Record of Decision For A Source Area Remedial Action At Landfill 5

Pease Air Force Base, NH

September 1993

Prepared for:

Headquarters Air Force Base Disposal Agency (HQ AFBDA) The Pentagon, Washington, DC 20330

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LANDFILL 5 RECORD OF DECISION

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DECLARATION

SITE NAME AND LOCATION

Pease Air Force Base (PAFB), Landfill 5, New Hampshire

STATEMENT OF BASIS AND PURPOSE

This decision document presents a selected source control remedial action designed to provide containment of landfill wastes at Landfill 5, Pease AFB, NH. This decision document was developed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act as amended by the Superfund Amendments and Reauthorization Act of 1986, and, to the extent practicable, the National Contingency Plan. Through this document the Air Force plans to remedy the threat to human health, welfare or the environment posed by contaminated soil, debris, and sediment associated with Landfill 5. Contaminated groundwater, surface water, and additional sediment associated with Landfill 5 will be addressed in the Zone 1 FS. This decision is based on the Administrative Record for the site. The Administrative Record for the site is located at the Information Repository in Building 43 at Pease International Tradeport (formerly Pease AFB, New Hampshire). The Administrative Record Index as applies to Landfill 5 may be found in Appendix D.

The State of New Hampshire Department of Environmental Services (NHDES) and the U.S. Environmental Protection Agency (USEPA) concur with the selected remedy.

ASSESSMENT OF THE SITE

Actual or threatened releases of hazardous substances from Landfill 5, if not addressed by implementing the response action selected in this Record of Decision (ROD), may present an imminent and substantial endangerment to public health, welfare, or the environment.

DESCRIPTION OF THE SELECTED REMEDY

This action addresses the principal threat posed by Landfill 5 by preventing endangerment of public health,, welfare, or the environment by implementation of this ROD which calls for consolidation and containment of landfill wastes.

The selected remedy includes excavation and consolidation, above the groundwater table, of saturated Landfill 5 debris and construction of a cap over Landfill 5. It is also proposed that all soil and debris from Landfills 2 and 4 would be excavated and transported to Landfill 5 for consolidation and used as subgrade fill material prior to capping of Landfill 5. A final decision under CERCLA for Landfills 2 and 4 will be required prior to implementation of the proposed consolidation plan. The selected remedy also includes

extraction of groundwater to facilitate excavation of saturated landfill debris, treatment of the groundwater in an on-site mobile treatment system and discharge of treated groundwater to the base wastewater treatment facility. --

The selected remedy is expected to prevent the potential for direct contact between contaminated landfill soils/debris and human and ecological receptors, and to minimize contaminant leaching to sediments and surface waters of Flagstone Brook and Railway Ditch and to groundwater.

The treatment processes used to treat groundwater extracted during construction dewatering will ultimately be selected by the remedial contractor providing the mobile treatment system. Technologies considered in the Feasibility Study include carbon adsorption, ion exchange and multi-media filtration.

The preferred discharge method for the treated water is to the base wastewater treatment facility. Coordination with the City of Portsmouth as the current operator, would be required prior to discharge. Treated water will meet the pretreatment criteria established by the City of Portsmouth. Ultimate discharge will be to the Great Bay via a National Pollutant Discharge Elimination System (NPDES) permit.

As part of Landfill 5 closure the Air Force will submit a monitoring program for approval by the NHDES and the USEPA. The purpose of the monitoring program is to verify the effectiveness of the containment system.

STATUTORY DETERMINATIONS

The selected source control remedy is protective of human health and the environment, complies with federal and state requirements, that are legally applicable or relevant and appropriate to the remedial action, is cost effective and uses permanent solutions. Treatment is not the principal element of the source control alternative because treatment of landfill debris is not practical or cost-effective given the size and heterogeneity of the landfill contents. The selected source control remedy may however involve treatment of groundwater extracted during construction dewatering, which should remove much of the contaminants currently present in groundwater. Because this remedy will result in hazardous substances remaining on site, a review will be conducted by the USAF, the USEPA, and the NHDES within five years after landfill closure to ensure that the remedy is providing adequate protection of human health and the environment. This review will be conducted at least every five years as long as hazardous substances remain on site above health-based cleanup levels.

