		4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 7.18 4.61 U 4.61 U 5.24 4.61 U 4.61 U	5.51 4.57 U 4.57 U	4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 1.07 J 4.63 U 4.63 U 7.01 4.63 U 4.63 U	4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 0.854 J 4.41 U 4.41 U 3.88 J 4.41 U 4.41 U 4.41 U	4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 2.64 J 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U	4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 10.3 4.36 U 4.36 U	46.6 6.7 73.9 105 23.3 4.64 U 310 1.75 J 35.2 9.89 58.4 3.07 J	36.7 13.2 57.5 28.4 39.1 4.49 U 152 1.20 J 4.49 U 4.49 U 17.1 4.49 U	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4 4.43 U 3.65 J 5.85 11.5 4.43 U	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8 4.45 U 4.45 U 6.99 2.67 J 4.45 U	31 6 28 5.4 2.08 J 4.50 U 11.8 4.50 U 4.50 U 3.89 J 4.50 U 4.50 U	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 12.6 4.25 U 1.14 J 3.15 J 2.41 J 4.25 U	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 11.5 4.46 U 1.39 J 4.46 U 1.17 J 4.46 U	1.76 J 4.66 U 3.24 J 4.66 U 1.57 J 4.66 U 4.42 J 4.66 U 4.42 J 4.66 U 7.89 4.66 U 7.89	9.65 4.57 25.6 20 14.3 4.26 U 67.8 4.26 U 4.26 U 9.94 15.4 4.26 U	 2 	
Penfuscrotepranok Acid (PFHxA) Penfuscrotepranok adid (PFHxA) Penfuscrotepranok adid (PFHxA) Penfuscrotepranok adid (PFHxA) Penfuscrotepranokationk Acid (PFHxB) Penfuscrotepranokationk Acid (PFHxB) Penfuscrotepranokationk Acid (PFHxB) Penfuscrocepranokationk Acid (PFDA) Penfuscrocepranokationk (PFDA) Penfuscrocepranokationk (PFDA) Penfuscrocepranokationk (PFDA) Penfuscrocepranokationk (PFDA)	 70 70 		4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 7.18 4.61 U 4.61 U 5.24 4.61 U 4.61 U 4.61 U 4.61 U	5.51 4.57 U 4.57 U 1.42 J 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 1.47 J 4.57 U 1.47 J 4.57 U	4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 7.01 4.63 U 4.63 U 4.63 U 4.63 U	4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 3.88 J 4.41 U 4.41 U 4.41 U 4.41 U	4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 2.64 J 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U	4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 10.3 4.36 U 10.3 4.36 U 4.36 U 4.36 U	46.6 6.7 73.9 105 23.3 4.64 U 310 1.75 J 35.2 9.89 58.4 3.07 J 4.64 U	36.7 13.2 57.5 28.4 39.1 4.49 U 152 1.20 J 4.49 U 4.49 U 17.1 4.49 U 4.49 U	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4 4.43 U 3.65 J 5.85 11.5 4.43 U 4.43 U	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8 4.45 U 4.45 U 6.99 2.67 J 4.45 U 4.45 U 4.45 U	31 6 28 5.4 2.08 J 4.50 U 11.8 4.50 U 4.50 U 3.89 J 4.50 U 4.50 U 4.50 U	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 12.6 4.25 U 1.14 J 3.15 J 2.41 J 4.25 U 4.25 U 4.25 U	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 11.5 4.46 U 1.39 J 4.46 U 1.17 J 4.46 U 1.17 J 4.46 U 4.46 U	1.76 J 4.66 U 3.24 J 4.66 U 1.57 J 4.66 U 4.42 J 4.66 U 7.89 4.66 U 7.89 4.66 U 4.66 U 4.66 U	9.65 4.57 25.6 20 14.3 4.26 U 67.8 4.26 U 4.26 U 9.94 15.4 4.26 U 9.94	 2 	
Penfusorbeanoix Acid (PFHxA) Penfusorbeanoes add (PFHqA) Penfusorbeanoes add (PFHqA) Penfusorbeanoes add (PFOA) Penfusorbeanoes Add (PFOA) 11, 111, 21, 21-Penfusorbeanoesufonic Acid (&E7TS) 11, 111, 21, 21-Penfusorbeanoesufonic Acid (Me/SXA)	 70 		4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 7.18 4.61 U 5.24 4.61 U 5.24 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U	5.51 4.57 U 4.57 U 1.42 J 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 1.47 J 4.57 U 4.57 U 4.57 U 4.57 U	4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 7.01 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U	4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 0.854 J 4.41 U 3.88 J 4.41 U 3.88 J 4.41 U 4.41 U 4.41 U 4.41 U	4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 2.64 J 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U	4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3	46.6 6.7 73.9 105 23.3 4.64 U 310 1.75 J 35.2 9.89 58.4 3.07 J 4.64 U 4.64 U	36.7 13.2 57.5 28.4 39.1 4.49 U 152 1.20 J 4.49 U 4.49 U 4.49 U 17.1 4.49 U 4.49 U 4.49 U 4.49 U	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4 4.43 U 3.65 J 5.85 11.5 4.43 U 4.43 U 4.43 U 4.43 U	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8 4.45 U 4.45 U 4.45 U 6.99 2.67 J 4.45 U 4.45 U 4.45 U 4.45 U	31 6 28 5.4 2.08 J 4.50 U 11.8 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 1.26 4.25 U 1.14 J 3.15 J 2.41 J 4.25 U 4.25 U 4.25 U 4.25 U	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 1.15 4.46 U 1.39 J 4.46 U 1.17 J 4.46 U 1.17 J 4.46 U 1.17 J 4.46 U 1.17 J 4.46 U	1.76 J 4.66 U 4.66 U 1.57 J 4.66 U 1.57 J 4.66 U 4.66 U 4.66 U 4.66 U 4.66 U 4.66 U 4.66 U 4.66 U 4.66 U	9.65 4.57 25.6 20 14.3 4.26 U 67.8 4.26 U 4.26 U 9.94 15.4 15.4 4.26 U 4.26 U 4.26 U 4.26 U	 2 	
Penfuscrotepranok Acid (PFHxA) Penfuscrotepranok adid (PFXA) Penfuscrotepranok adid (PFCA) Penfuscrotepranok (PFCA) Penfuscrotepranok (PFCA) Penfuscrotepranok (PFCA) Ni High Yenfuscrotepranok (PFCA) Ni Methy Penfuscrotepranok (PFCA)	 70 70 		4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 2.81 J 1.48 J 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U	5.51 4.57 U 4.57 U 1.42 J 4.57 U 4.57 U	4.63 U 4.63 U	4.41 U 4.41 U	4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 2.64 J 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U	4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 10.3 4.36 U 10.3 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U	46.6 6.7 73.9 105 23.3 4.64 U 310 1.75 J 35.2 9.89 58.4 3.07 J 4.64 U 4.64 U 4.85	36.7 13.2 57.5 28.4 39.1 4.49 U 152 1.20 J 4.49 U 4.49 U 17.1 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4 4.43 U 3.65 J 5.85 11.5 4.43 U 4.43 U 4.43 U 4.43 U	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8 4.45 U 4.45 U 6.99 2.67 J 4.45 U 4.45 U 4.45 U 4.45 U 4.45 U	31 6 28 5.4 2.08 J 4.50 U 11.8 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 12.6 4.25 U 1.14 J 3.15 J 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 11.5 4.46 U 1.39 J 4.46 U 1.17 J 4.46 U 1.17 J 4.46 U 1.17 J 4.46 U 1.45 U 4.46 U	1.76 J 4.66 U 3.24 J 4.66 U 1.57 J 4.66 U 4.66 U	9.65 4.57 25.6 20 14.3 4.26 U 67.8 4.26 U 4.26 U 9.94 15.4 4.26 U 4.26 U 4.26 U 4.26 U 4.26 U 4.26 U	 2 	
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Perfusionbeanoix Add (PFNA) Penfusionbeanoix add (PFDA) Penfusionbeanoix Add (PFDA)	 70 70 		4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 7.18 4.61 U 7.18 4.61 U 7.18 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U	5.51 4.57 U 4.57 U 1.42 J 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 1.47 J 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U 4.57 U	4.63 U 4.63 U	4.41 U 4.41 U	4.48 U 4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 2.64 J 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U	4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 4.36 U 10.3 4.36 U 10.3 4.36 U 4.36 U	46.6 6.7 73.9 105 23.3 4.64 U 310 1.75 J 35.2 9.89 58.4 3.07 J 4.64 U 4.64 U 4.85 4.64 U	36.7 13.2 57.5 28.4 39.1 4.49 U 152 1.20 J 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4 4.43 U 5.85 11.5 4.43 U 4.43 U 4.43 U 4.43 U 4.43 U	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8 4.45 U 20.8 4.45 U 4.45 U 4.45 U 4.45 U 4.45 U 4.45 U 4.45 U	31 6 28 5.4 2.08 J 4.50 U 11.8 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 12.6 4.25 U 1.14 J 3.15 J 2.41 J 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 1.15 4.46 U 1.39 J 4.46 U 1.17 J 4.46 U 4.46 U 4.46 U 4.46 U	1.76 J 4.66 U 3.24 J 4.66 U 1.57 J 4.66 U 1.57 J 4.66 U 4.42 J 4.66 U 4.66 U 4.66 U 4.66 U 4.66 U 4.66 U 4.66 U	9.65 4.57 25.6 20 14.3 4.26 U 4.26 U	 2 	
Penfusorbeanoix Acid (PFHxA) Penfusorbeanoes add (PFHxA) Penfusorbeanoes add (PFHxA) Penfusorbeanoes add (PFA) Penfusorbeanoes add (PFA) Penfusorbeanoes add (PFA) Penfusorbeanoes add (PFA) Penfusorbeanoes add (PFA) Penfusorbeanoes add (PFA) Penfusorbeanoes Add (PFCA) Penfusorbeanoes Add (PFCA) Penfusorbeanoes Add (PFCA) Nethyl Penfusorbeanoes Add (PFCA)	 70 70 70 		4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 7.18 4.61 U 7.18 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U 4.61 U	5.51 4.57 U 4.57 U 1.42 J 4.57 U 4.57 U	4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 1.07 J 4.63 U 4.63 U	4.41 U 4.41 U	4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 2.64 J 4.48 U 4.48 U	4.36 U 4.36 U	46.6 6.7 73.9 105 23.3 4.64 U 310 1.75 J 35.2 9.89 9.89 9.89 9.88 4.64 U 4.64 U 4.85 4.64 U 4.64 U	36.7 13.2 57.5 28.4 39.1 4.49 U 152 1.20 J 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4 4.43 U 5.85 5.85 5.85 5.11.5 4.43 U 4.43 U 4.43 U 4.43 U 4.43 U	3.47 J 4.45 U 5.5 6.04 J 3.84 J 4.45 U 20.8 4.45 U 20.8 4.45 U 4.45 U 4.45 U 4.45 U 4.45 U 4.45 U 4.45 U 4.45 U	31 6 28 5.4 2.08 J 4.50 U 11.8 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U 4.50 U	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 12.6 4.25 U 1.14 J 3.15 J 2.41 J 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 11.5 4.46 U 1.39 J 4.46 U 1.39 J 4.46 U 1.17 J 4.46 U 1.17 J 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U	1.76 J 4.66 U 3.24 J 4.66 U 1.57 J 4.66 U 4.66 U 4.66 U 7.89 4.66 U 4.66 U 4.66 U 4.66 U 4.66 U 4.66 U 4.66 U	9.65 4.57 25.6 20 14.3 4.26 U 67.8 4.26 U 4.26 U	 2 0 	
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Perfusorbeancix Acid (PFNA) Penfusorbeances add (PFDA) Penfusorbeances add (PFDA)	 70 70 70 		4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 4.61 U	5.51 4.57 U 4.57 U 1.42 J 4.57 U 1.42 J 4.57 U 4.57 U 21.0 W 21.0 W	4.63 U 4.63 U	4.41 U 4.41 U	4.48 U 4.48 U 4.48 U 1.55 J 4.48 U 1.55 J 4.48 U 4.48 U	4.36 U 4.36 U	46.6 6.7 73.9 105 23.3 4.64 U 310 1.75 J 35.2 9.89 58.4 3.07 J 4.64 U 4.64 U 4.64 U 4.64 U 4.64 U 4.64 U 4.64 U 4.64 U	36.7 13.2 57.5 57.5 28.4 39.1 4.49 U 152 1.20 J 4.49 U 17.1 4.49 U 17.1 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U 4.49 U 2.4 U 4.49 U 4.49 U	7.74 2.69 J 15.3 16.4 9.04 4.43 U 52.4 4.43 U 3.65 J 5.85 11.5 4.43 U 4.43 U 4.43 U 4.43 U 4.43 U 4.43 U 4.43 U 4.43 U 4.43 U 4.43 U	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8 4.45 U 20.8 4.45 U 4.45 U	31 6 28 5.4 2.08 J 4.50 U 11.8 4.50 U 4.50 U	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 1.14 J 3.15 J 2.41 J 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U 2.25 U 2.25 U 4.25 U 4.25 U	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 1.39 J 4.46 U 1.39 J 4.46 U 1.39 J 4.46 U 1.39 J 4.46 U 4.46 U	1.76 J 4.66 U 4.66 U 1.57 J 4.66 U 1.57 J 4.66 U 4.66 U	9.65 4.57 25.6 20 14.3 4.26 U 4.26 U	 2 0 	
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Perfusionbeanoix Acid (PFNA) Penfusionbeanoix adi (PFDA) Hi H, 12, H2, H2-HFNIDordeanaeusilionix Acid (8:27TS) Ni-Methy Penfusionbeanoix Adi (PFDA) Penfusiondeanoix Adi (PFDA) NEthy Penfusionoitame Sufformanide (MeFOSA) Penfusiondeanoix Adi (PFTGA) Penfusiondeanoix Adi (PFDA) NEthy Penfusionoitame Sufformanide (MeFOSA) NEthy Penfusionoitame Sufformanide (MeFOSE) NEthy			4.61 U 3.59 J 4.61 U 2.81 J 1.48 J 4.61 U 7.18 4.61 U 7.18 4.61 U 4.61 U 3.1 U 4.61 U 5.24 4.61 U 5.31 U 7.18 6.8 6.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5	5.51 4.57 U 4.57 U 2.57 U 21.0	4.63 U 4.63 U 4.	4.41 U 4.41 U 4.41 U 4.41 U 4.41 U 0.854 J 4.41 U 4.41 U 2.0 U 4.41 U 2.0 U 0.854 J 4.41 U 2.0 U 0.854 J 4.41 U 2.0 U 0.854 J 4.41 U 2.0 U 0.854 J 8.85 J 8.95 J 8.	448 U 448 U 224 U	4.36 U 4.36 U 4.	46.6 6.7 73.9 105 23.3 4.64 U 310 7.75 J 36.2 9.89 9.80 3.07 J 4.64 U 4.64 U 4.64 U 4.64 U 4.64 U 23.2 U 23.2 U 23.2 U 23.2 U 23.2 U 23.2 U 368.4 1.5 1.5 4.64 U 23.2 U 24.4 U 24	36.7 13.2 57.5 28.4 39.1 4.49 U 152 1.20 J 4.49 U 17.1 4.49 U 17.1 4.49 U 17.1 4.49 U 17.1 4.49 U 4.49 U 1.22.4 U 22.4 U 22.4 U 22.4 U 169.1 1.8 -146 8.1	7.74 2.69 J 15.3 16.4 9.04 4.43 U 5.2.4 4.43 U 3.65 J 5.85 11.5 4.43 U 4.43 U 2.1 U 4.43 U 2.1 U 6.3.9 1.1 -42 7.0	3.47 J 4.45 U 5.5 6.04 3.84 J 4.45 U 20.8 4.45 U 4.45 U 22.3 U 22.3 U 23.47 J 23.47 J 23.47 J	31 6 8 28 5.4 2.08 J 4.50 U 4.50 U 1.50 U 4.50 U 4.	9.31 24.9 4.56 21.5 5.8 1.36 J 4.25 U 1.14 J 4.25 U 1.14 J 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U 4.25 U 21.4 UJ 4.25 U 4.25 U 4.2	3.00 J 1.45 J 3.34 J 4.97 4.11 J 2.62 J 4.46 U 1.99 J 4.46 U 1.99 J 4.46 U 1.99 J 4.46 U 4.46 U 22.3 U 12.67 J 2.2 2.2 2.5 5.5	1.76 J 4.66 U 4.66 U 3.24 J 1.57 J 4.66 U 4.66 U 2.3.3 U 4.66 U 4.66 U 2.3.3 U 4.66 U 4.66 U 4.66 U 1.2.3 U 2.3.3 U 4.66 U 4.66 U 4.66 U 1.3.3 U 4.66 U 4.66 U 4.66 U 1.3.3 U 4.66 U 1.3.3 U 4.66 U 4.60 U 4.	9.65 4.57 25.6 20 4.26 U 4.26 U 4.27 J 3.3 U 8.32		