The foregoing represents the selection of a remedial action by the United States Air Force and the U.S. Environmental Protection Agency, Region I, with concurrence of the New Hampshire Department of Environmental Services. Concur and recommended for immediate implementation:

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By:	Date:	
	Alan P. Babbitt	
Title:	Deputy for Hazardous Materials and Waste Deputy Assistant Secretary Of The Air Force (Environment, Safety and Occupational Health)	
By:	Date:	
	Paul G. Keough	
Title:	Acting Regional Administrator, USEPA	

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Concur and recommended for immediate implementation:

24/93 91 Date:___

JAMES F. BOATRIGHT Deputy Assistant Secretary of the Air Force (Installations)

By: Pulleve R Paul G. Kepugh _Date:_9 -7-93 2

Title:

S. F. C. C.

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Acting Regional Administrator, USEPA

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I. SITE NAME, LOCATION, AND DESCRIPTION

Pease AFB is a National Priorities List site consisting of numerous areas of contamination. This ROD addresses source area contamination at Landfill-5 (LF-5). LF-5 encompasses approximately 23 acres in the northern section of Pease AFB. Records indicate that LF-5 was used continuously from 1964 to 1975 as the primary base landfill, although some disposal occurred as late as 1979. Domestic and industrial refuse reportedly disposed of in the landfill includes waste oils and solvents, paints, paint strippers and thinners, pesticide containers and empty cans and drums. In addition, the landfill received sludge from the base industrial wastewater treatment plant. LF-5 has been investigated under the Air Force Installation Restoration Program (IRP). Results of the investigation indicate that sediments, surface water, soil and groundwater have been impacted by activities at LF-5.

The 4,365-acre Pease Air Force Base (AFB) is located in the towns of Portsmouth and Newington, Rockingham County, New Hampshire (approximately 3 miles northwest of the City of Portsmouth). As shown in Figure 1, Pease AFB is located on a peninsula bounded on the west and southwest by Great Bay; on the northwest by Little Bay; and on the north and northeast by the Piscataqua River. The base is situated in the approximate center of the peninsula.

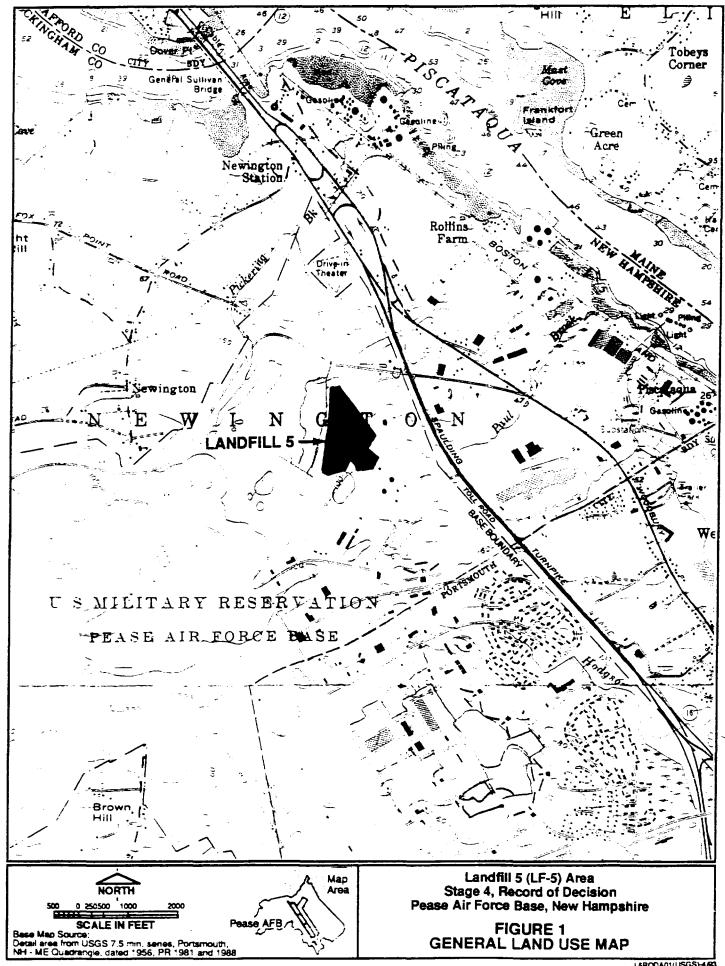
At the beginning of World War II, an airport at the current Pease AFB location was used by the U.S. Navy. The Air Force assumed control of the site in 1951, and construction of the present facility was completed in 1956. During its history, Pease AFB has been the home of the 100th Bombardment Wing and the 509th Bombardment Wing whose mission was to maintain a combat-ready force capable of long-range bombardment operations. Over time, various quantities of fuels, oils, solvents, lubricants, and protective coatings were used at the base, and releases of contaminants into the environment occurred.

The New Hampshire Air National Guard (NHANG) relocated the 157th Military Airlift Group (MAG) from Grenier Field at Manchester, NH, to Pease AFB in 1966. The mission of the group was changed in 1975, when it was designated as the 157th Air Refueling Group. In December 1988, Pease AFB was selected as one of 86 military installations to be closed by the Secretary of Defense's Commission on Base Realignment and Closure. The base was closed as an active military reservation on 31 March 1991. The New Hampshire Air National Guard remains at the airfield and will use some of the existing facilities. The remainder of the reservation will be divided between the State of New Hampshire's Pease Development Authority (PDA), the Department of the Interior, and the USAF.

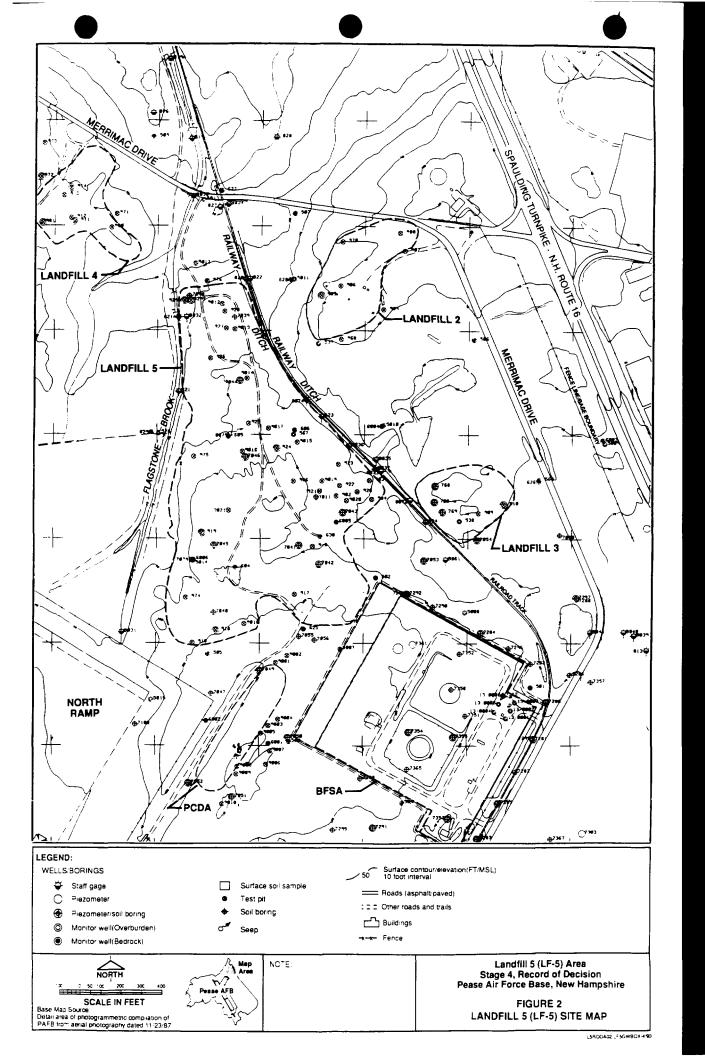
Land use in the vicinity of LF-5 varies. LF-5 is bordered by Merrimac Drive to the north, an abandoned railroad bed to the east; Flagstone Brook to the west; and a Bulk Fuel Storage Area (BFSA) to the southeast (see Figure 2). Zone features near LF-5 include Landfill-2 (LF-2) to the northeast; Landfill-3 (LF-3) to the east; the BFSA to the southeast; a Paint Can Disposal Area (PCDA) to the south; the Air National Guard's (NHANG) North Ramp to the west; and Landfill-4 (LF-4) to the northwest (see Figure 1). LF-2, LF-3, LF-4, LF-5, and the PCDA are inactive disposal areas located within restricted access areas. The BFSA is still used by the NHANG for bulk fuel storage. The NHANG uses the north ramp for large aircraft maintenance and as a temporary staging area. Undeveloped land is located along the western boundary of LF-5.