2020 Semi-Annual Summary Report

Coakley Landfill Superfund Site - Greenland and North Hampton, New Hampshire

		ar a						OPERABL	E UNIT	2 (OU-2)											
Sampling Point ID	_	-	FPC-9B ¹	FPC-11A	FPC-11E	GZ-105 ¹	GZ-105-DUP ¹	GZ-109	GZ-117	MW-20S	MW-20D1	MW-20D1 DUP	MW-20D2	MW-21S	MW-21D1	MW-21D2	MW-22S	MW-22D1	MW-22D2	# of Exceed	dances
Monitored Unit	USEPA		SBR	Till	SBR	SBR	SBR	OBH-BR	Til	Outwash	DBR	DBR	DBR	MSC	DBR	DBR	Outwash	DBR	DBR	USEPA N	NHDES
Date of Sample Collection	CL	AGQS	5/21/20	5/14/20	5/14/20	5/21/20	5/21/20	5/14/20	5/14/20	5/18/20	5/18/20	5/18/20	5/18/20	5/13/20	5/13/20	5/13/20	5/12/20	5/12/20	5/12/20	CL A	AGQS
VOLATILE ORGANIC COMPOUNDS BY 8260C - (ug/L) 1.2.4-Trimethylbenzene	-	330	10	AUG .		1 10	10	10	10	10	10	10	10	10	10	10	10	10	10	1	
1,2-Dichloropropane	5	5	10	N/A	N/A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	0
1.4-Dichlorobenzene		75	10	N/A	N/A	1.7	1.8	10	10	10	10	10	10	10	10	10	10	10	10		0
2-Butanone(MEK)	200	4,000	10 U	N/A	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0	0
Acetone		6,000	10 U	N/A	N/A	10 U	10 U	10 U	10 U	10 U	10 U	10 U	26	10 U	24	10 U	10 U	10 U	10 U		
Benzene	5	5	10	N/A	N/A	2.5	2.7	10	10	1 U	10	1 U	10	1.6	1 U	1 U	1 U	1 U	10	0	0
Carbon disulfide		70	2U	N/A	N/A	2 U	2 U	2 U	2 U	2 U	2 U	2 U	7.3	2 U	2 U	2 U	2 U	2 U	2 U		0
Chlorobenzene	100	100	10	N/A	N/A	4.2	4.4	1 U	10	10	1 U	1 U	10	3.6	10	10	1 U	1 U	10	0	0
Chloroethane		-	2 U	N/A	N/A	3.1	3.1	2 U	2 U	2 U	2 U	2 U	2 U	4.7	2 U	2 U	2 U	2 U	2 U		
Chloroform Diethyl Ether	80	1400	1 U 6.6	N/A	N/A N/A	1 U 25	1 U 26	10	10	10	10	10	10	1 U 24	10	1 U 2 U	1.9 2 U	10	10	0	0
Dietnyl Etner IsoPropylbenzene		800	6.6 1 U	N/A N/A	N/A	25 1 U	26	10	10	20	20	10	10	24 1 U	10	10	10	10	20		0
Methyl-t-butyl ether(MTBE)		13	10	N/A	N/A	10	10	10	10	10	10	10	10	10	10	10	10	10	10	-	0
m&p-Xylene	100	10,000^	10	N/A	N/A	10	10	10	10	10	10	10	10	10	10	10	10	10	10		0
o-Xylene		10,000^	10	N/A	N/A	10	1 U	1 U	10	10	10	10	10	10	10	1 U	10	10	10		0
tert-Butyl Alcohol (TBA)		40	30 U	N/A	N/A	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U		0
Tetrachloroethene	3.5	5	10	N/A	N/A	10	10	1 U	10	10	10	1 U	10	10	10	10	1 U	10	10	0	0
Tetrahydrofuran(THF)	154	600	10 U	N/A	N/A N/A	17	18	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0	0
trans-1,2-Dichloroethene	100	100	2 U	N/A	N/A	10	1 U	10	10	10	10	10	1 U	1 U	10	1 U	1 U	10	10	0	0
1.4-DIOXANE BY 8260B SIM - (ug/L) 1.4-Dioxane	3	0.00	1	1 0.04	0.07	1			1	1			1	T		1		1		3	5
1,4-Dioxane DISSOLVED METALS BY 200.8 - (mg/L)	3	0.32	3.7	0.84	0.27	31	35	0.2 0	0.2 U	0.2 U	0.26	0.2 U	0.64	28	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	3	5
Dissolved Antimony	0.006	0.006	bi/ A	0.001 U	ЪIJА.	NICA	N/A	b17A	NUA	0.001 U	N/A	N/A	N/A	0.001 U	N/A	AU/A	0.001 U	N/A	N/A	0	0
Dissolved Animony Dissolved Arsenic	0.00	0.00	N/A	0.0061	N/A	N/A	N/A	N/A	N/A	0.001 U	N/A	N/A	N/A	0.0087	N/A	N/A	0.001 U	N/A	N/A	0	0
Dissolved Barium		2	N/A	0.023	N/A	N/A	N/A	N/A	N/A	0.0038	N/A	N/A	N/A	0.026	N/A	N/A	0.0023	N/A	N/A	Name 1	0
Dissolved Beryllium	0.004	0.004	N/A	0.001 U	N/A	N/A	N/A	N/A	N/A	0.001 U	N/A	N/A	N/A	0.001 U	N/A	N/A	0.001 U	N/A	N/A	0	0
Dissolved Calcium			N/A	36 J+	N/A	N/A	N/A	N/A	N/A	8.1 J+	N/A		N/A	59 J+	N/A	N/A	5.8 J+	N/A	N/A		
Dissolved Chromium	0.05	0.1	N/A	0.001 U	N/A	N/A	N/A	N/A	N/A	0.001 U	N/A	N/A	N/A	0.001 U	N/A	N/A	0.001 U	N/A	N/A	0	0
Dissolved Iron			N/A N/A	0.36 J+	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A	0.05 U	N/A N/A	N/A N/A	N/A N/A	3.1 J+	N/A N/A	N/A N/A	0.05 U	N/A N/A	N/A	0	0
Dissolved Lead Dissolved Magnesium	0.015	0.015	N/A	0.001 U 12	N/A N/A	N/A	N/A N/A	N/A	N/A N/A	0.001 U 2.5	N/A N/A	N/A N/A	N/A	0.001 U 19	N/A	N/A N/A	0.001 U 3	N/A N/A	N/A N/A	0	0
Dissolved Magnesium Dissolved Manganese	0.3	0.84	N/A	0.35	N/A	N/A	N/A	N/A	N/A	0.0079	N/A	N/A	N/A	0.34	N/A	N/A	0.0082	N/A	N/A	2	0
Dissolved Nickel	0.1	0.1	N/A	0.025	N/A	N/A	N/A	N/A	N/A	0.0013	N/A	N/A	N/A	0.0064	N/A	N/A	0.0002	N/A	N/A	Ő	0
Dissolved Potassium		160	N/A	4.3	N/A	N/A	N/A	N/A	N/A	1.2	N/A	N/A	N/A	8.5	N/A	N/A	2.1	N/A	N/A	-	
Dissolved Sodium			N/A	150	N/A	N/A	N/A	N/A	N/A	25	N/A	N/A	N/A	110	N/A	N/A	6.8	N/A	N/A		-
Dissolved Vanadium	0.26	1000	N/A	0.005 U	N/A	N/A	N/A	N/A	N/A	0.005 U	N/A	N/A	N/A	0.005 U	N/A	N/A	0.005 U	N/A	N/A	0	410
TOTAL METALS BY 200.8 - (mg/L)																					
Total Antimony	0.006	0.006	0.001 U	N/A	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	J N/A	0.001 U	0.001 U	0.001 U	N/A	0.001 U	0.001 U	N/A	0.001 U	0.001 U	0	0
Total Arsenic	0.01	0.01	0.0019	N/A	0.0039	0.01	0.0097	0.001 U	0.001 U	N/A	0.0011	0.0012	0.0011	N/A	0.024	0.001 U	N/A	0.0032	0.001 U	2	2
Total Barium Total Beryllium	0.004	2	0.054 0.001 U	N/A N/A	0.18 0.001 U	0.039 0.001 U	0.038 0.001 U	0.0023 0.001 U	0.046 0.001 U	N/A	0.032 0.001 U	0.031 0.001 U	0.043 0.001 U	N/A N/A	0.0061 0.001 U	0.0011 0.001 U	N/A N/A	0.017 0.001 U	0.13 0.001 U	0	0
Total Calcium	0.004	0.004	25.1+	N/A	61.1+	45.1+	43.1+	0.42.1+	90.1+	N/A	35.1+	35.1+	27.1+	N/A	7.3 J+	23.1+	N/A	12 J+	240.1+	U	0
Total Chromium	0.05	0.1	0.001 U	N/A	0.001 U	0.001 U	0.001 U	0.001U	0.001 U	N/A	0.001 U	0.001	0.085	N/A	0.01	0.0019	N/A	0.001 U	0.028	1	0
Total Iron			0.77 J+	N/A	15 J+	3.2 J+	3 J+	0.069 J+	0.24 J+	N/A	0.05 UJ	0.91 J+	0.15 J+	N/A	0.49 J+	0.051 J+	N/A	0.05 U	0.1 J+		
Total Lead	0.015	0.015	0.001 U	N/A	0.001 U	0.001 U	0.001 U	0.001U	0.001 U	N/A	0.001 U	0.001 U	0.001 U	N/A	0.001 U	0.001 U	N/A	0.001 U	0.001 U	0	0
Total Magnesium			19	N/A	21	18	18	0.24	12	N/A	0.37	0.39	0.05 U	N/A	0.2	0.26	N/A	3.1	0.056		
Total Manganese	0.3	0.84	0.18	N/A	2.1	0.41	0.4	0.014	0.005 U	N/A	0.005 U	0.006	0.005 U	N/A	0.0065	0.005 U	N/A	0.005 U	0.005 U	2	1
Fotal Nickel	0.1	0.1	0.001 U	N/A	0.001 U	0.0064	0.0062	0.001 U	0.001 U	N/A	0.001 U	0.001 U	0.001 U	N/A	0.0011	0.001	N/A	0.001 U	0.0027	0	0
Total Potassium		160	7.1	N/A	15	6.3	6.1	1.8	4.8	N/A	4.8	4.7	51	N/A	9.1	5.3	N/A	4.9	52		
Total Sodium Total Vanadium	0.26		37 0.005 U	N/A	800 0.005 U	120 0.005 U	120 0.005 U	68 0.005 U	280 0.005 U	N/A	71 0.005 U	68 0.005 U	130 0.011	N/A N/A	82 0.015	89 0.005 U	N/A N/A	34 0.005 U	95 0.005 U		
PER- & POLY-FLUORINATED ALKYL SUBSTANCES BY MODIFIE		1	0.005.0	19075	0.003 0	0.005 0	0.005 0	0.005 0	0.005 0	1965	0.005 0	0.005 0	0.011	19675	0.015	0.003.0	.19075	0.005 0	0.005 0	, v	
Perfluorobutanoic Acid (PFBA)		-1	3.00 J	1.93 J	4.5 U	31.5	27	4.39 U	1.68 J	4.42 U	4.36 R	4.37 R	4.33 R	18	4.39 UJ	4.54 R	4.25 U	4.37 UJ	4.24 R	100	-
Perfluoropentanoic acid (PEpEA)			5.53	5.88	4.5 U	61.6	52.7	4.39 U	1.96 J	4.42 U	4.36 UJ	4.37 UJ	2.94 J	29.7	4.39 UJ	4.54 UJ	4.25 U	4.37 U	4.24 UJ		
Perfluorobutanesulfonic acid (PFBS)			3.19 J	4.43 U	4.5 U	17	13.2	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U	4.33 U	7.85	4.39 U	4.54 U	4.25 U	4.37 U	4.24 UJ		
Perfluorohexanoix Acid (PFHxA)			13.8	8.83	4.5 U	101	97.9	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U	3.15 J	55.3	4.39 U	4.54 U	4.25 U	4.37 U	4.24 UJ		
Perfluoroheptanoic acid (PFHpA)			8.02	4.43 U	4.5 U	138	132	4.39 U	0.925 J	4.42 U	1.29 J	0.944 J	3.19 J	61.5	4.39 U	4.54 U	4.25 U	4.37 U	4.24 U		
Perfluorohexanesulfonic acid (PFHxS)	(22)	18 ²	8.00	2.87 J	4.5 U	68.3	64.9	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U	2.48 J	27.4	4.39 U	4.54 U	4.25 U	4.37 U	4.24 U	1000	2
1H, 1H, 2H, 2H-Perfluorooctanesulfonic Acid (6:2FTS)		122	4.44 U 39.2	4.43 U 18.1	4.5 U 2.59 J	4.6 U 324	4.71 U 279	4.39 U	4.16 U	4.42 U 4.42 U	4.36 U 2.6 J	4.37 U	4.33 U 11.2	4.3 U 192	4.39 U 4.39 U	3.0 J	4.25 U 4.25 U	4.37 U 4.37 U	4.24 U 4.24 U		
Perfluorooctanoic acid (PFOA) Perfluoroheptanesulfonic Acid (PFHpS)	70	12'	39.2 4.44 U	18.1 4.43 U	2.59 J 4.5 U	324	279 4.28 J	4.39 U 4.39 U	5.06 4.16 U	4.42 U 4.42 U	2.6 J 4.36 U	2.32 J 4.37 U	11.2 4.33 U	192 4.3 U	4.39 U 4.39 U	4.54 U 4.54 U	4.25 U 4.25 U	4.37 U 4.37 U	4.24 U 4.24 U	2	4
Perfluorononanoic acid (PFNA)		112	4.44 U	4.43 U	4.5 U	30.8	29.9	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U	4.33 U	13.4	4.39 U	4.54 U	4.25 U	4.37 U	4.24 U		2
Perfluorooctanesulfonamide (PFOSA)			3.11 J	17.7	4.5 U	10.2	7.73	4.39 U	4.16 U	4.42 U	4.49	2.72 J	4.33 U	16	4.39 U	4.54 U	4.25 U	4.37 U	4.24 U	-	
Perfluorooctanesulfonic (PFOS)	70	15 ²	5.04	2.53 J	4.5 U	168	146	4.39 U	11.4	4.42 U	4.36 U	4.37 U	4.33 U	29	4.39 U	4.54 U	4.25 U	4.37 U	4.24 U	1	2
Perfluorodecanoic Acid (PFDA)			4.44 U	4.43 U	4.5 U	2.40 J	2.43 J	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U	4.33 U	4.3 U	4.39 U	4.54 U	4.25 U	4.37 U	4.24 U		
H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid (8:2FTS)			4.44 U	4.43 U	4.5 U	4.6 U	4.71 U	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U	4.33 U	4.3 U	4.39 U	4.54 U	4.25 U	4.37 U	4.24 U		
N-Methyl Perfluorooctanesulfon amidoacetic Acid (MeFOSAA)			4.44 U	4.43 U	4.5 U	4.6 U	4.71 U	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U	4.33 U	4.3 U	4.39 U	4.54 U	4.25 U	4.37 U	4.24 U		-
N-Ethyl Perfluorooctanesulfonamidoacetic (EtFOSAA)	-		4.44 U 4.44 U	4.43 U	4.5 U	4.6U	4.71 U 4.71 U	4.39 U 4.39 U	4.16 U	4.42 U	4.36 U 4.36 U	4.37 U	4.33 U 4.33 U	4.3 U	4.39 U	4.54 U	4.25 U 4.25 U	4.37 U 4.37 U	4.24 U 4.24 U		
Perfluoroundecanoic Acid (PFUnA) Perfluorodecanesulfonic Acid (PFDS)			4.44 U	4.43 U	4.50	4.60	4.71 U 4.71 U	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U 4.37 U	4.33 U 4.33 U	4.3 U 4.3 U	4.39 U	4.54 U	4.25 U	4.37 U	4.24 U		
Perfluorodecanesultonic Acid (PFDs) Perfluorododecanoic Acid (PFDoA)		2.000 (2.000)	4.44 U	4.43 U	4.5 U	4.6 U	4.71 U 4.71 U	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U	4.33 U 4.33 U	4.3 U 4.3 U	4.39 U 4.39 U	4.54 U	4.25 U	4.37 U 4.37 U	4.24 U		
N-Methyl Perfluorooctane Sulfonamide (MeFOSA)			22.2 U	22.2 U	22.5 UJ	22.5 UJ	23.6 U	22.0 U	20.8 U	22.1 U	21.8 UJ	21.7 UJ	21.7 U	21.5 U	21.9 U	22.7 U	21.2 U	21.9 U	21.2 U		
Perfluorotrodecanoic Acid (PFTrDA)		1000	4.44 U	4.43 U	4.5 U	4.6 U	4.71 U	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U	4.33 U	4.3 U	4.39 U	4.54 U	4.25 U	4.37 U	4.24 U		
Perfluorotetradecanoic Acid (PFTeDa)			4.44 U	4.43 U	4.5 U	4.6 U	4.71 U	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U	4.33 U	4.3 U	4.39 U	4.54 U	4.25 U	4.37 U	4.24 U		
N-Ethyl Perfluorooctane Sulfonamide (EtFOSA)			22.2 U	22.2 U	22.5 UJ	22.5 UJ	23.6 U	22.0 U	20.8 U	22.1 U	21.8 UJ	21.7 UJ	21.7 U	21.5 U	21.9 U	22.7 U	21.2 U	21.9 U	21.2 U		-
Perfluorogexadecanoic Acid (PFHxDA)	-		4.44 U	4.43 U	4.5 U	4.6 U	4.71 U	4.39 U	4.16 U	4.42 U	4.36 U	4.37 U	4.33 U	4.3 U	4.39 U	4.54 UJ	4.25 U	4.37 U	4.24 U	-	
N-Methyl Perfluorooctanesulfonamido Ethanol (MeFOSE)			22.2 U	22.2 U	22.5 U	23.0 U	23.6 U	22.0 U	20.8 U	22.1 U	21.8 U	21.8 U	21.7 U	21.5 U	21.9 U	22.7 U	21.2 U	21.9 U	21.2 U		
N-Ethyl Perfluorooctanesulfonamido Ethanol (EtFOSE)			22.2 U	22.2 U	22.5 U	23.0 U	23.6 U	22.0 U	20.8 U	22.1 U	21.8 U	21.8 U	21.7 U	21.5 U	21.9 U	22.7 U	21.2 U	21.9 U	21.2 U		
Combination of PFOA and PFOS	70		44.24	20.63 J	2.59 J	492	425	ND	16.46	ND	2.6 J	2.32 J	11.2	221	ND	ND	ND	ND	ND	2	
FIELD PARAMETERS	_	-	1 1	1 14	1.0	0.0	KV/X	0.0	0.4	0.7	0.0	NZA	1.1.1	1.6	4.7	2.0	6.2	0.0	1.4		
Dissolved Oxygen (mg/l) Dxidation Reduction Potential (mV)			-153	-16	1.8	0.9	N/A N/A	0.6	6.1	8.7	-170	N/A N/A	1.1	-103	1.7	3.0	5.3 146	0.6	1.4		
Didation Reduction Potential (mV) DH (standard units)		844	-153	7	-89	-14/	N/A	-1/1	6.6	6.3	-170	N/A	-121	-103	10.5	10.5	6.3	-/1	-87		
Specific Conductance (us/cm)			456	1,120	5,271	829	NZA	338	2,019	215	730	N/A	1,373	941	467	443	98	239	5,267		
Temperature (degrees Celcius)			12	14	14	10	N/A	13	13	8	9	N/A	10	11	10	8	9	9	10		-
			< 5	< 5	< 5	<5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	9	< 5	<5		
urbidity (NTU)																					

2020 Semi-Annual Summary Report

Coakley Landfill Superfund Site - Greenland and North Hampton, New Hampshire

NOTES	
2.	Monitored Zone / Unit identifies the hydrogeological unit within the screened/open interval. The hydrogeology of the site is comprised of four principle geological units include including betrock, glacial till, marine sediments consisting of predominately of silt and clay, and sandy outwash. Bedrock well screened intervals vary as follows: "OBH-BR" wells are standard 6-inch diameter wells with steel casing set in bedrock and open boreholes (typical water supply well construction). "SBR" indicates the screen interval is the upper most section of bedrock. "DBR" is used to differentiate a screened interval that is below the uppermost section of bedrock (i.e.; MW-55 versus MW-5D). "MSC" defines marine silt and clay. Bolded values denote concentration exceeding the USEPA Cleanup Level (CL).
3.	Shaded values denote concentration exceeding the NHDES Ambient Groundwater Quality Standard.
4.	The list of volatile organic compounds (VOCs) provided includes analytes detected in OU-1 or OU-2 since 2006, and all VOCs that have ICLs. ICLs were established for 1,2-dichloropropane and tetrachloroethylene (PCE), however, no detections have been reported at groundwater sampling points included in the long-term monitoring events since 1998. An ICL was established for trans-1,2-dichloroethene, however, no detections have been reported at groundwater sampling points included in the long-term monitoring events since 1999.
5.	An ICL was established for the semi-volatile organic compounds (SVOCs) diethyl phthalate and phenol. However, in May 1998 and April 1999, groundwater samples were submitted for analysis of SVOCs and no exceedances were reported; therefore, SVOCs were removed from the long-term monitoring plan.
6.	Result for groundwater primary/duplicate samples are provided in this table: MW-4/MW-4-DUP, AE-3A/AE-3A-DUP, GZ-105/GZ- 105-DUP, and MW-20D1/MW-20D1-DUP.

ABBREVIATIONS

N/A	Sample was not analyzed/measured	

- J Estimated concentration
- J+ Estimated high
- J- Estimated low
- R Data rejected
- #.## U Not Detected at the reporting detection limit indicated
- UJ Undetected estimated
- NHDES AGQS NH Department of Environmental Services Ambient Groundwater Quality Standard (Env-Or-600, Table 600-1)
- USEPA CL US Environmental Protection Agency Cleanup Level established in 2015 Fifth Explanation of Significant Difference. microsiemens per centimeter

 - ug/L micrograms per liter, parts per billion
 - mg/L milligram per liter, parts per million
 - ng/L nanograms per liter, parts per trillion
 - NTU nephelometric turbidity unit
 - mV millivolt
 - * Field parameter result qualified due to failed QA/QC or suspected issues with measurements, as noted on field
 - ^ The AGQS for xylenes is for total xylene or the sum of all isomers, including: m&p-Xylene and o-Xylene.
 - <# Less than # indicated.
 - 1 Monitoring well resampled for PFAS on June 9 through 11, 2020 due to the initial sample arriving at the lab outside of the
 - 2 NHDES Ambient Groundwater Quality Standards effective September 3, 2020.

Draft Table 4 - Analytical Results for Off-Site Water Supply Wells: Spring 2020 2020 Semi-Annual Summary Report Coakley Landfull Superfund Site Greenland and North Hampton, New Hampshire

SAMPLE IDENTIFICATION	USEPA	NHDES	USEPA	339 BHR	346 BHR	415 BHR	R-3	R-3 DUP	4 SMW	9 SMW	10 SMW	16 SMW	19 SMW	21 SMW	21 SMW DUP	4 ROD	10 ROD	25 FW	*5 BFL	*9 BFL	*15 BFL	340 BHR	463 BHR	7 WKD	8 WKD	27 BR	178A LR	67 NR	14PWC
DATE SAMPLED	CL.	AGQS	MCL	20-May-20	20-May-20	21-May-20	18-May-20	18-May-20	21-May-20	22-May-20	18-May-20	NA	20-May-20	19-May-20	19-May-20	18-May-20	19-May-20	19-May-20	18-May-20	18-May-20	18-May-20	20-May-20	20-May-20	NA	21-May-20	21-May-20	20-May-20	21-May-20	18-May-20
VOLATILE ORGANIC COMPOUNDS								10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			10-10-10-10-10-10-10-10-10-10-10-10-10-1					Colorest Colorest			And the Party of the			Server of the later	And the second second				and the state of the second		
1,4-dioxane (ug/L)	3	0.32		0.28	<0.2	<0.2	0.260	0.210	<0.2	<0.2	<0.2	NŞ	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	NS	<0.2	<0.2	<0.2	<0.2	<0.2
FIELD PARAMETERS		_																											
Temperature (degrees Celcius)				13	11	11	11	NA	12	11	11	NS	10	11	NA.	10	11	10	11	11	11	13	11	NS	10	13	11	10	11
Conductivity (uS/cm)				434	799	463 <0.5	441	NA MA	596	445	479	NS	824	752 <0.5	NA	664	655	439	647	380	539	5.4	774	NS NS	355	576	474	79	147 <0.5
Dissolved Oxygen (mg/L) pH (standard units)			-	1.4	1.4	<0.5	<0.5	NA	<0.5	<0.5	2.8	NS	0.7	<0.5	NA	6.5	0.5	<0.5	<0.5	2.8	0.7	5.4	<0.5	NS	<0.5	7.8	1.1	6	<0.5
Didation/Reduction Potential (mV)				118	6.8	8.4	-164	NA	45	-196	35	NS	-119	-195	NA NA	-65	101	-122	-12	0.5	1.2	0.0	-76	NS	44	110	144	171	-55
Turbidity (NTU)				110	119	02 <5	-104	NA.	40	-190	30	CN N	-119	-190	NA NA	-00	101	-144	-12	101	<5	120	-70	NS	44	<5	7	<5	-99
SAMPLE IDENTIFICATION	USEPA	NHDES		339 BHR	346 BHR	415 BHR	0.3	P.3 DUP	ASMW	9 SMW	10 SMW	16 SMW	19 SMW	21 SMW	21 SMW DUP	4 800	10 BOD	25 FW	5 REI	Q REI	15 BEL	340 BHR	463 849	7 WKD	8 WKD	27 BR	178A LR		14 PWC
DATE SAMPLED	MA	AGOS		11_hm-20	11. Jun 20	9. http://	18.64mr.20	18 May 20	10, 50, 20	22.4444.20	18-14-020	NA	9. Jun. 20	9. hup. 20	9. http://	19-Maur 20	10-hro-20	9-1-0-20	19. Mate 20	9- http://	18-May-20	11-100-20	9-hen-20	NA	11- him-20	10-3-0-20	9- hun-20	10-1-20	19-Mm-20
PER- & POLY-FLUORINATED ALKYL SUBSTANCES BY MODIFIE	ED 537 - (r		_	THOULEAD	TT-Softwo	a a a a a a a a a a a a a a a a a a a	10-11-11-20	10-11-01-20	10-0011-20		10-1101-20	144	0-0411-20	9-90(1-20	87091720	20116720	10 2011 20	2 XII 20	101-01-00	J Juli Au	10 1457 10	11 301 10	3 Jun 20	199	11 2011 20	10.5017 20	3 3617 20	10 301 40	ad hay ad
Perfluorobutanoic Acid (PFBA)				1.79 J	4.28 U	4.31 U	1.82 J	2.14 J	4.31 U	4.22 U	1.6 J	NS	4.46 U	4.37 U	4.33 U	2.18]	4.57 U	4.37 U	1.19.3	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 U	4.28 U	1.99]	4.33 U	4.37 U
Perfluoropentanoic acid (PFpEA)	-	-		3.23 J	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	4.18 U	4.57 U	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 U	2.031	3.10 J	4.33 U	4.37 U
Perfluorobutanesulfonic acid (PFBS)				2.04 J	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	3.32 J	4.20 3	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 UJ	4.28 U	2.04 3	4.33 U	4.37 U
Perfluorohexanoix Acid (PFHxA)	-			4.57 J	4.28 UJ	4.31 UJ	4.32 U	4.37 U	4.31 UJ	4.22 U	4.41 U	NS	4.46 UJ	4.37 UJ	4.33 LU	4.18 U	4.57 UJ	4.37 UJ	4.41 U	4.36 UJ	4.34 U	4.39 UJ	4.30 UJ	NS	4.56 UJ	4.28 UJ	4.46 UJ	4.33 UJ	4.37 U
Perfluoroheptanoic acid (PFHpA)	-	-		6.47	4.28 U	4.31 UJ	1.73 J	4.37 U	0.886 J	4.22 U	4.41 U	NS	4.46 U	4.37 UJ	4.33 W	4.18 U	4.57 W	4.37 U	4.41 U	4.36 UJ	4.34 U	4.39 U	4.30 U	NS	4.56 UJ	4.28 U	1.91 J	4.33 W	4.37 U
Perfluorohexanesulfonic acid (PFHxS)		18**		1.53 J	4.28 U	2.19 J	4.32 U	4.37 U	1.40 J	2.71 J	1.54 J	NS	4.46 U	4.37 U	4.33 W	2.15 J	1.46 J	4.37 U	4.41 U	1.76 J	4.34 U	4.39 U	6.97	NS	1.16 J	4.28 U	4.46 UJ	4.33 U	4.37 U
1H, 1H, 2H, 2H-Perfluorooctanesulfonic Acid (6:2FTS)	-	-		4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	4.18 U	4.57 U	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 U	4.28 U	4.46 U	4.33 U	4.37 U
Perfluorooctanoic acid (PEOA)	70	12**		16.3	1.56 J	3.15 J	4.32	4.58	5.87	4.87	1.36 J	NS	4.12 J	1.71 J	1.54 J	4.13 3	3.59 3	3.34 J	1.86 J	4.09 3	5.93	2,70 3	6.46	NS	1.94 J	6.11	7.66	1.27 3	3.06 3
Perfluoroheptanesulfonic Acid (PFHpS)		-		4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 UJ	4.37 UJ	4.33 W	4.18 U	4.57 U	4.37 U	4.41 U	4.36 UJ	4.34 U	4.39 U	4.30 U	NS	4.56 UJ	4.28 U	4.46 UJ	4.33 UJ	4.37 U
Perfluorononanoic acid (PENA)		11**		4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	4.18 U	4.57 U	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 U	4.28 U	4.46 U	4.33 U	4.37 U
Perfluorooctanesulfonamide (PFOSA)	***	-		6.65	18.5	10.1	11.8 J	27.4 J	63.4	23.4	15.3	NS	70.5	5.29	6.51	54.2	32	21.3	16.6	73.8	121	29	16.1	NS	11.3	19.3	14.1	37.8	30.3
Perfluorooctanesulfonic (PFOS)	70	15**		1.01 J	1.04 J	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 UJ	4.37 UJ	4.33 W	4.18 U	4.57 U	4.37 U	4.42	4.96 J	0.895 1	4.39 U	6.17	NS	4.56 UJ	5.36	2.31 J	4.33 UJ	4.37 U
Perfluorodecanoic Acid (PFDA)				4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	4.18 U	4.57 U	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 U	4.28 U	4.46 U	4.33 U	4.37 U
1H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid (8:2FTS)	-	-		4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	4.18 U	4.57 U	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 U	4.28 U	4.46 U	4.33 U	4.37 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA				4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	4.18 U	4.57 U	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 U	4.28 U	4.46 U	4.33 U	4.37 U
N-Ethyl Perfluorooctanesulfonamidoacetic (EtFOSAA)				4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	4.18 U	4.57 U	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 U	4.28 U	4.46 U	4.33 U	4.37 U
Perfluoroundecanoic Acid (PFUnA)				4.47 U	4.28 U	4.31 UJ	4.32 U	4.37 U	4.31 UJ	4.22 U	4.41 U	NS	4.46 UJ	4.37 U	4.33 W	4.18 U	4.57 UJ	4.37 U	4.41 U	4.36 UJ	4.34 U	4.39 UJ	4.30 U	NS	4.56 UJ	4.28 UJ	4.46 UJ	4.33 UJ	4.37 U
Perfluorodecanesulfonic Acid (PFDS)	-	-		4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 UJ	4.37 UJ	4.33 W	4.18 U	4.57 U	4.37 U	4.41 U	4.36 UJ	4.34 U	4.39 U	4.30 U	NS	4.56 UJ	4.28 U	4.46 UJ	4.33 UJ	4.37 U
Perfluorododecanoic Acid (PFDoA)	-	-		4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	4.18 U	4.57 U	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 U	4.28 U	4.46 U	4.33 U	4.37 U
N-Methyl Perfluorooctane Sulfonamide (MeFOSA)		-		22.3 U	21.4 U	21.6 U	21.8 UJ	21.5 UJ	21.5 U	21.1 U	22.1 UJ	NS	22.3 U	21.4 UJ	22.6 W	22.6 UJ	22.9 U	21.8 U	22.0 UJ	21.8 U	21.8 UJ	22.0 U	21.5 U	NS	22.8 U	21.4 U	22.3 U	21.6 U	21.1 UJ
Perfluorotrodecanoic Acid (PFTrDA)		1		4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	4.18 U	4.57 U	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 U	4.28 U	4.46 U	4.33 U	4.37 U
Perfluorotetradecanoic Acid (PFTeDa)		-		4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 U	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	4.18 U	4.57 U	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS	4.56 U	4.28 U	4.46 U	4.33 U	4.37 U
N-Ethyl Perfluorooctane Sulfonamide (EtFOSA)	-	ł		22.3 U	21.4 U	21.6 U	21.8 UJ	21.5 UJ	21.5 U	21.1 U	22.1 UJ	NS	22.3 U	21.4 UJ	22.6 W	22.6 UJ	22.9 U	21.8 U	22.0 UJ	21.8 U	21.8 UJ	22.0 U	21.5 U	NS	22.8 U	21.4 U	22.3 U	21.6 U	21.1 UJ
Perfluorogexadecanoic Acid (PFHxDA)		-		4.47 U	4.28 U	4.31 U	4.32 U	4.37 U	4.31 UJ	4.22 U	4.41 U	NS	4.46 U	4.37 U	4.33 U	4.18 U	4.57 U	4.37 U	4.41 U	4.36 U	4.34 U	4.39 U	4.30 U	NS.	4.56 U	4.28 U	4.46 U	4.33 U	4.37 U
N-Methyl Perfluorooctanesulfonamido Ethanol (MeFOSE)		-		22.3 U	21.4 U	21.6 U	21.6 U	21.8 U	21.5 U	21.1 U	22.1 U	NS	22.3 U	21.8 U	21.7 U	20.9 U	22.9 U	21.8 U	22.1 U	21.8 U	21.7 U	22.0 U	21.5 U	NS	22.8 U	21.4 U	22.3 U	21.6 U	21.9 U
N-Ethyl Perfluorooctanesulfonamido Ethanol (EtFOSE)		-		22.3 U	21.4 U	21.6 U	21.6 U	21.8 U	21.5 U	21.1 U	22.1 U	NS	22.3 U	21.8 U	21.7 U	20.9 U	22.9 U	21.8 U	22.1 U	21.8 U	21.7 U	22.0 U	21.5 U	NS	22.8 U	21.4 U	22.3 U	21.6 U	21.9 U
Combination of PFOA and PFOS	70	-		17.31 J	2.60 J	3.15 J	4.32	4.58	5.87	4.87	1.36 J	NS	4.12 J	1.71 J	1.54 J	4.13 J	3.59 3	3.34 J	6.28 J	9.07 3	6.825 J	2.70 J	12.63	NS	1.94 J	11.47	9.97 J	1.27 J	3.06 J

TABLE NOTES:

TABLE ARBONATION:
TABLE ARBONATION:
TABLE ARBONATION:
AN = Not Anapara
Nat = Not An

NHDES AGOS = NHDES Ambiert Groundweter Quality Standard USEPA ACL = USEPA Primary Dinking Vater Standard USEPA CL = USEPA Consortware Quality Standard Beld values devote contentiation exceeding the USEPA Clearup Level (CL). Standard values devote contentiation exceeding the NHDES Ambient Groundweter Quality Standard Post = Post Testimet sample collected to smerica and mangarese. • Mangarese contentiations compared to USEPA A/cl 312 mgL.

BFL = Berry Farm Lane BFR = P creating Hill Road BFR = Birch Road FW = Fails Way LR = LafayetR Road NR = North Road PWC = P inewaod Circle RCD = Ridgecrest Drive RCD = Red Que Khrive R-3 = 368 Breakfast Hill Road SMW = Stone Madow Way WKD = Woodknoll Drive

Draft Table 5 - Summary of Surface Water Analytical Data: Spring 2020 2020 Semi-Annual Summary Report Coakley Landfull Superfund Site Greenland and North Hampton, New Hampshire