A portion of the site located at the southern entrance of LF-5 was used as a temporary staging area for drums that were removed from the eastern area of LF-5 in the fall of 1989. This area continues to be used to temporarily store drummed solids and liquids generated during investigation activities conducted as part of the basewide Installation Restoration Program (IRP). Stored drummed solids and liquids are eventually disposed of off-base.

Off-base, a commercial and residential area is located along Spaulding Turnpike, approximately 1,000 feet northeast of the Pease AFB eastern boundary and approximately 1,500 feet north of LF-5. An abandoned outdoor theater and a water supply booster station are located approximately 150 feet north of the Pease AFB boundary. A small shop and a shopping mall are located on the eastern side of Spaulding Turnpike.



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There are approximately 3,700 dwellings within a 1-mile radius of Pease AFB. Based on water usage surveys conducted in 1988 and 1992 and on available U.S. Geological Survey (USGS) and New Hampshire Department of Environmental Services (NHDES) information, it was determined that a number of these dwellings have wells and or springs located on their associated properties. The Town of Newington in particular has a large number of private wells. The vast majority of Portsmouth residences surveyed are serviced by town water only. A complete compilation of area springs and wells for Pease AFB, based on information available to date can be found in the Pease AFB Off-Base Well Inventory Letter Report (F-518). Information is presented in tabular form in Tables 1 through 7 of the Letter Report. Well location maps are provided as attachments to the report.

Pease AFB is located on a peninsula within the Piscataqua River drainage basin (see Figure 1). Drainage is radially away from the peninsula, into Great Bay toward the west, Little Bay to the northwest and north, and the Piscataqua River to the east. Little Bay flows into the Piscataqua River at the northern end of the peninsula. Great Bay, Little Bay, and the Piscataqua River are all tidally influenced. Consequently, these bodies of water are subject to semidiurnal water-level variations.