AMPLE IDENTIFICATION	NHDES Surfac	e Water Standard Chronic	SW-4 5/14/2020	SW-5 5/14/2020	SW-5Dup 5/14/2020	SW-103 5/14/2020	SW-110 5/14/2020	SW-111 5/15/2020	SW-LR 5/14/2020	SW-BB1 5/14/2020	SW-BB2 5/15/2020				
OLATILE ORGANIC COMPOUNDS BY 8260B (ug/L)	Acute	Chronic	5/14/2020	5/14/2020	5/14/2020	5/14/2020	5/14/2020	5/15/2020	5/14/2020	5/14/2020	5/15/2020	4			
cetone			10 U	10 R	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1			
ETALS BY 200.8 (mg/L)															
OTAL OR DISSOLVED (METALS ONLY)			Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	Dissolved	1			
luminum	0.75	0.087	0.061	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.15	0.05 U	0.05 U				
Intimony	9	1.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U				
krsenic*	0.34	0.15	0.001 U	0.0043	0.0046	0.001 U	0.001 U	0.001 U	0.001 U	0.0017	0.001 U				
tarium			0.0043	0.024	0.027	0.0077	0.0048	0.0066	0.0073	0.0094	0.0065	-			
leryllium admium*	0.13	0.0053	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-			
admium* Calcium	0.00039	0.00021	0.001 U 9.9 J+	0.001 U 25 J+	0.001 U 29 J+	0.001 U 25 J+	0.001 U 15 J+	0.001 U 11 J+	0.001 U 14 J+	0.001 U 14 J+	0.001 U 21 J+	4			
aicium			9.9 J+	25 J+	29 J+	25 J+	15 J+	11 J+	14 J+	14 J+	21 J+	-			
Chromium (Cr+3 + Cr+6)*	0.152 (Cr+3) 0.016 (Cr+6)	0.0198 (Cr+3) 0.011 (Cr+6)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U				
Cobalt			0.001 U	0.0017	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.0015	0.001 U	1			
Copper*	0.0029	0.0023	0.013	0.001 U	0.001 U	0.0011	0.001 U	0.0015	0.001 U	0.001 U	0.0016	1			
on		1	0.15	3.8	4.6	0.15	0.32	0.36	0.34	1.2	0.21	1			
ead*	0.0105	0.00041	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	1			
fagnesium			2.9	5.9	6.5	6.1	3.6	3.0	3.6	3.5	5.1	1			
langanese	(0.061	0.93	1.1	0.019	0.13	0.14	0.079	0.40	0.068	1			
fercury*	0.0014	0.00077	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U				
lickel*	0.12	0.0133	0.0011	0.0029	0.003	0.0023	0.0014	0.0021	0.0015	0.0015	0.0044	1			
otassium			1.5	6.8	6.7	6.8	2.1	1.8	1.4	2.2	2.8	1			
elenium	-	0.005	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	1			
Silver*	0.0002		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	4			
lodium			9	19	18	16	19	26	23	20	21				
hallium	1.4	0.04	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	-			
'anadium linc'	0.03	0.03	0.005 U 0.0095	0.005 U 0.005 U	0.005 U 0.005 U	0.005 U 0.005 U	0.005 U 0.0057	0.005 U 0.0067	0.005 U 0.005 U	0.005 U 0.005 U	0.005 U 0.0072	1			
.4-Dioxane by 8260B SIM ug/L	0.03	0.03	0.0095	0.005 U	0.005 0	0.005 U	0.0057	0.0067	0.005 U	0.005 U	0.0072				
4-Dioxane by 6260B Sim ugr.	-		0.2	1.7	1.8	0.86	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	4			
ENERAL CHEMISTRY			0.2	1.4	1.0	0.00	0.2 0	0.20	0.2 0	0.2.0	0.2 0	USEPA Scree	ning Levels	USEPA Scn	ening
	2000 C														
												Adult	Child	Adult	Ch
vmmonia** (mg/L)	pH D	ependent	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	Adult Recreator	Child Recreator	Adult Recreator	
mmonia** (mg/L) PERFLUORINATED CHEMICALS BY MODIFIED 537 - (ng/L)	pH D	ependent	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		Recreator	Recreator	Recr
PERFLUORINATED CHEMICALS BY MODIFIED 537 - (ng/L) Perfluorobutanoic Acid (PFBA)	pH D	ependent	0.05 U 5.4	0.05 U 45.4	0.05 U 49.2	0.05 U 32.9	0.05 U 10.3	0.05 U 5.9	0.05 U 3.49 J	0.05 U 8.82	0.05 U 19	Recreator	Recreator	Recreator	Recr 20 Day
PERFLUORINATED CHEMICALS BY MODIFIED 537 - (ng/L) Perfluorobutanoic Acid (PFBA) Perfluoropentanoic acid (PFPEA)			5.4 8.28	45.4 91.7	49.2 92.2	32.9 77.5	10.3 22.9	5.9 7.64	3.49 J 4.02 J	8.82 16.7	19 39.2	Recreator EF = 45	Recreator 5 Days	Recreator EF = 1	Recr 20 Days
ERFLUORINATED CHEMICALS BY MODIFIED 537 - (ng/L) Perfluorobutanoic Acid (PFBA) Perfluoropentanoic acid (PFpEA) Perfluorobutanesulfonic acid (PFBS)	-		5.4 8.28 4.28 U	45.4 91.7 4.33	49.2 92.2 3.37 J	32.9 77.5 3.27 J	10.3 22.9 2.20 J	5.9 7.64 4.53 U	3.49 J 4.02 J 4.42 U	8.82 16.7 4.48 U	19 39.2 2.99 J	Recreator	Recreator 5 Days	Recreator	Recr 20 Day
EEFLUORNATED CHEMICALS BY MODIFIED 537 - (ng/L) 2erfluorobutanoic Acid (PFBA) Perfluorobutanois acid (PFBA) Perfluorobutanesulfonic acid (PFBS) 2erfluorobutanosulfonic acid (PFBS)	-		5.4 8.28 4.28 U 19.5	45.4 91.7 4.33 155	49.2 92.2 3.37 J 135	32.9 77.5 3.27 J 108	10.3 22.9 2.20 J 28.4	5.9 7.64 4.53 U 11.7	3.49 J 4.02 J 4.42 U 4.92	8.82 16.7 4.48 U 24.5	19 39.2 2.99 J 51.5	Recreator EF = 45 18,300,000 	Recreator 5 Days 2,030,000	Recreator EF = 1 6,850,000 	Recr 20 Day: - - 760
VERFLUGRNATED CHEMICALS BY MODIFIED 537 - (ng/L) Perfluorobutanoic Acid (PFBA) Perfluoropentanois caid (PFPEA) Perfluorobutanesulfonic acid (PFBS) Perfluorobutanesulfonic acid (PFHXA) Perfluorobetanoic acid (PFHA)	-		5.4 8.28 4.28 U 19.5 41.7	45.4 91.7 4.33 155 276 J	49.2 92.2 3.37 J 135 282	32.9 77.5 3.27 J 108 219	10.3 22.9 2.20 J 28.4 67.6	5.9 7.64 4.53 U 11.7 23.6	3.49 J 4.02 J 4.42 U 4.92 6.27	8.82 16.7 4.48 U 24.5 54.1	19 39.2 2.99 J 51.5 111	Recreator EF = 45 18,300,000	Recreator 5 Days 2,030,000 	Recreator EF = 1	Cl Recr 20 Days - - 760 -
EIFFLUGRNATED CHEMICLS. BY MODIFIED 537 - (ng/L) Perfluoroblanck Acid (PEBA) Perfluoroblancesulfonic acid (PFpEA) Perfluoroblancesulfonic acid (PFRS) Perfluoroblancesulfonic acid (PFHA) Perfluoroheptanoic acid (PFHA) Perfluoroheptanoic acid (PFHS)	-		5.4 8.28 4.28 U 19.5 41.7 7.23	45.4 91.7 4.33 155 276 J 10.6 J	49.2 92.2 3.37 J 135 282 14.9 J	32.9 77.5 3.27 J 108 219 11.2	10.3 22.9 2.20 J 28.4 67.6 5.64	5.9 7.64 4.53 U 11.7 23.6 1.57 J	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J	8.82 16.7 4.48 U 24.5 54.1 5.66	19 39.2 2.99 J 51.5 111 8.78	Recreator EF = 45 18,300,000 	Recreator 5 Days 2,030,000	Recreator EF = 1 6,850,000 	Recr 20 Day: - - 760 - -
EEFLUGRAFTED CHEMICALS BY MODIFIED \$37 - (ng/L) Perfluorobutanoic Acid (PFBA) Perfluorobutanesulfonic acid (PFDEA) Perfluorobutanesulfonic acid (PFDS) Perfluorohexanesulfonic acid (PFHA) Perfluorohexanesulfonic acid (PFHAS) Herfluorohexanesulfonic acid (PFHxS) Herfluorohexanesulfonic Acid (6:2FTS)			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U	32.9 77.5 3.27 J 108 219 11.2 4.67 U	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U	5.9 7.64 4.53 U 11.7 23.6 1.57 J 4.53 U	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U	8.82 16.7 4.48 U 24.5 54.1 5.66 4.48 U	19 39.2 2.99 J 51.5 111 8.78 4.46 U	Recreator EF = 45 18,300,000 	Recreator 5 Days 	Recreator EF = 1 	Recr 20 Day: - - 760 - - - -
EIFFLUGRNATED CHEMICALS BY MODIFIED 537 - (ng/L) Perfluoroblanck Acid (PEBA) Perfluoroblancesulfonic acid (PFpEA) Perfluoroblancesulfonic acid (PFhS) Perfluoroblancesulfonic acid (PFhA) Perfluoroblancesulfonic acid (PFhA) Perfluoroblancesulfonic acid (PFhA) H, 1H, 2H, 2H-Perfluorocctanesulfonic Acid (6:2FTS) Perfluoroblance acid (PFAA)			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 709 J	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U 719	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160	5.9 7.64 4.53 U 11.7 23.6 1.57 J 4.53 U 50.1	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 13.6	8.82 16.7 4.48 U 24.5 54.1 5.66 4.48 U 118	19 39.2 2.99 J 51.5 111 8.78 4.46 U 280	Recreator EF = 45 18,300,000 18,300	Recreator 5 Days 2,030,000 2,030	Recreator EF = 1 6,850,000 6,850	Recr 20 Days - - 760 - - - - - - - - 70
EFFLUGRNATED CHEMICALS BY MODIFIED \$37 - (ng/L) 2erfluorobutanoic Acid (PFBA) Perfluorobutanois acid (PFDEA) Perfluorobutanesulfonic acid (PFES) Perfluorobeptanoic acid (PFHAA) Perfluorobeptanoic acid (PFHAA) Perfluorobeptanoic acid (PFHAS) IH, 1H, 2H, 2H-Perfluorooctaneseufonic Acid (6:2FTS) Perfluorocotanoic acid (PFOA) Perfluorobectanesulfonic Acid (PFHAS)			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 709 J 6.94	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U 719 8.14	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594 7.53	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160 2.11 J	5.9 7.64 4.53 U 11.7 23.6 1.57 J 4.53 U 50.1 4.53 U	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 13.6 4.42 U	8.82 16.7 4.48 U 24.5 54.1 5.66 4.48 U 118 1.90 J	19 39.2 2.99 J 51.5 111 8.78 4.46 U 280 2.47 J	Recreator EF = 45 18,300,000 18,300 	Recreator 5 Days 2,030,000 2,030 2,030 	Recreator EF = 1 6,850,000 6,850 	Recr 20 Days - - 760 - - - - - - - - - - - - - - - - - - -
EIFFLUGRNATED CHEMICALS BY MODIFIED 537 - (ng/L) Perfluoroblancio Acid (PFBA) Perfluoroblancia Acid (PFBA) Perfluorobentance Acid (PFFRA) Perfluorobeptancia acid (PFFRA) Perfluorobeptancia acid (PFFRA) Perfluorobeptance acid (PFHAS) H, 1H, 2H, 2H-Perfluorocotanesuffonia Acid (6:2FTS) Perfluorobeptance acid (PFAO) Perfluorobeptance acid (PFAO) Perfluorobeptance acid (PFHAS)			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 709 J 6.94 424 J	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U 719 8.14 427	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594 7.53 399	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160 2.11 J 81	5.9 7.64 4.53 U 11.7 23.6 1.57 J 4.53 U 50.1 4.53 U 21	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 13.6 4.42 U 3.21 J	8.82 16.7 4.48 U 24.5 54.1 5.66 4.48 U 118 1.90 J 69.2	19 39.2 2.99 J 51.5 111 8.78 4.46 U 280 2.47 J 162	Recreator EF = 45 18,300,000 18,300	Recreator 5 Days 2,030,000 2,030 2,030 	Recreator EF = 1 	Recr 20 Days - - 760 - - - - - - 70 - - - - - - - - - - - -
EFFLUGRAFTED CHEMICALS BY MODIFIED \$37 - (ng/L) 2erfluorobutanoic Acid (PFBA) Perfluorobutanoic acid (PFEA) Perfluorobutanesulfonic acid (PFHA) Perfluoroheptanoic acid (PFHA) Perfluoroheptanoic acid (PFHA) Perfluoroheptanoic acid (PFHA) Perfluoroheptanoic acid (PFHA) Perfluoroheptanoic acid (PFHA) Perfluoroheptanoic acid (PFAS) HI, HJ, 2H, 2H-Perfluorocctanesulfonic Acid (6:2FTS) Perfluoroncanoic acid (PFDA) Perfluoroncanoic acid (PFNA) Perfluoroncanoic acid (PFNA) Perfluoroncanoic acid (PFNA)			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 709 J 6.94 424 J 4.63 U	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U 719 8.14 427 7.86	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594 7.53 399 4.67 U	10.3 22.9 2.20 J 2.8.4 67.6 5.64 4.74 U 160 2.11 J 81 24.2	5.9 7.64 4.53 U 11.7 2.3.6 1.57 J 4.53 U 50.1 4.53 U 21 15.6	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 13.6 4.42 U 3.21 J 17.4	8.82 16.7 4.48 U 24.5 5.41 5.66 4.48 U 118 1.90 J 69.2 3.59 J	19 39.2 2.99 J 51.5 111 8.78 4.46 U 280 2.47 J 162 17.2	Recreator EF = 45 18,300,000 18,300	Recreator 5 Days 2,030,000 2,030,000 2,030 2,030 	Recreator EF = 1 	Recr 20 Day:
EFFLUGRAFTED CHEMICALS BY MODIFIED \$37 - (ng/L) Perfluoropbutanoic Acid (PFBA) Perfluoropbutanoic acid (PFpEA) Perfluoropbutanesulfonic acid (PFBS) Perfluorobexanesulfonic acid (PFHA) Perfluorobexanesulfonic acid (PFHA) Perfluorobexanesulfonic acid (PFHA) Perfluorobexanesulfonic acid (PFHAS) H, 11, 24, 24, 24–Perfluorootanesulfonic Acid (62-PTS) Perfluoroctanoic acid (PFOA) Perfluoroctanoic acid (PFA)			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 35.6	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 709 J 6.94 424 J 4.63 U 1,080 J	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U 719 8.14 427 7.86 1,060	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594 7.53 399 4.67 U 1,080	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160 2.11 J 81 24.2 149	5.9 7.64 4.53 U 11.7 23.6 1.57 J 4.53 U 50.1 4.53 U 21 15.6 43.7	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 13.6 4.42 U 3.21 J 17.4 3.45 J	8.82 16.7 4.48 U 24.5 54.1 5.66 4.48 U 118 1.90 J 69.2 3.59 J 91.1	19 39.2 2.99 J 51.5 111 8.78 4.46 U 280 2.47 J 162 17.2 300	Recreator EF = 45 18,300,000 18,300 18,300 18,300 18,300 18,300	Recreator 5 Days 2,030,000 2,030,000 2,030 2,030 2,030	Recreator EF = 1 	Recr 20 Days
EIFFLUGRAFTED CHEMICALS BY MODIFIED 837 - (ng/L) Parfluorobutanoic Acid (PFBA) Parfluorobutanoic acid (PFPA) Parfluorobutanesulfonic acid (PFHA) Parfluoroheptanoic acid (PFHA) Parfluoroheptanoic acid (PFHA) Parfluoroheptanoic acid (PFHA) Parfluoroheptanoic acid (PFHA) Parfluoroheptanesulfonic Acid (PFHS) H, 1H, 2H, 2H, 2H-Perfluorocotanesulfonic Acid (6:2FTS) Parfluoroheptanesulfonic Acid (PFHA) Parfluoroheptanesulfonic Acid (PFHA) Parfluorocotanesulfonic Acid (PFAA) Parfluorocotanesulfonic Acid (PFOS) Parfluorocotanesulfonic (PFOS) Parfluorocotanesulfonic Acid (PFOS)			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 35.6 4.28 U	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 709 J 6.94 424 J 4.63 U 1.060 J 259 J	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U 719 8.14 427 7.86 1,060 186 J	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594 7.53 399 4.67 U 1,080 291	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160 2.11 J 81 24.2 149 19.9	5.9 7.64 4.53 U 11.7 23.6 1.57 J 4.53 U 50.1 4.53 U 21 15.6 4.37 4.76	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 13.6 4.42 U 3.21 J 17.4 3.45 J 4.42 U	8.82 16.7 4.48 U 24.5 54.1 5.66 4.48 U 118 1.90 J 69.2 3.59 J 91.1 10.4	19 39.2 2.99 J 51.5 111 8.78 4.46 U 280 2.47 J 162 17.2 300 62.6	Recreator EF = 45 18,300,000 18,300	Recreator 5 Days 2,030,000 2,030,000 2,030 2,030 	Recreator EF = 1 	Recr 20 Days - - 760 - - - - - - - - - - - - - - - - - - -
EFFLUGRNATED CHEMICALS BY MODIFIED \$37 - (ng/L) Parfluoroputanoic Acid (PFBA) Parfluoroputanoic acid (PFpEA) Parfluoroputanesulfonic acid (PFFBS) Parfluoroheptanoic acid (PFHS) Parfluoroheptanoic acid (PFHS) Parfluoroctanoic acid (PFNA) Parfluoroctanosulfonic Acid (PFNS) Parfluoroctanesulfonic (PFOS) Parfluoroctanesulfonic (PFOS) Parfluoroctanesulfonic Acid (PSOS) PARFINES PARFINES PARFINES PARFINES PARFIN	and and and and and and and and and and		5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 35.6 35.6 4.28 U 4.28 U	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 709 J 6.94 4.63 U 1.080 J 259 J 4.63 U	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U 719 8.14 427 7.86 1,060 186 J 4.52 U	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594 7.53 399 4.67 U 1,080 291 4.67 U	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160 2.11 J 81 24.2 149 19.9 4.74 U	5.9 7.64 4.53 U 11.7 23.6 1.57 J 4.53 U 20.1 4.53 U 21 15.6 4.37 4.76 4.53 U	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 13.8 4.42 U 3.21 J 17.4 3.45 J 4.42 U 4.42 U 4.42 U	8.82 16.7 4.48 U 24.5 54.1 5.66 4.48 U 118 1.90 J 69.2 3.59 J 91.1 10.4 4.48 U	19 39.2 2.99 J 51.5 111 8.78 4.46 U 280 2.47 J 162 17.2 300 62.6 4.46 U	Recreator EF = 45 	Recreator 5 Days 2,030,000 2,030 	Recreator EF = 1 6,850,000 6,850 6,850 6,850 	Recr 20 Days
EIFFLUGRIATED CHEMICALS BY MODIFIED 837 - (ng/L) Perfluorobutanoic acid (PFpEA) Perfluorobutanes/Lacid (PFpEA) Perfluorobutanes/Lacid (PFHS) Perfluorobeptanoic acid (PFHAA) Perfluorobeptanoic acid (PFHAA) Perfluorobeptanoic acid (PFHAS) HI, HI, 2H, 2H-Perfluorocatanes/Local (6:2FTS) Perfluorobeptanes/Local (PFAS) Perfluorocatanes/Local (PFAA) Perfluorocatanes/Local (PFAA) Perfluorocatanes/Local (PFOA) Perfluorocatanes/Local (PFOA) Perfluorocatanes/			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 35.6 4.28 U	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 709 J 6.94 424 J 4.63 U 1.060 J 259 J	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U 719 8.14 427 7.86 1,060 186 J	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594 7.53 399 4.67 U 1,080 291	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160 2.11 J 81 24.2 149 19.9	5.9 7.64 4.53 U 11.7 23.6 1.57 J 4.53 U 50.1 4.53 U 21 15.6 4.37 4.76	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 13.6 4.42 U 3.21 J 17.4 3.45 J 4.42 U	8.82 16.7 4.48 U 24.5 54.1 5.66 4.48 U 118 1.90 J 69.2 3.59 J 91.1 10.4	19 39.2 2.99 J 51.5 111 8.78 4.46 U 280 2.47 J 162 17.2 300 62.6	Recreator EF = 45 	Recreator Days 2,030,000 2,030,000 2,030 2,030 2,030 2,030 2,030 2,030	Recreator EF = 1 6,850,000 6,850 6,850 -	Recr 20 Day:
EIFFLUGRAFTED CHEMICALS BY MODIFIED 837 - (ng/L) Parfluorobutanoic Acid (PFBA) Parfluorobutanoic acid (PFPA) Parfluorobutanesulfonic acid (PFHA) Parfluoroheptanoic acid (PFHA) Parfluoroheptanoic acid (PFHA) Parfluoroheptanoic acid (PFHA) Parfluoroheptanoic acid (PFHA) Parfluoroheptanesulfonic Acid (PFHS) H, 1H, 2H, 2H, 2H-Perfluorocotanesulfonic Acid (6:2FTS) Parfluoroheptanesulfonic Acid (PFHA) Parfluoroheptanesulfonic Acid (PFHA) Parfluorocotanesulfonic Acid (PFAA) Parfluorocotanesulfonic Acid (PFOS) Parfluorocotanesulfonic (PFOS) Parfluorocotanesulfonic Acid (PFOS)			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 1.67 J 39.6 8.76 35.6 4.28 U 4.28 U 4.28 U	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 709 J 6.94 424 J 4.63 U 1.060 J 259 J 4.63 U	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U 719 8.14 4.52 U 7,86 1,060 186 J 14.52 U 4.52 U	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594 7.53 399 4.67 U 1,080 291 4.67 U 4.67 U	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160 2.11 J 81 24.2 149 19.9 4.74 U 4.74 U	5.9 7.64 4.53 U 11.7 23.6 1.57 J 4.53 U 50.1 4.53 U 21 15.6 4.53 U 4.53 U 4.53 U	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 13.6 4.42 U 3.21 J 17.4 3.45 J 4.42 U 4.42 U 4.42 U	8.82 16.7 4.48 U 24.5 54.1 5.66 4.48 U 118 1.90 J 69.2 3.59 J 91.1 10.4 4.48 U 4.48 U	19 39.2 2.99 J 51.5 111 8.78 4.46 U 280 2.47 J 162 17.2 300 62.6 4.46 U 4.46 U	Recreator EF = 45 	Recreator 5 Days 2,030,000 2,030 2,030 2,030 2,030 2,030 2,030	Recreator EF = 1 6,850,000 6,850 6,850 -	Recr 20 Day:
EFFLUGRAFTED CHEMICALS BY MODIFIED \$37 - (ng/L) Parfluorobutanoic Acid (PFBA) Parfluorobutanoic acid (PFDEA) Parfluorobutanesulfonic acid (PFHS) Parfluoroheptanoic acid (PFHS) Parfluoroheptanoic acid (PFHS) Parfluorocatanesulfonic acid (PFHS) H, 1H, 2H, 2H-Perfluorocctanesulfonic Acid (6:2FTS) Parfluorocctanois acid (PFNA) Parfluorocctanesulfonic Acid (PFNS) Parfluorocctanesulfonic Acid (PFNS) Parfluorocctanesulfonic Acid (PFNS) Parfluorocctanesulfonic Acid (PFOS) Parfluorocctanesulfonic Acid (8:2FTS) Parfluorocctanesulfonic Acid (8:2FTS) H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid (8:2FTS) H, 1H, 2H, 2H-Perfluorocctanesulfonic Acid (8:2FTS) H, 1H, 2H, 2H-Perfluorocctanesulfonic Acid (8:2FTS) H-Mettyl Parfluorocctanesulfonic Acid (AeCOSAA) H-Mettyl Parfluorocctanesulfonic Acid (AeCOSAA)			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 35.6 4.28 U 4.28 U 4.28 U 4.28 U	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U 719 8.14 4.52 U 4.52 U 4.52 U 4.52 U	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594 7.53 399 4.67 U 4.67 U 4.67 U 4.67 U	10.3 22.9 2.20 J 2.84 67.6 5.64 4.74 U 160 2.11 J 81 24.2 149 19.9 4.74 U 4.74 U 4.74 U	5.9 7.64 4.53 U 11.7 23.6 1.57 J 4.53 U 50.1 4.53 U 21 15.6 43.7 4.76 4.53 U 4.53 U 4.53 U	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 13.6 4.42 U 3.21 J 17.4 3.45 J 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U	8.82 16.7 4.48 U 24.5 54.1 5.66 4.48 U 118 1.90 J 69.2 3.59 J 91.1 10.4 4.48 U 4.48 U 4.48 U	19 39.2 2.99 J 51.5 111 8.78 4.46 U 2.80 2.47 J 162 17.2 300 62.6 4.46 U 4.46 U 4.46 U	Recreator EF = 45 	Recreator 5 Days 2.030.000 2.030.000 2.030 2.030 2.030 2.030 	Recreator EF = 1 6,850,000 6,850 6,850 -	Recr 20 Days
EFFLUGRAFTED CHEMICALS BY MODIFIED \$37 - (ng/L) 2erfluorobutanoic Acid (PFBA) Perfluorobutanoic acid (PFDEA) Perfluorobutanesulfonic acid (PFHS) Perfluorobeptanoic acid (PFDS) Perfluorobeptanoic acid (PFDA) Hi, 1H, 2H, 2H-Perfluorobecanesulfonic Acid (8:2FTS) HAteltyl Perfluorobectanesulfonamidoacetic Acid (MeFOSAA) Perfluorobecanesulfonamidoacetic Acid (MeFOSAA) Perfluorobecanesulfonamidoacetic Acid (PEDS) Perfluorobecanesulfonamidoacetic Acid (PEDS) Perfluorobecanesulfona Acid (PFDS) Perfluorobecanesulfona Acid PFDS) Perfluorobecanesulfona Acid PFDS Phy			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 35.6 35.6 8.76 35.6 8.76 35.6 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 709 J 6.94 424 J 4.63 U 259 J 4.63 U 4.63 U 4.63 U 4.63 U 2.0.1 J	49.2 92.2 3.37 J 135 282 14.9 J 4.52 U 719 8.14 4.27 7.86 1.060 186 J 4.52 U 4.52 U 4.52 U 7.94 J	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594 7.53 399 4.67 U 1,080 291 4.67 U 4.67 U 4.67 U 28.7	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160 2.11 J 81 24.2 149 19.9 4.74 U 4.74 U 4.74 U 4.74 U	5.9 7.64 4.53 U 11.7 2.3.6 1.57 J 4.53 U 50.1 4.53 U 21 15.6 4.53 U 4.53 U 4.53 U 4.53 U 4.53 U 4.53 U	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 13.6 4.42 U 3.21 J 17.4 3.45 J 17.4 3.45 J 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U	8.82 16.7 4.48 U 24.5 54.1 5.66 4.48 U 118 1.90 J 69.2 3.59 J 91.1 10.4 4.48 U 4.48 U 4.48 U 4.48 U	19 39.2 2.99 J 51.5 111 8.78 4.46 U 2.80 2.47 J 162 17.2 300 62.8 4.46 U 4.46 U 4.46 U 4.46 U	Recreator EF = 45 18.300 18.300 18.300 18.300 	Recreator 5 Days 	Recreator EF = 1 6,850,000 6,850 6,850 6,850 -	Recr 20 Days
EIFELUGRAFTED CHEMICALS BY MODIFIED 837 - (ng/L) Perfluorobutanoic Acid (PFBA) Perfluorobutanoic acid (PFFA) Perfluorobentanoic acid (PFHA) Perfluorobeptanoic acid (PFHA) Perfluorobeptanoic acid (PFHA) Perfluorobeptanoic acid (PFHA) Perfluorobanoic acid (PFHA) Perfluorobanoic acid (PFHA) Perfluorobanoic acid (PFHA) Perfluorobanoic acid (PFA) Perfluorobanoic acid (PFA) Perfluorobanoic acid (PFAA) Perfluorobanoic acid (PFOA) Perfluorobanoic acid (PFOA) Perfluorobanesulfonic Acid (PFOA) Perfluorobanesulfonic Acid (PFOS) Perfluorobanesulfonic Acid (PFOS) PERfluorobanes			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 8.76 35.6 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U	45.4 91.7 4.33 155 276 J 10.6 J 4.63 U 709 J 6.94 4.63 U 269 J 4.63 U 269 J 4.63 U 4.63 U 26.1 4.63 U 20.1 J 26.1 4.63 U	49.2 92.2 3.37 J 135 282 282 44.9 J 4.52 U 710 8.14 4.52 U 1.060 186 J 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U	32.9 77.5 3.27 J 108 219 11.2 4.67 U 594 4.67 U 1,080 291 4.67 U 4.67 U 4.67 U 4.67 U 4.67 U 4.67 U 4.67 U	10.3 22.9 2.20 J 2.84 67.6 5.64 4.74 U 160 2.11 J 81 24.2 149 19.9 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U	5.9 7.64 4.53 U 11.7 23.6 1.57 J 4.53 U 21 15.6 43.7 4.76 4.53 U 4.53 U 4.53 U 4.53 U 4.53 U 4.53 U 4.53 U	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 13.6 4.42 U 13.6 4.42 U 3.21 J 17.4 3.45 J 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U	8.82 16.7 4.48 U 24.5 5.66 4.48 U 180 J 60.2 3.59 J 91.1 10.4 4.48 U 4.48 U 4.48 U	19 39.2 2.99 J 51.5 111 8.78 4.46 U 280 2.47 J 162 2.47 J 162 2.47 J 162 3.00 6.2.6 4.46 U 4.46 U 4.46 U 4.46 U	Recreator EF = 45 	Recentor Days 2,030,000 2,030 2,030 2,030 2,030	Recreator EFI=1 	Recr 220 Days 7800
EIFFLUGRNATED CHEMICALS BY MODIFIED 837 - (ng/L) Perfluoroblance Acid (PFBA) Perfluoroblances Acid (PFIAS) Perfluoroblancesulfonic acid (PFIxS) Perfluorobeptanoic acid (PFIxA) Perfluorobeptanoic acid (PFIxA) Perfluorobeptanoic acid (PFIxA) Perfluorobeptanoic acid (PFIAS) HI, 1H, 2H, 2H-Perfluorocctanesulfonic Acid (6:2FTS) Perfluorocctanesulfonic acid (PFIAS) Perfluorocctanesulfonic Acid (PFIAS) Perfluorocctanesulfonic Acid (PFIAS) Perfluorocctanesulfonic Acid (PFIAS) Perfluorocctanesulfonic Acid (PFIAS) Perfluorocctanesulfonic (PFOS) Perfluorocctanesulfonic (PFOS) Perfluorocctanesulfonic Acid (PFOS) Perfluorocctanesulfonic Acid (PFOS) Perfluorocctanesulfonic Acid (PFOS) Hethyl Perfluorocctanesulfonic Acid (B2FTS) Hethyl Perfluorocctanesulfonic Acid (PEOS) Perfluorocctanesulfonic Acid (PFDS) Perfluorocctanesulfonic Acid (PFDS) Perfluorocctanesulfonic Acid (PEOS) Perfluorocctanesulfonic Acid (PEOS)			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 35.6 8.76 35.6 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U	45.4 91.7 4.33 155 276 J 4.63 U 709 J 4.63 U 1.060 J 269 J 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 2.01 J 4.63 U 2.01 J 4.63 U 2.31 U 4.63 U	49.2 92.2 3.37 J 135 282 4.52 U 719 8.14 4.52 U 8.14 4.52 U 8.54 4.52 U 4.52 U 7.96 1.060 1.060 1.060 1.060 1.060 1.060 1.052 U 4.52 U 7.94 J 4.52 U 7.94 J 4.52 U 7.94 J 4.52 U 7.94 J 4.52 U 7.94 J 4.52 U 7.94 J 7.95 J	32.9 37.5 3.27 J 108 219 11.2 4.67 U 4.67 U 1,080 291 4.67 U 4.67 U 4.67 U 2.8.7 4.67 U 2.8.7 4.67 U 2.8.7 4.67 U 2.3.3 U	10.3 22.9 2.20 J 2.84 67.6 5.64 4.74 U 160 2.11 J 81 24.2 149 19.9 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 2.3.7 U 4.74 U 4.74 U	5.9 7.64 4.53 U 11.7 23.8 4.53 U 4.53 U	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 4.42 U 3.21 J 17.4 3.45 J 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U	8.82 16.7 4.48 U 24.5 5.64 118 1.90 J 60.2 3.59 J 91.1 10.4 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U	19 39.2 2.99 J 51.5 111 8.78 4.46 U 280 2.47 J 162 17.2 300 62.6 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U	Recreator EF = 45 18,300,000 18,300,000 18,300 18,300 18,300 18,300 	Recreator 5 Days 	Recreator EFI=1 6,850,000 6,850 6,850 -	Recr 220 Days 7600
EIFFLUGRAFTED CHEMICALS BY MODIFIED 837 - (ng/L) Parfluorobutanoic Acid (PFBA) Parfluorobutanoic Acid (PFFA) Parfluorobutanesulfonic acid (PFFA) Parfluorobeptanoic acid (PFFA) Parfluorobeptanoic acid (PFHA) Parfluorobeptanoic acid (PFAS) Parfluorobeptanoic acid (PFAS) Parfluorobeptanoic acid (PFAS) Parfluorobeptanoic acid (PFOA) Parfluorobeptanoic acid (PFOA) Parfluoroctanesulfonic Acid (PFOA) Parfluoroctanesulfonic Acid (PFOA) Parfluoroctanesulfonic Acid (BFOA) Parfluoroctanesulfonic Acid (PFDA) Parfluoroteaesaneshonic Acid (PFDA) Parfluoroctanesulfonic Acid			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1167 39.6 8.76 35.6 8.76 35.6 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 21.4 R 4.28 U	45.4 91.7 4.33 155 278 J 156 6.94 4.63 U 4.63 U	492 922 337 J 135 5282 719 814 452 U 452 U 452 U 452 U 452 U 452 U 452 U 452 U 226 UJ 226 UJ 26 UJ	32.9 37.5 327 J 108 219 11.2 4.67 U 594 4.67 U 594 4.67 U 4.67 U 4	10.3 22.9 2.20 J 28.4 67.6 5.54 4.74 U 160 2.11 J 149 19.9 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 2.37 U 2.37 U 4.74 U	5.9 7.64 4.530 11.7 23.8 1.57 J 4.530 21 4.530 4.530 4.530 4.530 4.530 4.530 4.530 4.530 4.530 4.530 22.1UJ 22.1UJ 23.50 4.530 22.1UJ 23.50 23.50 25.5	3.49 J 4.02 J 4.02 J 4.92 6.27 1.20 J 4.42 U 13.8 4.42 U 3.21 J 17.4 3.21 J 17.4 3.25 J 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 1.86 UJ 4.42 U	8.82 16.7 4.48 U 24.5 564.1 1.80 1.90 1.90 1.90 1.90 1.1 10.4 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 22.4 U 22.4 U 4.48 U	19 39.2 2.99 J 51.5 111 8.78 4.46 U 2.47 J 162 17.7 300 62.6 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 22.3 U 4.46 U 22.3 U	Recreator EF = 40 18,300,000 18,300 18,300 	Recreator 5 Days 2,030,0000 2,030,0000 2,030 2,030 2,030 2,030 2,030 	Recreator EF = 1 -	Recr 20 Days 7600 7600 7700 7700 7700 7700 7700 770
EIFFLUGRNATED CHEMICALS BY MODIFIED 837 - (ng/L) Perfluoroblancio Acid (PFBA) Perfluoroblancio Acid (PFBA) Perfluorobenancio Acid (PFFRA) Perfluorobeptancia cacid (PFHxA) Perfluorobeptancia cacid (PFHxA) Perfluorobeptanceutionic acid (PFHxA) Perfluorobeptanceutionic acid (PFHxA) Perfluorobeptanceutionic acid (PFHxS) Perfluorobeptanceutionic acid (PFHxS) Perfluoroctanceutionic acid (PFHxS) Perfluoroctanceutionic acid (PFHxS) Perfluoroctanceutionic acid (PFHxA) Perfluoroctanceutionic acid (PFDA) Perfluoroctanceutionic (PFCS) Perfluoroctanceutionic (PFCS) Perfluoroctanceutionic (PFCS) Perfluoroctanceutionic (PFCS) Perfluoroctanceutionic Acid (PFDS) Perfluoroctanceutionic Acid (PFDS) Perfluoroctanceutioneutionic Acid (PECS) Perfluoroctanceutionic Acid (PFDS) Perfluoroctanceutionic Acid (PFDA) Perfluoroctanceutionic Acid (PFDA) Perfluoroctanceutionic Acid (PFDA) Perfluoroctanceutionic Acid (PFDA) Perfluoroctanceutic Acid (PFDA)			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 35.6 8.76 4.28 U 4.28 U	45.4 91.7 4.33 155 276.J 106.J 4.63 U 709.J 6.94 4.63 U 1.060.J 269.J 4.63 U 4.63 U 2.63 U 4.63 U 2.63 U 4.63 U 2.01.J 4.63 U 2.01.J 4.63 U 2.01.J 4.63 U 2.01.J 4.63 U 2.01.J 4.63 U 2.01.J 4.63 U 2.01.J 4.63 U 2.01.J 2.01.J 4.63 U 2.01.J 2.01.J 4.63 U 2.01.J 2.01.J 4.63 U 2.01.J 2.01.J 4.63 U 2.01.J 4.63 U 4.63 U 2.01.J 4.63 U 4.63 U 2.01.J 4.63 U 4.63 U 4.	49.2 42.2 3.37 J 135 282 4.52 U 719 4.52 U 719 4.52 U 7.88 1.060 1.060 1.060 1.060 1.060 1.060 1.060 1.052 U 4.52 U 2.26 U 4.52 U 4.52 U 2.26 U 4.52 U 4.52 U 2.26 U 4.52 U 4.52 U 2.26 U 4.52 U	32.9 37.5 3.27 J 108 219 11.2 4.67 U 4.67 U 4.67 U 4.67 U 4.67 U 2.81 4.67 U 2.81 4.67 U 2.81 4.67 U 2.87 4.67 U 2.87 4.67 U 2.87 4.67 U 2.87 4.67 U 2.87 4.67 U 2.87 4.67 U 2.87 2.87 4.67 U 2.87 4.67 U 2.87 2.87 2.87 2.87 2.87 2.87 2.87 2.87	10.3 22.9 2.20 J 2.84 67.6 5.64 4.74 U 160 2.11 J 81 24.2 149 9.9 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 2.3.7 U 2.3.7 U	5.9 7.64 4.53.0 11.7 11.7 23.6 15.7 4.53.0 21 15.6 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 22.1 UJ	3.49 J 4.02 J 4.92 4.92 6.27 1.20 J 1.20 J 1	8.82 16.7 4.48 U 24.5 5.66 4.48 U 118 5.66 4.48 U 1.90 J 1.90 J 1.90 J 1.90 J 1.90 J 1.90 J 1.91 J 1.448 U 4.48 U 2.24 U	19 38.2 2.99 J 51.5 51.5 4.46 U 2.87 J 162 4.46 U 4.46 U 2.2.3 U	Recreator EF = 45 18,300,000 18,300,000 18,300 18,300 18,300 	Recreator 5 Days 	Recreator EFI = 1 	Recr 20 Days 7600 7600 7700 7700 7700 7700 7700 770
EIFFLUGRNATED CHEMICALS BY MODIFIED 837 - (ng/L) Perfluorobutanesic Acid (PFBA) Perfluorobutanesic Acid (PFFAS) Perfluorobutanesic Acid (PFHAS) Perfluorobeptanois acid (PFHAS) Perfluorobeptanois acid (PFHAS) Perfluorobeptanois acid (PFHAS) HI, HI, 2H, 2H-Perfluorocatanesuffonia Acid (6:2FTS) Perfluorobeptanesuffonia Acid (PFHAS) Perfluorobeptanesuffonia Acid (PFHAS) Perfluorocatanesuffonia Acid (PFHAS) Perfluorocatanesuffonia Acid (PFHAS) Perfluorocatanesuffonia Acid (PFOS) Perfluorocatanesuffonia Acid (PFOS) Perfluorocatanesuffonia Mide (PFOSA) Perfluorocatanesuffonia Acid (PFOS) Perfluorocatanesuffonia Acid (PFOS) Perfluorocatanesuffonia Acid (PFOS) Perfluorocatanesuffonia Acid (PFOS) Perfluorocatanesuffonia Acid (PFOS) Perfluorocatanesuffonia Acid (PFOSA) Perfluorocatanesuffonia Acid (PFOSA) Perfluorocatanesuffonia Acid (PFOSA) Perfluorocatanesuffonia Acid (PFOS) Perfluorocatanesuffonia Acid (PFOS) Perfluorotodecanesic Acid (PFTOS) Perfluorotodecanesic Acid (PFTOS) Perfluorotodecanesic Acid (PFTOS) Perfluorotodecanesic Acid (PFTOA) Perfluorotodecanesic Acid (PFTOA) Perfluorotodecanesic Acid (PFTOA) Perfluorotodecanesic Acid (PFTOA) Perfluorotodecanesic Acid (PFTOS) Perfluorotodecanesic Acid (PFTOA) Perfluorotodecanesic Acid (PFTOS) Perfluorotodecanesic Acid (PFTOS) Perfluorotodecanesic Acid (PFTOS) Perfluorotodecanesic Acid (PFTOA) Perfluorotodecanesic Acid (PFTOA) Perfluorotodecanesic Acid (PFTOA) Perfluorotodecanesic Acid (PFTOA) Perfluorotodecanesic Acid (PFTOS) Perfluorotodecanesic Acid (PFTOA) Perfluorotodecanesic Acid (PFTOA) PETNOS PERFLUOROTOCANESICAN PETNOS PERFLUOROTOCANESICAN			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.87 J 30.6 8.76 8.76 8.76 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 21.4 R 4.28 U 21.4 R 4.28 U	45.4 91.7 4.33 155 276.J 10.6.J 709.J 6.94 4.63.U 4.63.U 4.63.U 4.63.U 4.63.U 2.59.J 4.63.U 4.63.U 2.61.J 4.63.U 2.0.1J 4.63.U 4.63.U 2.0.1J 4.63.U 2.0.1J 4.63.U 4	48.2 82.2 3.37 J 155 282 282 14.9 J 14.9 J 14.8 L 14.9 J 14.9 J 14.8 L 14.9 J 14.9 J 15.9 J 15.	32.9 32.9 32.7 J 108 219 11.2 594 4.67 U 1.080 291 4.67 U 4.67 U 28.7 4.67 U 28.7 4.67 U 28.7 4.67 U 28.3 U 4.67 U 28.3 U 28.3 U 28.4 C 28.4 C	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160 2.11 J 81 19.9 24.2 149 19.9 24.2 149 4.74 U 4.74	5.9 7.64 7.64 7.64 11.7 23.6 15.7 3.0 15.7 3.0 23.6 15.7 4.53.0 20.1 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0	340 J 402 J 492 492 627 120 J 136 442 U 321 J 346 J 174 174 442 U 442 U	8.82 16.7 4.48 U 24.5 5.66 4.48 U 118 100 J 60 2 3.59 J 91.1 10.4 4.48 U 4.48 U 4.48 U 22.4 U 4.48 U 22.4 U 22.4 U 22.4 U 22.4 U	19 30.2 2.99J 51.5 51.5 111 8.78 2.80 2.47 J 162 2.80 2.47 J 162 2.80 2.47 J 162 4.46 U 4.46 U 2.2.3 U 4.46 U 2.2.3 U 4.46 U 2.2.3 U	Recreator EF = 40 	Recreator 5 Days 2.030,000 2.030,000 2.030 2.030 2.030 2.030 2.030 2.030 2.030,000 2.030,000 2.030,000 	Recreator EF = 1 -	Recr 20 Days
EIFFLUGRNATED CHEMICALS BY MODIFIED 837 - (ng/L) Perfluorobancio Acid (PFBA) Perfluoropentancia Acid (PFFBA) Perfluoropentancia acid (PFFRA) Perfluoropentancia acid (PFFRA) Perfluoropentancia acid (PFFRA) Perfluoropentance acid (PFFRA) Perfluoropentance acid (PFFRA) Perfluoropentance acid (PFFRA) Perfluoroctanesulfonia Acid (AFFRA) Perfluoroctanesulfonia Acid (AFFRA) Perfluoroctanesulfonia Acid (PFFRA) Perfluoroctanesulfonia Acid (PFIAS) Perfluoroctanesulfonia Acid (PFDA) Perfluoroctanesulfonia Acid (ASPTS) Perfluoroctanesulfonia Michaelet Acid (ASPTS) Perfluoroctanesulfonia Michaelet Acid (ASPTS) HAtetty) Perfluoroctanesulfonia Michaelet Acid (MeFOSA) Perfluoroctanesulfonia Michaelet (CEIFOSA) Perfluoroctanesulfonia Acid (PFDA) Perfluoroctanesulfonia Acid (PFDA) Perfluorotdecanesi Acid (PFDA) Perfluoroctanesulfonia Acid (PFDA) Perfluorotdecanesi Acid (PFDA) Perfluorotdecanesi Acid (PFDA) Perfluoroctanesulfonia Acid (PFDA) Perfluorotdecanesi Acid (PFDA) Perfluorotanes Suffonamide (PEOSA) Perfluorotanesi Acid (PFDA) Perfluorotanesi Acid (PFDA) Perfluorotanesi Acid (PFDA) Perfluorotanesi Acid (PFDA) Perfluorotanesi Acid (PFDA) Perfluorotanesi Acid ACIA (PEDA) Perfluorotanesi Acid ACIA (PEDA) Perfluorotanesi Acid (PFDA) Perfluorotanesi			5.4 5.4 8.28 19.5 11.7 7.23 4.28 U 11.4 1.87 J 30.6 8.76 35.6 4.28 U 4.28 U 2.14 R 4.28 U	45.4 91.7 4.33 155 276 J 106.4 4.63 U 1080 J 269 J 4.63 U 269 J 4.63 U 269 J 4.63 U 269 J 4.63 U 201 J 201 J	49.2 52.2 3.3.7 J 135 282 14.9 J 4.52 U 719 8.14 4.52 U 7.86 1.060 1.60 4.52 U 4.52 U 2.26 U 4.52 U 2.26 U 4.52 U 2.26 U	32.9 32.9 32.7 J 108 219 11.2 4.67 U 594 4.67 U 1.080 291 4.67 U 2.67 U 2.67 U 2.67 U 2.67 U 2.67 U 2.53 U 4.67 U 2.53 U 2.53 U 4.67 U 2.53 U 2.53 U 2.53 U 2.53 U 2.54 U 2	10.3 22.9 2.20 J 28.4 67.6 5.94 4.74 U 160 2.11 J 81 2.42 149 8.1 2.42 149 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 2.37 U 4.74 U 2.37 U 2.37 U 2.37 U	5.9 7.64 4.53.0 11.7 11.7 15.7 15.7 4.53.0 21 15.6 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 22.1 UJ	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 4.42 U	8.82 16.7 448 U 24.5 5.66 448 U 118 69.2 5.69 448 U 1.90 J 10.4 448 U 448 U	19 38.2 2.99 J 51.5 51.5 4.46 U 2.80 2.47 J 162 2.47 J 17.2 300 62.6 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 2.2 3 U 4.46 U 2.2 3 U 4.46 U 2.2 3 U	Recreator EF = 45 	Recreator 5 Ditys 2,039,000 2,039,000 2,030 2,030 2,030 2,030 2,030 -	Recreator EF = 1 6,850,00 6,850 6,850 -	Racro 20 Day 7600