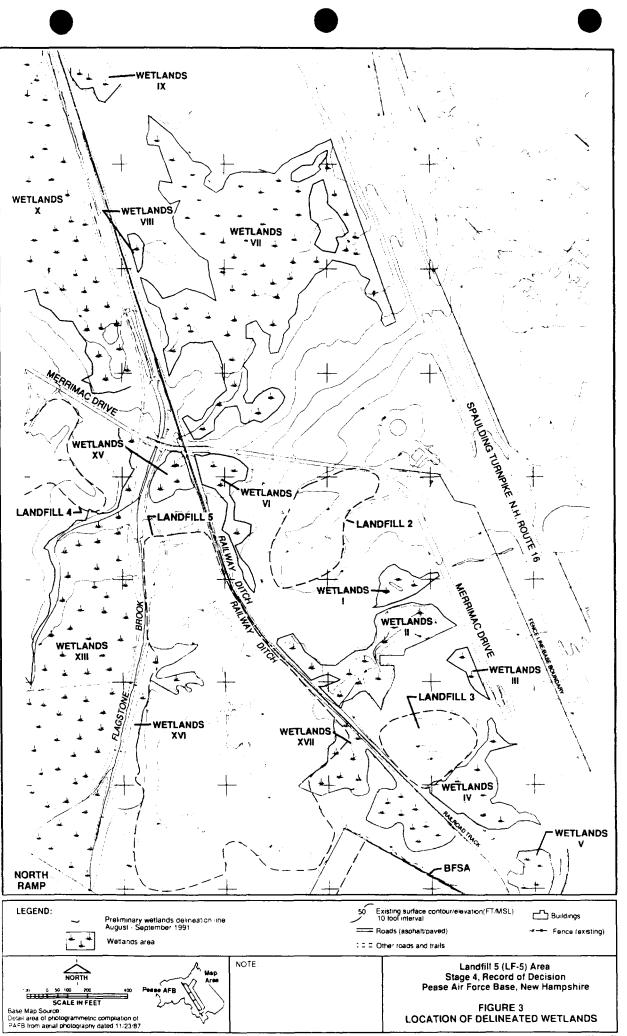
There are several surface water pathways that channel surface runoff away from the LF-5 area toward the Piscataqua River (see Figure 2). Surface drainage from LF-2, and portions of LF-3 and LF-5, flows into ditches located on both sides of the railway spur (collectively known as the Railway Ditch), which subsequently flows north and enters a swampy area east of the railroad tracks. The Railway Ditch eventually joins with Flagstone Brook, approximately 3,000 feet north of LF-5.

A portion of LF-5's surface runoff flows directly into Flagstone Brook, which flows north through a series of weirs and empties into the Piscataqua River near the General Sullivan Bridge. The total drainage area of the stormwater collection system within the headwaters of Flagstone Brook is approximately 78 acres, which includes a number of industrial areas of the base. Below the confluence of the eastern and western branches, Flagstone Brook flows north along the western edge of LF-5. Surface runoff seeps from LF-5 discharge directly into Flagstone Brook.

In addition to the Railway Ditch and Flagstone Brook, several wetland areas exist in the LF-5 vicinity. On and immediately adjacent to the landfill are three wetlands: Wetlands XV, XVI, and XVII (see Figure 3). Wetlands XVI drains to Flagstone Brook and Wetlands XV and XVII drain to the Railway Ditch. East of the landfill, between the railroad and Merrimac Drive, are Wetlands I, II, III, IV, V, and VI. Wetlands I, III, IV, and V drain toward Merrimac Drive, and Wetlands II and VI drain to the Railway Ditch. North of the landfill, there are several wetlands associated with the Railway Ditch and Flagstone Brook. Wetlands VII and VIII are associated with the Railway Ditch until it reaches Wetlands IX and joins Flagstone Brook through a culvert under the railroad. Wetlands X is located north of LF-5 and west of Flagstone Brook and has no identified surface water connection to Flagstone Brook. However, subsurface flow may exist under the roadbed. West of the landfill, Wetlands XIII is immediately adjacent to Flagstone Brook and a portion of it flows into Flagstone Brook near its conjunction with Merrimac Drive. It is not known if LF-5 is within a 100-year flood plain, since flood plain location maps were not available for Pease AFB.

A more complete description of the site can be found in the Stage 3C Landfill-5 Remedial Investigation (RI) Report (F-500).

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II. SITE HISTORY AND ENFORCEMENT ACTIVITIES

A. Site Use and Response History

Records indicate that LF-5 was used continuously from 1964 to 1975 as the primary base landfill, although some disposal occurred as late as 1979. Domestic and industrial refuse reportedly disposed of in the landfill includes waste oils and solvents, paints, paint strippers and thinners, pesticide containers, and empty cans and drums. In addition, the landfill received an estimated 20,000 gallons of sludge from the base industrial wastewater treatment plant. Sludge from the base wastewater treatment facility, which may have contained trichloroethylene (TCE) residues, grass clippings, wood chips, miscellaneous soils, and concrete rubble, was temporarily stored at the landfill pending ultimate disposal. As previously discussed, a small drum staging area used for temporary storage of drums encountered on-base, miscellaneous soils, and metals is located at the southern landfill entrance. Based on aerial photographs, this area may have been a drum storage area as early as 1960.

One method of landfilling used between 1964 and 1975 was trenching. Based on review of aerial photographs and other information, trenches were constructed 15 to 20 feet wide, 150 to 300 feet long, and 6 to 8 feet deep (or to bedrock). The trenches were then filled with refuse and covered with local fill. Today, the settled trenches appear to cover about one-third of the 23-acre landfill. The trenches are located in the north-central, central, and southwestern portions of the landfill. Surface filling or backfilling was also a major landfilling technique used at LF-5. The fill between the trench areas was probably emplaced using these methods.

In 1983, an IRP Phase I Problem Identification/Records Search was conducted at Pease AFB. The study identified LF-5 as a potential source for the release of contaminants into the environment. In response to this finding, a pre-survey was conducted to obtain sufficient information for use in the planning of a more detailed study. The pre-survey was completed in 1984. Based on the pre-survey, Remedial Investigations (RIs) were conducted in accordance with the Comprehensive Environmental Response, Compensation, and Liability

Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986, at LF-5 and at 18 other IRP sites at Pease AFB. The investigations were conducted in three stages between 1984 and 1991.

During Stage 2 of the investigation (October 1987 through May 1989) 5- and 55-gallon drums were identified in LF-5. Because these drums were determined to present a potential threat to human health and the environment, fast-track remedial action was initiated. Drum removal was completed during Stage 3 RI field activities. The RI field work was completed in October 1991. During drum removal, 54 85-gallon overpacks containing drums and waste material and over 2,000 empty, crushed drums were removed and disposed of at a licensed off-base disposal facility.

To date, LF-5 RI activities have included geophysical surveys, sampling of surface and subsurface soils, test pit investigations, sampling of groundwater beneath and surrounding LF-5, sampling of sediments and surface water in Flagstone Brook and the Railway Ditch, a wetlands determination in the area of LF-5, and measurement of groundwater levels and hydraulic gradients at LF-5. Table 1 provides a summary of RI activities performed to date.

A more detailed description of the LF-5 site history can be found in the RI in Subsection 2.1.

B. Enforcement History

The enforcement history at LF-5 is summarized as follows:

- In 1976, the Department of Defense (DOD) devised a comprehensive Installation Restoration Program (IRP) to assess and control environmental contamination that may have resulted from past operations and disposal practices at DOD facilities.
- In 1983, an IRP Phase I Problem Identification/Records Search was conducted at Pease AFB. As a result, a total of 18 IRP sites were identified and 16 were recommended for follow-on investigations (Phase II).

Summary of Site Investigations, LF-5 and Vicinity, Pease AFB, NH

Stage 1 11/84 Surface water sampling SW-2,3,4,6,7,8,9* E 11/84 Surface water sampling SO2 (RFW-2) E1 184-2/85 Monitor well installation and bo5 (RFW-5) SU L1 17/84-2/85 Monitor well installation and bo5 (RFW-5) SU L1 3/85 Wonitor well installation and bo5 (RFW-5) SU L1 3/85 Surface water sampling (round 1) S02, 505 So So 3/85-4/85 Groundwater sampling (round 2) S02, 505 So So 3/85-5/85 Surveying So2, 505 So R 5/85 Surveying SO2, 505 So R 8/85-9/85 Surveying So2, 505 So So	Sampling Points Purpose
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Surface water samplingSW-2,3,4,6,7,8,9°4/85Groundwater sampling (round 1)502, 5055/85Groundwater sampling (round 2)502, 5055/85Surveying502, 5059/85Surface water resamplingSW-2,3,4,6,7,8,9°9/85Groundwater resampling502, 5059/85Slug test502, 5059/85Slug test502, 5059/85Slug test5027.1/88Aerial photograph reviewPhotographs from 1952, 1960,7.1/88Magnetometer survey25-x 50-foot grid	RFW-2) Establish groundwater monitoring points upgradient of LF-5.
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Magnetometer survey 25- x 50-foot grid	ographs from 1952, 1960, Evaluate areal extent of LF-5. ITR No. 1 ^b 976
10- x 10-foot subgrids	50-foot gridEvaluate areas of buried ferrousITR No. 1b10-foot subgridsmaterial (i.e., drums).