EIFFLUGRNATED CHEMICALS BY MODIFIED 837 - (ng/L) Perfluoroblance Acid (PEBA) Perfluoroblance Acid (PFIAS) Perfluoroblancesulfonic acid (PFIAS) Perfluoroblancesulfonic acid (PFIAS) Perfluorobeptanoic acid (PFIAS) Perfluorobeptanoic acid (PFIAS) HI, HI, 2H, 2H-Perfluoroctanesulfonic Acid (6:2FTS) Perfluorobeptanesulfonic Acid (PFIAS) Perfluoroctanesulfonic Acid (PFIAS) Perfluoroctanesulfonic Acid (PFIAS) Perfluoroctanesulfonic Acid (PFIAS) Perfluoroctanesulfonic Acid (PFIAS) Perfluoroctanesulfonic (PFOS) Perfluoroctanesulfonic (PFOS) Perfluoroctanesulfonic (PFOS) Perfluoroctanesulfonamidoacetic Acid (MeFOSA) H, HI, 2H, 2H-Perfluoroctanesulfonamidoacetic Acid (MeFOSA) Hethyl Perfluoroctanesulfonamidoacetic Acid (MeFOSA) Perfluoroctanesulfonamidoacetic Acid (MeFOSA) Perfluoroctanesulfonamidoacetic Acid (MeFOSA) Perfluoroctanesulfonamidoacetic Acid (MeFOSA) Perfluoroctanesulfonamidoacetic Acid (MeFOSA) Perfluoroctanesulfonic Acid (PFDA) Perfluoroctanesulfonic Acid (PFDA) Perfluoroctanesulfonic Acid (PFDA) Perfluoroctanesulfonic Acid (PFDA) Perfluoroctanesulfonic Acid (PFIA) Perfluoroctanesulfonic Acid (PFI			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 8.76 8.76 4.28 U 4.28 U 2.14 R 4.28 U 2.14 U 2.14 U 2.14 U	45.4 91.7 4.33 155 276.J 10.6.J 709.J 4.63 U 4.63 U 2.31 U 4.63 U 2.31 U 4.63 U 2.31 U 4.63 U 2.31 U 4.63 U 2.31 U	40.2 92.2 3.37 J 155 262 24.9 J 4.52 U 719 8.14 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 22.6 UJ 22.6 U 22.6 U	32.9 77.5 3.27 J 108 219 11.2 594 4.67 U 1.080 299 4.67 U 4.67 U 4.67 U 4.67 U 4.67 U 2.87 4.67 U 2.8.7 4.67 U 2.8.7 4.67 U 2.8.7 4.67 U 2.8.7 4.67 U 2.8.7 4.67 U 2.8.3 U 4.67 U 2.8.3 U 2.8.2 U 4.67 U 2.8.2 U 4.67 U 2.8.2 U 4.67 U 2.8.2 U 4.67 U 2.8.2 U 4.67 U 2.8.2 U 4.67 U 2.8.3 U	10.3 22.9 2.80 J 28.4 67.6 5.64 4.74 U 100 2.11 J 100 2.11 J 100 2.11 J 100 2.11 J 100 10.9 11 J 4.74 U 4.74 U 2.37 U 2.3	5.9 7.64 4.53.0 11.7 11.7 23.6 1.57.1 50.1 5.63.0 20.1 15.63.0 21.1 15.63 4.37 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 22.1 UJ 4.53.0 22.1 UJ 4.53.0 22.1 UJ 22.1 UJ 22.1 UJ 22.1 UJ 22.1 UJ 22.1 UJ	3.40 J 4.02 J 4.42 U 4.92 6.27 1.20 J 1.20 J 1.24 J 1.24 J 4.42 U 1.442 U 1.242 U 1.2421 U 1.2221 U 2.221 U 2.221 U 2.211 U	8.82 16.7 4.48 U 24.5 5.66 4.48 U 190 J 60.2 3.59 J 91.1 10.4 4.48 U 4.48 U 4.4	19 39.2 2.99 J 51.5 111 8.78 280 2.47 J 162 17.2 300 2.446 U 4.46 U 4.46 U 4.46 U 4.46 U 2.3 U 4.46 U 2.2 J 4.46 U 2.2 J U 2.2 J U 2.2 J J 2.3 U 2.3 U 3.5 J 3.5 J	Recreator EF = 40 	Recreator 5 Days 2.030,000 2.030,000 2.030 2.030 2.030 2.030 2.030 2.030 2.030,000 2.030,000 2.030,000 	Recreator EF = 1 -	Racro 20 Day 7600
BEFLUGRAFED CHEMICALS BY MODIFIED 537 - (ng/L) Perfluorobutanoic Acid (PFEA) Perfluorobutanoic Acid (PFFA) Perfluorobutanesulfonic acid (PFFA) Perfluorobeptanoic acid (PFHA) Perfluorobeptanoic acid (PFHA) Perfluorobaptanoic acid (PFDA) Perfluorobaptanoic acid (PFDA) Perfluorobaptanoic acid (PFOA) Perfluorobaptanoic acid (PFOA) Perfluorobaptanoic acid (PFOA) Perfluorobaptanoic acid (PFOA) Perfluorobaptanoic acid (PFOA) Perfluorobaptanoic acid (PFOA) Perfluorobaptanoic acid (PFOA) Perfluorobaptanoicanesulfonic Acid (8:2FTS) Hethyl Perfluorobaptanoicanesulfonic Acid (8:2FTS) Perfluorobaptanoicanesulfonic Acid (PFOA) Perfluorobaptanoicanesulfonic Acid (PFOS) Perfluorobaptanoicanesulfonic Acid (PFOS) Perfluorobaptanoicanesulfonic Acid (PFOS) Perfluorobaptanoicanesulfonic Acid (PFOS) Perfluorobaptanoicanoic Acid (PFDA) Perfluorobaptanoicanoic Acid (PFDA) Perfluorobaptanoicanesulfonicanesulfonicanesulfonic Perfluorobaptanoicanesulfonicanesulfonicanesulfonicanesulfonic Perfluorobaptanoicanesulfon			5.4 5.4 8.28 19.5 11.7 7.23 4.28 U 11.4 1.87 J 30.6 8.76 35.6 4.28 U 4.28 U 2.14 R 4.28 U	45.4 91.7 4.33 155 276 J 106.4 4.63 U 1080 J 269 J 4.63 U 269 J 4.63 U 269 J 4.63 U 269 J 4.63 U 201 J 201 J	49.2 52.2 3.3.7 J 135 282 14.9 J 4.52 U 719 8.14 4.52 U 7.86 1.060 1.60 4.52 U 4.52 U 2.26 U 4.52 U 2.26 U 4.52 U 2.26 U	32.9 32.9 32.7 J 108 219 11.2 4.67 U 594 4.67 U 1.080 291 4.67 U 2.67 U 2.67 U 2.67 U 2.67 U 2.67 U 2.53 U 4.67 U 2.53 U 2.53 U 4.67 U 2.53 U 2.53 U 2.53 U 2.53 U 2.54 U 2	10.3 22.9 2.20 J 28.4 67.6 5.94 4.74 U 160 2.11 J 81 2.42 149 8.1 2.42 149 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 2.37 U 4.74 U 2.37 U 2.37 U 2.37 U	5.9 7.64 4.53.0 11.7 11.7 15.7 15.7 4.53.0 21 15.6 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 22.1 UJ	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 4.42 U 4.42 U	8.82 16.7 448 U 24.5 5.66 448 U 118 69.2 5.69 448 U 1.90 J 10.4 448 U 448 U	19 38.2 2.99 J 51.5 51.5 4.46 U 2.80 2.47 J 162 2.47 J 17.2 300 62.6 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 2.2 3 U 4.46 U 2.2 3 U 4.46 U 2.2 3 U	Recreator EF = 40 	Recreator 5 Ditys 2,039,000 2,039,000 2,030 2,030 2,030 2,030 2,030 -	Recreator EF = 1 6,850,00 6,850 6,850 -	Recipion 20 Day
ERFLUGRNATED CHEMICALS BY MODIFIED 537 - (ng/L) Perfluorobutance Acid (PFBA) Perfluorobutance Acid (PFIAS) Perfluorobutancesulfonic acid (PFIAS) Perfluorobeptanois acid (PFIAS) Perfluorobeptanois acid (PFIAS) Perfluorobeptanois acid (PFIAS) H, 111, 2H, 2H-Perfluorocctanesulfonic Acid (6:2FTS) Perfluorobeptanesulfonic acid (PFIAS) Perfluorocctanesulfonic acid (PFIAS) Perfluorocctanesulfonic acid (PFIAS) Perfluorocctanesulfonic acid (PFIAS) Perfluorocctanesulfonic acid (PFOS) Perfluorocctanesulfonic acid (PFOS) Perfluorocctanesulfonic acid (PFOS) Perfluorocctanesulfonicanidoacetic Acid (MeFOSA) Perfluorocctanesulfonicanidoacetic Acid (MeFOSA) Perfluorocctanesulfonicacetic Acid PErfluorocctanesulfonicacetic Acid PErfluorocctanesulfonicacetic Acid PErfluorocctanesulfonicacetic Acid PErfluorocctanesulfonicacetic Acid PErfluorocctanesulfonicacetic Acid PErfluorocctanesulfonicacetic Acid PErfluorocctanesulfonicacetic Acid PErfluorocctanesulfonicacetic Acid PErfluorocctanesulfonicacetic Acid PErfluorocctanesulfonicat (EFOSA) Perfluorocctanesulfonicat (EFOSA) Perfluorocctanesulfo			5.4 6.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 21.4 R 4.28 U 21.4 R 4.48 C 28.6 C	45.4 91.7 4.33 155 276.4 155 276.4 155 276.4 4.63.0 4.63.0 4.63.0 4.63.0 259.4 4.63.0 259.4 4.63.0 20.1,1 4.63.0 20.1,1 4.63.0 23.1,0 23.1,0 2	40.2 92.2 3.37 J 135 282 4.52 U 719 8.14 4.52 U 4.52 U 4.5	32.9 77.5 3.27 J 108 219 11.2 594 4.67 U 1.080 4.67 U 4.67 U 2.81 4.67 U 2.87 U 4.67 U 2.87 U 2.83 U 4.67 U 2.83 U 2.84 U 2.85 U	10.3 22.9 28.4 67.6 5.64 4.74 U 160 2.11 J 160 199 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 2.3.7 U 4.74 U 2.3.7 U 4.74 U 2.3.7 U 2.3.7 U 2.3.7 U 2.3.7 U 3.00	5.9 7.64 4.53.0 11.7 23.6 5.7.1 15.7 1.57.3 1.57.3 1.57.3 1.57.3 1.57.3 4.53.0 21 15.6 4.78 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 2.2.1.0J 4.53.0 2.2.1.0J 4.53.0 2.2.1.0J 4.53.0 2.2.1.0J 4.53.0 2.2.1.0J 4.53.0 2.2.1.0J 4.53.0 2.2.7.0 93.8	3.40 J 4.02 J 4.42 U 4.52 6.27 1.20 J 1.20 J 4.42 U 4.42 U	8.82 16.7 4.48 U 24.5 5.66 4.48 U 118 1.00 J 66.2 3.99 J 91.1 10.4 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 22.4 U 4.48 U 4.48 U 22.4 U 4.48 U 22.4 U 22.4 U 22.4 U 22.4 U 22.4 U 22.4 U 22.4 U	19 39.2 2.99 J 51.5 111 8.78 280 2.47 J 162 172 300 62.6 4.46 U 4.46 U 4.46 U 4.46 U 2.3 U 4.46 U 2.3 U 4.46 U 2.2 3 U 4.46 U 2.2 3 U 4.46 U 2.2 3 U 580	Recreator E = 40 18,300,000 18,300 18,300 18,300 	Recreator 5 Days 	Recreator EF = 1 6,850 -	Recrete Recret
EIFFLUGRAFED CHEMICALS BY MODIFIED 837 - (ng/L) Perfluorobutanoic Acid (PFBA) Perfluorobutanoic Acid (PFFA) Perfluorobutanesulfonic acid (PFFA) Perfluorobeptanoic acid (PFHA) Perfluorobeptanoic acid (PFHA) Perfluorobeptanoic acid (PFHA) Perfluorobeptanoic acid (PFHA) Perfluorobeptanoic acid (PFHA) Perfluorobeptanoic acid (PFAS) Perfluorobeptanoic acid (PFAS) Perfluorobeptanoic acid (PFAS) Perfluorocotanesulfonic Acid (PFHAS) Perfluorocotanesulfonic Acid (PFHAS) Perfluorocotanesulfonic Acid (PFAS) Perfluorocotanesulfonic Acid (PFOS) Perfluorocotanesulfonic Acid (PFOS) Perfluorocotanesulfonic Acid (PFOS) Perfluorocotanesulfonic Acid (PFOS) Perfluorocotanesulfonic Acid (PFDS) Perfluorocotanesulfonic Acid (PFDS) Perfluorocot			5.4 8.28 4.28 U 19.5 41.7 7.23 4.28 U 18.7 3.6, 8.76 3.6, 8.76 4.28 U 4.28 U 2.14 R 4.28 U 2.14 R 4.28 U 2.14 R 4.28 U 2.14 R 4.28 U 2.14	45.4 91.7 4.33 155 276.J 10.6.J 709.J 6.94 4.63 U 4.63 U 20.1J 4.63 U 20.1J 4.63 U 20.1J 4.63 U 20.1J 4.63 U 20.1J 4.63 U 20.1J 4.63 U 20.1J 4.63 U 20.1J 4.63 U 20.1J 4.63 U 20.1U 4.63 U 20.1U 20.2U 4.63 U 20.2U 4.63 U 20.2U	40.2 42.2 3.3.7 J 135 282 24.9 J 14.9 J 14.9 J 14.9 J 186 J 452 U 452 U 452 U 452 U 452 U 452 U 452 U 22.6 U	32.9 32.9 77.5 3.27 J 108 219 11.2 4.67 U 4.67 U 4.67 U 4.67 U 4.67 U 4.67 U 4.67 U 4.67 U 4.67 U 2.33 U 4.67 U 2.33 U 3.34 U 2.33 U 3.34 U 3.34 U 3.34 U 3.34 U 3.34 U 3.35 U 3.55	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160 2.11 J 81 24.2 149 24.2 149 4.74 U 4.74 U 3.71 U 2.3.7 U 3.300 2.3000 2.3000 2.3000 2.3000 2.3000 2.3000 2.3000 2.3000 2.3000 2.30000 2.30000 2.30000000000	5.9 7.64 4.53.0 11.7 11.7 15.7 50.1 50.1 453.0 453.0 453.1 15.6 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 2.2.1.0.1 4.53.0 2.2.7.0 2.2.7.0 2.3.8 14	3.49 J 4.02 J 4.42 U 4.92 6.27 1.20 J 13.6 13.6 13.6 13.6 13.6 13.6 13.6 13.6	8.82 16.7 4.48 U 24.5 5.66 4.48 U 190 J 60.2 5.69 91.1 10.4 3.59 J 91.1 10.4 4.48 U 4.48 U 2.24 U 2.2	19 30.2 2.99 J 51.5 111 8.78 2.47 J 102 2.47 J 102 2.47 J 102 2.47 J 102 17.2 300 62.6 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 2.2.3 U 4.46 U 2.2.3 U 4.46 U 2.2.3 U 4.46 U 580 580	Recreator E = 40 18,300,000 18,300 18,300 18,300 	Recreator 5 Days 	Recreator EF = 1 6,850 -	Rec: 20 Day
EIFFLUGRNATED CHEMICALS BY MODIFIED 837 - (ng/L) Perfluoroblance Acid (PFBA) Perfluoroblance Acid (PFIAS) Perfluoroblance acid (PFIAS) Perfluoroctanesuffonic Acid (PFIAS) Perfluoroctanesuffonic Acid (PFIAS) Perfluoroctanesuffonic Acid (PFIAS) Perfluoroctanesuffonic Acid (PFIAS) Perfluoroctanesuffonic Acid (PFIAS) Perfluoroctanesuffonic (PFOS) Perfluoroctanesuffonic (PFOS) Perfluoroctanesuffonic Acid (PFDS) Perfluoroctanesuffonic Acid (PFDA) Hethyl Perfluoroctane Suffonamide (EFOSA) Perfluoroctanesuffonic Acid (PFDA) Hethyl Perfluoroctanesuffonic Acid (PFDS) Perfluoroctanesuffonic Acid (PFDA) Hethyl Perfluoroctanesuffonic Acid (PFDA) Perfluoroctanesuffonic Acid (PFDA) Perfluoroctanesuffonic Acid (PFDA) Perfluoroctanesuffonic Acid (PFDA) Hethyl Perfluoroctanesuffonic Acid (PFDA) Perfluoroctanesuffonic Acid (PFDA) Perfluorocta			5.4 6.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 21.4 R 4.28 U 21.4 U 21.6 S 140.6 S 140.8 S	45.4 91.7 4.33 155 276.J 105 709.J 6.94 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 201.J 201.J 4.63 U 23.1 U 4.63 U 23.1 U 23.1 U 1.766 J 1.766 J 4.63 U 23.1 U 4.63 U 4.63 U 23.1 U 4.63 U 4.63 U 4.63 U 23.1 U 4.63 U 4.63 U 4.63 U 23.1 U 4.63 U 4.63 U 4.63 U 23.1 U 4.63 U 4.64 U 4.64 U 4.65 U 4.64	40.2 92.2 3.37 J 135 282 4.52 U 719 8.14 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 2.2.6 UJ 4.52 U 4.52 U 2.2.6 UJ 4.52 U 2.2.6 UJ 4.52 U 2.2.6 UJ 4.52 U 4.52 U 2.2.6 U 4.52 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 4.52 U 2.2.6 U 4.52	32.9 77.5 3.27 J 108 219 11.2 584 4.67 U 1.080 2.87 U 4.67 U 4.67 U 2.87 U 4.67 U 2.87 U 4.67 U 2.87 U 4.67 U 2.3.3 U 2.83 U 2.3.3 U 4.67 U 2.3.3 U 2.3.4 U 2.3.3 U 2.3.3 U 2.3.3 U 2.3.3 U 2.	10.3 22.9 28.4 67.6 5.64 4.74 U 160 2.11 J 160 199 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 23.7 U 23.7 U 23.7 U 23.7 U 23.7 U 23.7 U 300 6.8	5.9 7.64 4.53.0 11.7 23.6 15.7 J 5.61 5.61 4.53.0 21 15.6 4.37 4.76 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 2.2.1.0.1 4.53.0 2.2.1.0.1 4.53.0 2.2.1.0.2 4.53.0 2.2.1.0.2 4.53.0 2.2.1.0.2 4.53.0 2.2.1.0.2 93.8 14 6.6	3.40 J 4.02 J 4.42 U 4.52 6.27 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 1.96 UJ 4.42 U 1.96 UJ 4.42 U 4.42 U 1.96 UJ 4.42 U 1.96 UJ 4.76 UJ	8.82 16.7 4.48 U 24.5 5.66 4.48 U 118 1.00 J 60.2 3.99 J 91.1 10.4 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 22.4 U 4.48 U 22.4 U 4.48 U 22.4 U 20.6 I	19 39.2 2.09 J 51.5 111 8.78 280 247 J 162 172 300 62.6 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 22.3 U 4.46 U 22.3 U 4.46 U 22.3 U 580 580 580 580 580 580 580 580	Recreator E = 40 18,300,000 18,300 18,300 18,300 	Recreator 5 Days 	Recreator EF = 1 6,850 -	Recrete Recret
EIFFLUGRNATED CHEMICALS BY MODIFIED 837 - (ng/L) Perflucrobutanesic Acid (PFBA) Perflucrobutanesic Acid (PFFA) Perflucrobutanesic Acid (PFHA) Perflucrobeptanois acid (PFHA) Perflucrobeptanois acid (PFHA) Perflucrobeptanois acid (PFHA) Perflucrobeptanois acid (PFHA) Perflucrobeptanois acid (PFHA) Perflucrobeptanois acid (PFHA) Perflucroctanesilfonia Acid (PFHAS) Perflucroctanesilfonia Acid (PFOS) Perflucroctanesilfonia Acid (PFOS) Perflucroctanesilfonia Acid (PFOS) Perflucroctanesilfonia Acid (PEDA) Acid Methyl Perflucrocctanes Suffoniamidacetic Acid (MeFOSA) Perflucrodecanesilfonia Acid (PFDA) Perflucroctanesilfonia Acid (PFDA) Perflucroctanesilf			5.4 8.28 4.28 U 19.5 7.23 4.28 U 114 1.67 J 39.6 8.76 8.76 8.76 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 21.4 R 4.28 U 21.4 C 4.28 C 21.4 C 4.28 C 4	45.4 91.7 4.33 155 276.J 10.6.J 10.6.J 709.J 6.94 4.63.U 4.63.U 4.63.U 4.63.U 2.69.J 4.63.U 2.69.J 4.63.U 2.63.U 4.63.U 2.63.U 4.63.U 4.63.U 2.61.U 4.63.U 4.63.U 2.61.U 4.63.U 4.63.U 4.63.U 4.63.U 2.61.U 4.63.U 2.31.U 4.63.U 2.31.U 4.63.U 4.63.U 2.31.U 4.63.U 3.31.U 4.63.U 3.31.U 4.63.U 3.31.U 4.63.U 3.33.U 4.63.U 3.33.U 4.63.U 3.33.U 4.63.U 4.63.U 3.33.U 4.63.U 4	48.2 82.2 3.37 J 135 282 24.9 J 14.9 J	32.9 32.9 32.7 J 108 219 11.2 594 4.67 U 1.680 291 4.67 U 4.67 U 4.67 U 2.67 4.67 U 2.67 4.67 U 2.3.3 U 2.3.4 U 2.3.3 U 2.3.4 U 2.3.4 U 2.3.4 U 2.3.4 U 2.4 U	10.3 22.9 2.20 J 28.4 67.6 5.64 4.74 U 160 2.11 J 180 2.4.2 149 19.9 2.4.2 149 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 2.3.7 U 3.009	5.9 7.64 4.53.0 11.7 23.6 15.7 15.7 50.1 4.53.0 21 15.6 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 22.1 UJ 4.53.0 22.7 U 22.7 U 93.8 14 6.6 220	3.40 J 4.02 J 4.42 U 4.92 6.27 1.20 J 1.20 J	8.82 16.7 4.48 U 24.5 5.66 4.48 U 118 100 J 62 2 5.69 J 91.1 10.4 4.48 U 4.48 U 4.48 U 22.4 U	19 30.2 2.99 J 51.5 51.5 111 8.78 2.80 2.47 J 162 2.47 J 162 2.47 J 162 2.47 J 17.2 17	Recreator E = 40 18,300,000 18,300 18,300 18,300 	Recreator 5 Days 	Recreator EF = 1 6,850 -	Recrete Recret
EIFFLUGRNATED CHEMICALS BY MODIFIED 837 - (ng/L) Perfluoroblance Acid (PFBA) Perfluoroblance Acid (PFIAS) Perfluoroblance acid (PFIAS) Perfluoroctanesuffonic Acid (PFIAS) Perfluoroctanesuffonic Acid (PFIAS) Perfluoroctanesuffonic Acid (PFIAS) Perfluoroctanesuffonic Acid (PFIAS) Perfluoroctanesuffonic Acid (PFIAS) Perfluoroctanesuffonic (PFOS) Perfluoroctanesuffonic (PFOS) Perfluoroctanesuffonic Acid (PFDS) Perfluoroctanesuffonic Acid (PFDA) Hethyl Perfluoroctane Suffonamide (EFOSA) Perfluoroctanesuffonic Acid (PFDA) Hethyl Perfluoroctanesuffonic Acid (PFDS) Perfluoroctanesuffonic Acid (PFDA) Hethyl Perfluoroctanesuffonic Acid (PFDA) Perfluoroctanesuffonic Acid (PFDA) Perfluoroctanesuffonic Acid (PFDA) Perfluoroctanesuffonic Acid (PFDA) Hethyl Perfluoroctanesuffonic Acid (PFDA) Perfluoroctanesuffonic Acid (PFDA) Perfluorocta			5.4 6.28 4.28 U 19.5 41.7 7.23 4.28 U 114 1.67 J 39.6 8.76 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 4.28 U 21.4 R 4.28 U 21.4 U 21.6 S 140.6 S 140.8 S	45.4 91.7 4.33 155 276.J 105 709.J 6.94 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 4.63 U 201.J 201.J 4.63 U 23.1 U 4.63 U 23.1 U 23.1 U 1.766 J 1.766 J 4.63 U 23.1 U 4.63 U 4.63 U 23.1 U 4.63 U 4.63 U 4.63 U 23.1 U 4.63 U 4.63 U 4.63 U 23.1 U 4.63 U 4.63 U 4.63 U 23.1 U 4.63 U 4.64 U 4.64 U 4.65 U 4.64	40.2 92.2 3.37 J 135 282 4.52 U 719 8.14 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 4.52 U 2.2.6 UJ 4.52 U 4.52 U 2.2.6 UJ 4.52 U 2.2.6 UJ 4.52 U 2.2.6 UJ 4.52 U 4.52 U 2.2.6 U 4.52 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 2.2.6 U 4.52 U 4.52 U 2.2.6 U 4.52	32.9 77.5 3.27 J 108 219 11.2 584 4.67 U 1.080 2.87 U 1.080 4.67 U 4.67 U 2.81 4.67 U 2.87 U 4.67 U 2.83 U 2.84 U	10.3 22.9 28.4 67.6 5.64 4.74 U 160 2.11 J 160 199 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 4.74 U 23.7 U 23.7 U 23.7 U 23.7 U 23.7 U 23.7 U 300 6.8	5.9 7.64 4.53.0 11.7 23.6 15.7 J 5.61 5.61 4.53.0 21 15.6 4.37 4.76 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 4.53.0 2.2.1.0.1 4.53.0 2.2.1.0.1 4.53.0 2.2.1.0.2 4.53.0 2.2.1.0.2 4.53.0 2.2.1.0.2 4.53.0 2.2.1.0.2 93.8 14 6.6	3.40 J 4.02 J 4.42 U 4.52 6.27 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 1.20 J 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 4.42 U 1.96 UJ 4.42 U 1.96 UJ 4.42 U 4.42 U 1.96 UJ 4.42 U 1.96 UJ 4.76 UJ	8.82 16.7 4.48 U 24.5 5.66 4.48 U 118 1.00 J 60.2 3.99 J 91.1 10.4 4.48 U 4.48 U 4.48 U 4.48 U 4.48 U 22.4 U 4.48 U 22.4 U 4.48 U 22.4 U 20.6 I	19 39.2 2.09 J 51.5 111 8.78 280 247 J 162 172 300 62.6 4.46 U 4.46 U 4.46 U 4.46 U 4.46 U 22.3 U 4.46 U 22.3 U 4.46 U 22.3 U 580 580 580 580 580 580 580 580	Recreator E = 40 18,300,000 18,300 18,300 18,300 	Recreator 5 Days 	Recreator EF = 1 6,850 -	Recr 20 Days

Draft Table 5 - Summary of Surface Water Analytical Data: Spring 2020 2020 Semi-Annual Summary Report Coakley Landfull Superfund Site Greenland and North Hampton, New Hampshire

NOTES:

- 1. VOCs list is limited to analytes detected in samples
- --- no standard has been established for the indicated parameter. 2 3.
- NHDES Surface Water Standards are listed in Env Wq 1700, Table 1703.1
- 4.
- There are no ROD ICLs established for surface water. Highlighting: Bold values denote NHDES Acute Surface Water Criteria Exceedances; Gray shaded values denote NHDES Chronic Criteria Exceedances. Blue shaded values denote EPA Screening Level Child Recreator Exceedances, EF = 120 days 5
- The reporting detection limit (RDL) for zinc, silver and lead are consistent with RDLs specified in the SAP; however, they exceed the "default" (see footnote *) acute and/or chronic standards. 7
- Perfluorinated chemicals were re-extracted beyond the 14-day holding time limit (27 days) due to method blank contamination. The results from the reextracted sample (SW-110) was used in the decision making.
- * Acute and chronic standards based on "default" values listed in Env Wq 1700, Table 1703.1. Actual standards may vary based on the water Hould and unon a samana based on denate associated in Lin r ny rook rate for the rook of the rook
- R Data rejected ### U Not detected at the reporting limit.

- ### U Not detected at the reporting limit. U Undettected astimated US/cm microsiemens per centimeter ug/L micrograms per liter, parts per billion mg/L nanograms per liter, parts per trillion ng/L nanograms per liter, parts per trillion NTU nephelometric turbidity unit
- mV millivolt EF Effective Days
- <# Less than number indicated

Draft Table 6 - Summary of Sediment Analytical Data: Spring 2020

2020 Semi-Annual Summary Report Coakley Landfull Superfund Site

Greenland and North Hampton, New Hampshire

Sampling Point ID SQuiRT TEC SED-4 SED-50UP SED-410 SED-110 SED 100 SED<100	0.5 U 0.5	12020 5/14/2020 00 EB 5,900 EB	Notes: U = I	Not detected about		
TOTAL METALS BY 6020 - (mg/kg) 8.000 EB 8.600 EB 8.700 EB 12.000 EB Total Aluminum 0.5 U 1.7 1.7 0.5 U 0.5 U Total Antimony 0.5 U 1.7 1.7 0.5 U 0.5 U Total Arsenic 9.79 4.4 13 13 9.5 6 Total Barium 58 EB 66 EB 75 EB 33 EB 44 EB Total Beryllium 0.5 U 0.55 0.5 U 0.5 U 0.5 U Total Beryllium 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	17,000 EB 22,00 0.5 U 0.5	00 EB 5,900 EB		Not detected abov		
Total Aluminum 8,000 EB 8,600 EB 8,700 EB 9,700 EB 12,000 EB Total Antimony 0.5 U 1.7 1.7 0.5 U 0.5 U Total Aratimony 0.5 U 1.7 1.7 0.5 U 0.5 U Total Arsenic 9.79 4.4 13 13 9.5 6 Total Barium 58 EB 66 EB 75 EB 33 EB 46 EB Total Barium 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U Total Cartium 0.99 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.5 U 0.5			Not detected abov		
Total Antimony 0.5 U 1.7 1.7 0.5 U 0.5 U Total Arsenic 9.79 4.4 13 13 9.5 6 Total Barium 58 EB 66 EB 75 EB 33 EB 46 EB Total Barium 0.5 U 0.55 0.5 U 0.5 U 0.5 U Total Cadmium 0.99 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.5 U 0.5		U = .	Not detected about		
Total Arsenic 9.79 4.4 13 13 9.5 6 Total Barium 58 EB 66 EB 75 EB 33 EB 46 EB Total Beryllium 0.5 U 0.55 0.5 U 0.5 U 0.5 U Total Cadmium 0.99 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U					e the reporting limit	t indicated.
Total Barium 58 EB 66 EB 75 EB 33 EB 46 EB Total Beryllium 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U Total Cadmium 0.99 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	10	5 U 0.5 U	J = /	Estimated		
Total Beryllium 0.5 U 0.5 U 0.5 U 0.5 U Total Cadmium 0.99 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	18 18	9.8	UJ = 1	Undetected estimation	ated	
Total Cadmium 0.99 0.5 U 0.5 U 0.5 U 0.5 U	67 EB 89 1	EB 34 EB	EB =	Parameter detecte	ed in associated equ	uipment blank.
	0.82 1.	.1 0.5 U		Effective Days		
	0.5 U 0.5	5U 0.5U	ND =	Not detcted		
Total Calcium 11,000 EB 5,600 EB 5,700 EB 1,100 EB 1,200 EB	2,700 EB 690	DEB 1,100 EB		Milligrams per kilog	arams	
Total Chromium 43.4 12 23 28 29 32		36 14				the indicated parame
Total Cobalt 1.4 8.8 8.5 7.4 7.3		16 4.1		no standara nas s		the malouted parame
Total Copper 31.6 12 47 49 18 11		22 13				
10al roopper 31.0 12 14/0 49 10 11 Total ron 2,500 EB 15,000 EB 15,000 EB 15,000 EB 14,000 EB		00 EB 13,000 EB				
10da 10da Total Lead 35.8 29 63 63 24 8.9		12 13				
Total Magnesium 1,600 2,600 3,000 4,000 4,200	7,500 6,4					
Total Manganese 410 380 430 300 180	530 72	1100 / Control /				
Total Mercury 0.18 0.21 0.54 0.59 0.1 U 0.1 U		1U 0.1U				
Total Nickel 22.7 6.1 22 23 24 21		38 11				
Total Potassium 1,300 EB 1,500 EB 1,700 EB 830 EB 1,600 EB		0 EB 1,200 EB				
Total Selenium 1.4 0.5 U 0.9 0.5 U 0.5 U		.56 0.5 U				
Total Silver 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U		5U 0.5U				
Total Sodium 240 210 200 92 200	290 10	00 100 U				
Total Thallium 0.5 U 0.5 U 0.5 U 0.5 U 0.5 U	0.5 U 0.5	5U 0.5U				
Total Vanadium 20 33 36 20 27	40 4	11 15				
Total Zinc 121 66 75 75 49 37	99 6	31 32				
1.4-Dioxane by 8260B SIM mg/kg			USEPA Scree	ening Levels	USEPA Scree	ening Levels
14-Dioxane 0.9UJ 0.5U 0.6UJ 0.1U 0.1U	0.3 U 0.1	10 0.20	Adult Recreator		Adult Recreator	
PERFLUORINATED CHEMICALS BY MODIFIED 537 - (mg/kg)	0.0 0 0.1	0 0.20	EF = 45		EF = 12	CONTRACTOR CONTRACTOR CONTRACTOR
Perfluorobutanoic Acid (PEBA) 0.000499 U 0.000497 U 0.000497 U 0.000484 U 0.000488 U	0.000491 U 0.0004	493 U 0.000494 U				
	0.000491 U 0.0004		25.92			1000
Perfluorobutanesulfonic acid (PFBS) 0.000499 U 0.000497 U 0.000484 U 0.000484 U		0493 U 0.000494 U	9,120	983	3,420	369
Perfluorohexanoix Acid (PFHxA) 0.000499 UJ 0.000499 UJ 0.000613 J 0.000484 U 0.000488 U	and the second sec	0493 U 0.000494 UJ	and a second sec	<u>1997</u>		(222)
Perfluoroheptanoic acid (PFHpA) 0.000885 0.00195 0.00179 0.000484 U 0.000488 U	0.000491 U 0.0004	0493 U 0.000494 U	-			
Perfluorohexanesulfonic acid (PFHxS) 0.000499 U 0.000499 U 0.000497 U 0.000484 U 0.000488 U	0.000491 U 0.0004	0493 U 0.000494 U				
1H, 1H, 2H, 2H-Perfluorooctanesulfonic Acid (6:2FTS) 0.000997 U 0.000997 U 0.000995 U 0.000969 U 0.000960 U	0.000982 U 0.0009	987 U 0.000989 U				
Perfluorooctanoic acid (PFOA) 0.00226 0.00896 0.00806 0.000484 U 0.000488 U	0.000491 U 0.0004	0493 U 0.00107	9.12	0.98	3.42	0.369
Perfluoroheptanesulfonic Acid (PFHpS) 0.000997U 0.000997U 0.000995U 0.000969U 0.000976U	0.000982 U 0.0009	987 U 0.000989 U	(222)	1000	222	
Perfluorononanoic acid (PFNA) 0.00148 0.0119 0.0111 0.000484 U 0.000488 U	0.000491 U 0.0004					
Perfluorocctanesulfonamide (PFOSA) 0.0015 U 0.00145 U 0.00145 U 0.00145 U 0.00146 U	0.00147 U 0.001		_			
and and the second of the seco			10184	10101	0000	CAROLE
	12.12.12.12.12.12.12.12.12.12.12.12.12.1	1020000	9.12	0.98	3.42	0.369
Perfluorodecanoic Acid (PFDA) 0.000499 UJ 0.0197 J 0.0187 0.000484 U 0.000488 U	0.000491 U 0.0004					
1H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid (8:2FTS) 0.000997 U 0.000995 U 0.000969 U 0.000960 U		987 U 0.000989 U	1000 (Control of Control of Contr	alanda Maria	1000	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (MeFOSAA) 0.000997 U 0.000997 U 0.000995 U 0.000969 UJ 0.000960 UJ 0.000960 UJ	0.000982 U 0.0009	987 U 0.000989 U				
N-Ethyl Perfluorooctanesulfonamidoacetic (EtFOSAA) 0.000997U 0.00175 0.00172 0.000969 UJ 0.000960 U	0.000982 U 0.0009	987 UJ 0.000989 U				
Perfluoroundecanoic Acid (PFUnA) 0.000499 UJ 0.00539 0.00564 0.000484 UJ 0.000488 UJ	0.000491 U 0.0004	493 UJ 0.000979 J		-		
Perfluorodecanesulfonic Acid (PFDS) 0.000997U 0.00116 0.00118 0.000969 U 0.000976 U	0.000982 U 0.0009	987 U 0.000989 U				
Perfluorododecanoic Acid (PEDoA) 0.000499 U 0.000538 0.000513 0.000484 U 0.000488 U	0.000491 U 0.0004					
	0.00982 U 0.009	CONTRACTOR AND				
Interneting remember 2000		493 U 0.000494 U				
Perfluorotetradecanoic Acid (PFTeDa) 0.000499 U 0.000497 U 0.000497 U 0.000484 U 0.000488 U 0.000488 U 0.000488 U	0.000491 U 0.0004					
N-Ethyl Perfluorooctane Sulfonamide (EtFOSA) 0.00997 U 0.00991 U 0.010 U 0.00975 U 0.00976 U	0.00982 U 0.009			1.000		
Perfluorogexadecanoic Acid (PFHxDA) 0.000499 U 0.000496 U 0.000502 U 0.000488 U 0.000488 UJ	0.000491 U 0.0004	493 UJ 0.000494 UJ				
N-Methyl Perfluorooctanesulfonamido Ethanol (MeFOSE) 0.00997 U 0.00997 U 0.00995 U 0.00969 U 0.00969 U 0.00976 U	0.00982 U 0.009	987 U 0.00989 U				
N-Ethyl Perfluorooctanesulfonamido Ethanol (EtFOSE) 0.00997 U 0.00997 U 0.00995 U 0.00969 U 0.00976 U	0.00982 U 0.009	987 U 0.00989 U				
	0.000836 NI	D 0.01367	<u></u>			
Combination of PFOA and PFOS 0.00519 0.09956 0.10646 0.00246 ND						<u> </u>
Combination of PFOA and PFOS 0.00519 0.09956 0.10646 0.00246 ND TOTAL SOLIDS BY 2540G-91 - (Percent - %) 19.4 30.3 28.1 70.5 82.3	49.5 76	6.4 60				

NOTES:

1. Beginning in 2014, sediment data was qualified in accordance with EPA's Tier I Plus data validation guidelines.

2. The EPA has not established a cleanup standard for sediment.

Sediment laboratory analysical data are compared to the NDES Draft Evaluation of Sediment Quality Guidance Document, dated April 2005, that includes the "National Oceanic and Atmospheric Administration Screening Quick Reference Tables (NOAA SQuiRT Tables for Inorganics in Sediment 1-Frestwater), Current SQuiRT Tables are located on the NOAS website: http://archive.orr.noaa.gov/book_sheft/122_NEW-SQuiRT.spit

4. Shaded values denote concentrations exceeding the NOAA SQuiRT TEC standard.

Draft Table 7 - Summary of Seep Analytical Results : August 2001 through May 2020 2020 Semi-Annual Summary Report Coakley Landfull Superfund Site Greenland and North Hampton, New Hampshire

SAMPLE IDENTIFICATION	NHDES S	URFACE	1.4	1.4	ы	La	L L4	ы	1	1	ы	L4	ы	ы	ы	и	1-DUP L	-1 L-1-D	IP L-1	L-1-DUP	L4	L-1-DUP	L4	L-1-DUP	ы	L-1-DUP	ы	L-1-DUP	И	L-1-DUP	И	L-1-DUP	L-1 L-1-DUP
DATE SAMPLED	WATER ST	ANDARDS	16-Aug-01	7-Aug-02	27-Aug-03	25-Aug-04	25-Aug-0	05 30-Nov-0	06 13-No	v-07	12-Aug-08	19-Aug-09	17-Aug-10	19-Aug-11	30-Aug-12	14-Aug-13 14	Aug-13 17-S	ep-15 17-Sep	-15 1-Jun-1	6 1-Jun-16	28-Apr-17	28-Apr-17	21-Sep-17	21-Sep-17	30-Apr-18	30-Apr-18	28-Oct-18	28-Oct-18		15-May-19		0-Oct-19 5/2	20/2020** 5/20/2020
COMMENTS DARAMETER ANALYZED	ACUTE	CHRONIC				-		ID 10424	10									The second second					-										
VOLATILE ORGANIC COMPOUNDS (ug/L)																				-													
Acetone	NSE	NSE	NA	NA	NA	NA	NA	NA	N	A.	NA	NA	NA	NA	NA	NA	NA N	A NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.5 J	5 U	10 U 10 U
Benzene Chlorobenzene	5300 250	NSE	3	2	2	20	2	2			10	1.9	2	2.0	2	2	2	2 2 8 14	1	1	10	10	1	1	<1 2.6	<1	<1	<1	1.5	1.4	1.2	1.2	10 1.1
Chiproethane	NSE	NSE	8	6	6	3	6	20			50	4.4	50	4.1	50	50	50 5	U 5U	5 U	50	50	50	50	50	<5	<5	<5	<5	50		2.1		211 211
1,4 Dichlorobenzene (See Note 4)	1120	763	20	3	2	2 U	3	2			10	2.5	3	2.3	2	2	2	2 2	2 J	2 J	10	10	2	2	4	<1	<1	<1	1.5	1.6	1.7 J	1.8 J	1.2 1.3
1,3-Dichlorobenzene (See Note 4) 1,2 Dichlorobenzene (See Note 4)	1120	763	20	20	20	20	20	20	1	U	10	10	2	1 U 1.2	10	10	10 1	U 1U U 1U		1 U,J 1 U	10	10	1 U 1 U	10	<1	<1	<1	<1	10	1U 1U		2.5 U 0.6 J	12 1.3 10 10 10 10
Isopropylbenzene	NSE	NSE	20	20	2 U	2 U	2 U	2	2		10	1.5	2	1.6	1	1	1	1 BDI	10	10	10	10	10	10	<1	<1	<1	<1	10	10	0.31 J	0.33 J	10 10
Diethyl Ether	NSE	NSE 620	31	10 U	10 U	10 U	10 U	10 U		3		13	15	12	10	10		1 10		7	5 U	5U 5U	7	7	\$	<5	<5	5	8.8	8.6	8.6	8.2	6.6 6.9
Naphthalene Tetrahydrofuran	2300 NSE	NSE NSE	32	10 U 30 U	10 U 30 U	30 U	10 U 30 U	10 U 30 U	50	50	5 U 10 U	12	10	5 U 10 U	10 U	5 U 10 U	100 1	U 5U 0 10	5 U 10 U	10 U	5 U 10 U	10 U	5 U 10 U	10 U	<10	<10	<10	<10	5 U 10 U		7.3	1.2 J 6.8	2U 2U 10U 10U
Tert-Butyl Alcohol	NSE	NSE	NA	NA	NA	NA	NA	NA	N	A.	NA	NA	NA	NA	NA	NA	NA N	A NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	20	30 0 30 0
Toluene LOW LEVEL 1,4-DIOXANE (ug/L)	17500	NSE	2 U	20	2 U	2 U	20	20	1	U	10	10	1	10	10	10	10 1	U 2J	10	10	10	10	10	10	<1	<1	<1	<1	10	10	0.75 U	0.75 U	10 10
1,4-Dioxane	NSE	NSE	NA	NA	NA	NA	NA	NA	N	A	NA	26	20	25	28	22	24 N	A NA	NA	NA	1.5	1.3	17	18	4.9	4.1	<0.2	<0.2	12	12	15.3	14.5	8.8J 9.6
METALS (ug/L)			Total	Total	Total	Total	Total		Total	Dissolved	Total	Total	Total	Total	Total	Total	Total To	tal Tota	I Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total Total
Aluminum Antimony	750 9,000	87	3200	4100 2 U	9,500 2.U	29,000 4 U	18,000 6 U	NA	50 U	50 U	170 1 U	50 U 1 U	50 U	50 U 1 U	50 U 1 U	50 U 1 U	80 50	U 50U	50 U	50 U 1 U	80	70	100 U 1 U	100 U	100 U	100 U 1 U	140	140 1 U	100 U 1 U	100 U 1 U	16.63 1 U	7.914 J	50 U 50 U 1 U 1 U
Arsenic	340	150	83	23	67	150	300	NA	7	6	4	4	7	6	4	5	7	5 6	3	3	2	2	5	5	1.1	1.2	2.3	2.3	21	2.1	4.246		18 2.2
Barium	NSE	NSE	1300	260	610	2,200	4,600	NA	97	99	11	100	100	97	87	92	110 1	0 96	74		11	10	75	78	25	25	6.2	6	71	70	92.02	93.52	62 66 1U 1U
Beryllium Cadmium	130 0.39	0.21	2 U	4 U 2 U	4 U 2 U	4 U	20	NA	10	10	10	10	10	10	10		1U 1 1U 1	U 1U U 1U	10	1U 1U	10	10	10	10	10	10	10	1 U 1 U	1U 1U	1U 1U	10	10	1U 1U 02U 0.2U
Calcium	NSE	NSE	120,000	97,000	100,000	140,000	150,000) NA	50,000	62,000	20,000	64,000	71,000	1 U 63,000	79,000	56,000		000 67,00	0 52,000	52,000	17,000	16,000	1 U 57,000	57,000	28,000	29,000	10,000	10,000	64,000	58,000	0.2 U 67,500	68,500 58	8,000 J+ 59,000 J-
Chromium	152 NSE	19.8 NSE	20	13	27	55	70	NA	10	10	1	10	10	10		10	10 1	U 1U U 1U		10	10	1	10	10	10	10	1.4	1.7	1U 1U	1U 1U	0.4608 J 0 0.8658 J	0.4158 J	10 10 10 10
Cobelt Copper	2.9	2.3	20	5	13	36	40	NA	10	1	8	10	10	1	10	10	10 1	0 10	10	10	9	10	10	10	1 U 5.6 J+	6.4 J+	10	10	10	10	10	10	10 10
Iron Lead	NSE 10.5	1,000	350,000	130,000	330,000	1,000,000	1,100,000	IO NA	30,000	27,000	1,200	35,000	34,000	31,000	31,000	35,000	5,000 35,	000 33,00	0 36,000	35,000	2,800	2,500	32,000	33,000	8,800	8,700	450	390	35,000	36,000	42,200	44,000 3	32,000 39,000
Magnesium	10.5 NSE	0.41 NSE	2 U 49.000	43,000	8 36,000	34.000	6 U 43.000	NA NA	10	1 U 25,000	10	10	1 U 21.000	1 U 21.000	10	1 U 16,000	1U 1 6.000 17	U 1U	1 U 0 18,000	1 U 18.000	1 U 3 400	10	10	1 U 19,000	1 U 7,200	1 U 7.300	10	10	1 U 19.000		1 U 20.000		17.000 17.000
Manganese	NSE	NSE	7,600	5,700	5,900	10,000	9,800	NA	2,700		98	3,200			3,300	2,500	2,500 2,40		J+ 2,700	2,700	400	370		2,900	1,200	1,200	29	23	2,800	2,900	4.009	4.015	3,300 3,300
Mercury	1.4	0.77	0.2 U	02 U 18	0.2 U	0.2 U	0.2 U 40		0.1 U	0.1 U	0.1 U	0.1U	0.1 U 6	0.1 U	0.1 U	0.1 U	0.1U 0.	U 0.1	J 0.1 U	0.1 U	0.1 U	0.1 U	02 U	0.2 U	02 U 37	0.2 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U	0.1 U 0.1 U 5.1 5
Nickel	120 NSE	13.3 NSE	- 22	18	28	32 38.000	40		34,000	8	7.800	37,000	33,000	4 30,000		5	5 2000 28	000 27.0	5 J	25,000	4	5,300	25,000	26,000		4.5		2.4	4.7	5	5.503		5.1 5
Potassium Selenium	NSE	5	7	8	4	3	20	NA	10	10	10	10	2	2	5	5	5	5 5	3	3	4	3	4	4	1U	10	10	10	10	10	5 U	F 11	10 10
Silver Sodium	0.2 NSE	NSE	20	20	2	4 U 140.000	6 U 150.000			1 U 150.000	1 I 10 U	1 U 100 000	1 U 110.000	1 U 91 000		1 U 78,000		U 1U	10,1	1 U,J 62,000	10	1 U 8 000	1 U,J 65 000	1 U,J 71,000	1 U 23,000	1 U 24,000	1 U 5 000 U	10	10	10	0.4 U 83,440	0.4 U	1U 1U 58.000 58.000
Thallium	1,400	40	220,000	200,000		4 U	6 U			10,000	100	10,000	10,000	10					10	10	10	1.0			10	10	10	5,000 U 1 U	10	10,000	10	10	10 10
Vanadium Zinc	NSE	NSE	46	13	36	89	220	NA	1	1	2	2	1	10	10	10	10 1	U 1U	5 U	5 U	5 U	50	1 U 5 U	5U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1U 1U 5U 5U 72 13
Zinc PERFLUORINATED CHEMICALS BY MODIFIED 537 - (ng/L)	30	30	45	51	140	390	690	NA	50	650	56	12	6	5 U	50	5 U	10 5	U 5U	50	50	38	34	5 U	5 U	34	37	19	19	9	14	10 U	8.138 J	7.2 13
Perfuorobutanoic Acid (PFBA)	NSE	NSE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA N	A NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.6	31.4	37.8 35.9
Perfluoropentanoic acid (PFpEA)	NSE	NSE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA N	A NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA 6.27	59.1	60.6	60.1 58.2 5.69 5.48
Perfluorobutanesulfonic acid (PFBS) Perfluorohexanolx Acid (PFHxA)	NSE NSE	NSE	NA	NA NA	NA	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	NA NA	NA NA	A NA	NA	NA NA	2.09 U	2.13 U	4.85 J NA	5.50 J	2.72 J NA	2.99 J NA	4.2 U	4.13 U NA	6.47 NA	6.27 NA			5.69 5.48 101 J 101 J
Perfluoroheptanoic acid (PFHpA)	NSE	NSE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA N			NA	175	170	111	109	208	196	523	483	133	134	127	130	164 J 170 J
Perfluorohexanesulfonic acid (PFHxS)	NSE	NSE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA N	A NA	NA	NA	9.12 J	9.39 J	19.0 J	19.4 J	12.0 J	11.6 J		9.77	18.1		25.6		25.7 J 23.8
Perfluorooctanoic acid (PFOA) 1H, 1H, 2H, 2H-Perfluorooctanesulfonic Acid (6:2FTS)	NSE	NSE	NA	NA NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA		NA NA	A NA	NA	NA	656 NA	736 NA	319 NA	310 NA	532 NA	492 NA	1,040 NA	948 NA	369 J	369 NA	340 2.86 J	344 5.22 4	501 J 456 4.58 U 4.38 U
Perfluoroheptanesulfonic Acid (PFHpS)	NSE	NSE	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA		NA N			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.72	4.79	2.93 J 2.26
Perfluorononanoic acid (PFNA) Perfluorooctanesulfonic (PFOS)	NSE NSE	NSE	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	NA NA	A NA		NA	308 1,930 D	310 1,560 J	70.3 164 J	75.6	207 J	193	366	339	83.6 137 J	80.5	71.6 154 J+	74.2	114 102 239 J 204
Perfluorodecanoic Acid (PEDA)	NSE	NSE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA N	A NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.2	17.9	22.4 19.5
1H, 1H, 2H, 2H-Perfluorodecanesulfonic Acid (8:2FTS)	NSE	NSE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		A NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 J+	1.45 J+	4.58 U 4.38 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA) Perfluoroundecanoic Acid (PFUnA)	NSE NSE	NSE	NA	NA NA	NA NA	NA	NA	NA	NA	NA NA	NA	NA	NA	NA	NA		NA NA			NA	NA NA	NA	NA	NA	NA	NA	NA NA	NA	NA NA	NA NA	2.18 U 1.76 J	1.65.1	4.58 U 4.38 U 2.60 J 2.14 J
Perfluorodecanesulfonic Acid (PFDS)	NSE	NSE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA N	IA NA	NA	NA	NA	NA	NA	NA	NA	NA	NA.	NA	NA	NA	2.18 UJ	2.21 W 4	4.58 UJ 4.38 U
Perfluorooctanesulfonamide (FOSA) N-Ethyl Perfluorooctanesulfonamidoacetic (NEtEOSAA)	NSE	NSE	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA			A NA		NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	1.83 J	1.62 J	15.6 12 16.9 13.30
Perfluorododecanoic Acid (PFDoA)	NSE	NSE	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA			NA N				NA	NA	NA	NA	NA	NA	NA	NA	NA		2.18 U		4.58 U 4.38 U
Perfluorotrodecanoic Acid (PFTrDA)	NSE	NSE	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA				A NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.18 U	2.21 U	4.58 U 4.38 U
Perfluorotetradecanoic Acid (PFTA) Perfluorogexadecanoic Acid (PFHxDA)	NSE NSE	NSE	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA			NA NA	A NA		NA	NA	NA	NA	NA	NA NA	NA	NA NA	NA	NA	NA	2.18 U 4.37 U	2.21U 4	4.58 U 4.38 U 4.58 U 4.38 UJ
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	NSE	NSE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA N	A NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.8 U	22.1 U 2	23.4 UJ 21.9 U
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA) N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	NSE	NSE	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA		NA NA	A NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.8 U	22.1 U 2	23.4 UJ 21.9 U 22.9 U 21.9 U
N-Methyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	NSE	NSE	NA	NA	NA	NA	NA			NA	NA		NA	NA		NA		A NA			NA	NA	NA		NA	NA	NA		NA	NA	54.6 U	55.3U 2	22.90 21.90 22.9U 21.9U
Combination of PFOA and PFOS	NSE	NSE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA N	A NA	NA	NA	2,586 D	2,296 J	483 J	460	1,099	1,063	2,250	2,158					740 660
GENERAL CHEMISTRY Chemical October Demand (mail)	NSE	NSE	190	178	690	292	27*	NA	-		60	50	64	40		E2	ee ,	2 40	40	10	20	22	£6 1	40	20	10	44	44	10	26.1	40 la	54 IA	28 1 24
Chemical Oxygen Demand (mg/l) Ammonia-N (mg/l)	36.1	5.91	44	41	44.8	282		NA	3	3	0.62	21	22	25	24	21	19 2	3 23	19	18	1.5	1.3	19	48	5.8	6.2	46	0.16	10	20 J 17 J+	49 J+ 16.7	16.6	28 34 17.0 17.0
						FIELD PAR	METERS											_															
NOTES: 1. U = Not detected above the reporting limit. NA = Not Analyzed.	I = ostimated	t = estimated	high III a up	viscied orders	alad	pH (stand	ture (degrees	Celcius)	1	2	18	64	16	15	16	6.3	NA 1 NA 6	5 NA	11	NA	67	NA	15 6.3	NA	9 6.4	NA	7	NA	8	NA NA	13 6.4	NA NA	12 NA 6.5 NA
2. NSE indicates no standard has been established for the indicate	ed parameter.	+ = estinated	nign. 00 - 01	Necieu essina	aleu.	Specific (Conductivity (u	(us/cm)	1,6	00	176	1,459	1,500	821	1,399	1,220	NA 1.3	83 NA	1,223	NA	189	NA	1,066	NA	550	NA	85	NA	1,044	NA	126	NA	
3. NHDES Surface Water Standard are listed in Env Wg 1700						Dissolved	d Oxygen (mg	a/i)	2	2	4.9	1,3	0.6	3.4	2.3	2.3	NA 2	6 NA	0.8	NA	5.1	NA	<0.5	NA	5.6	NA	11.3	NA	<0.5	NA	0.8	NA	3.2 NA
 Acute and chronic standards based on total dichlorobenzenes Ammonia-N standard is based on pH of 7.0 at 14 C, salinoids n 	ot present.					Turbidity Oxidation	(N10) Reduction Pr	Nm) istneto	13	8	90 42	-38	-99	-73	17	-102	NA -1	3 NA 11 NA	-60	NA	-25	NA	-36	NA	-23	NA	43	NA	<5 -64	NA NA	-78	NANA	-67 NA
6. A bold entry indicates the parameter exceeded the acute surfac	e water standar	1.				-																											
 Shaded values indicate the parameter exceeded the chronic sur 8. Bold and shaded values indicate exceedances of both NHDES i 							LABORATO	ORY ANALYT	ICAL METHODS (Not Confirmed	for Analyses Pe	nformed Prior	0 2010)																				
 Bold and shaded values indicate exceedances of both NHDES in 9. Volatile organic compounds, 1,4-dioxane, and metals results an) analyzed by EPA																								
10. Only volatile organic compounds detected in one or more lead	hate sample du	ing the period	shown are list						PA Method 200.8																								
 Only volatile organic compounds detected in one or more lead Refer to Table 2 and 3 for Field Parameter unit abbreviations 	nate sample du	ing the period	shown are list	ted.			4. Chemica 5. Ammoni	al Oxygen Den hia-N analyzed	nand analyzed by 4 by H8000	500-NH3																							
13. The laboratory detection limits (for 2013) were above the either	r the Acute or C	hronic standar	for the follow	wing																													
parameters (detection limit in parantheses): Cadmium (1 ug	(1) Lead (1 ug/) and Silver (1	ug/L).																														
14. Location resampled for PFAS on June 10, 2020 due to the init																																	
15. Perfluorinated Chemical reults are in nanograms per liter (no/L	tial sample arriv	ng at the lab o	utside of the n	required temp	erature range.																												
 Perfluorinated Chemical reults are in nanograms per liter (ng/L 16# = les than the number indicated. 	tial sample arriv	ng at the lab o	utside of the n	required temp	erature range.																												
15. Perfuorinated Chemical reults are in nanograms per liter (ng/L	tial sample arriv	ng at the lab o	utside of the n	required temp	erature range.																												