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Summary of Site Investigations LF-5 and Vicinity Pease AFB, NH (Continued)

Date	Activity	Scope	Purpose	Report
Stage 2 (continued)	d)			
10/87-1/88	GPR survey	10- x 10-foot subgrids	Verify anomalous magnetometer readings.	ITR No. 1 ^b
Begin 11/87	Water level measurements (quarterly)	Stage 1 wells, Stage 2 wells, piezometers, gages as installed	Evaluate hydrologic characteristics.	ITR No. 1 ^b
12/87	Survey	Monitor wells 502 and 505	Establish locations and elevations.	ITR No. 1 ⁶
3/88-4/88	Test pit excavation	15 pits: 915 to 929	Investigate magnetic and GPR anomalies; determine depth and character of fill.	ITR No. 2 ^c
3/88-4/88	Piczometer installation	In test pits 919, 920, 924, 929 (north), and 929 (south)	Obtain water level measurements.	ITR No. 2°
4/88	Staff gage installation	818 to 824	Obtain water level measurements; establish surface water and sediment sampling locations.	ITR No. 2 ^c
4/88-5/88	Survey	Test pits, borings, gages, and piezometers	Determine clevations and locations.	ITR No. 2°
9/88-10/88	Bedrock well installation and development	604, 605, 606	Evaluate bedrock water quality.	ITR No. 34
10/88	Test pit excavation	974, 975, 976	Evaluate refuse type and saturated thickness.	ITR No. 3 ^d
11/88-12/88	Survey	Monitor wells and test pits	Determine elevations and locations.	ITR No. 3 ^d

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Summary of Site Investigations LF-5 and Vicinity Pease AFB, NH (Continued)

Date	Activity	Scope	Purpose	Report
Stage 2 (continued)	1)			
11/88	Surface water and scdiment sampling	818 to 824	Evaluate surface water for VOCs, SVOCs, pesticides/PCBs, herbicides, total metals, and cyanide. Evaluate sediment for VOCs, SVOCs, pesticides/PCBs, metals, herbicides, and TPHs.	ITR No. 4°
11/88	Minirate pumping test	604	Estimate hydraulic conductivity.	ITR No. 4 ^c
11/88-12/88	Round 1 groundwater sampling	604, 605, 606	Evaluate groundwater for VOCs, SVOCs, pesticides/PCBs, herbicides, dissolved metals, common anions, total hardness, and nitrate/nitrite.	ITR No. 4 ^c
5/89	Surface water and sediment sampling	818 to 824	Evaluate surface water for VOCs, pesticides/PCBs, total metals, BOD, and ammonia/nitrogen. Evaluate sediment for eyanide.	ITR No. 4°
Date	Activity	Scope	Purpose	
Stage 3				-
68/6	Sediment and surface water sampling	10 locations (818 to 824, 826 to 828)	Evaluate surface water quality and measure its potential effect on macroinvertebrate populations.	e its potential
10/89	Overburden well installation	567, 568	Evaluate overburden groundwater quality.	
10/89-1/90	Drum removal IRM	One-acre tract. Southeastern section of landfill.	IRM performed to remove possible contaminant source.	ninant
11/89-12/89	Bedrock well installation	625 to 630	Evaluate hedrock groundwater quality.	

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Summary of Site Investigations LF-5 and Vicinity Pease AFB, NH (Continued)

Date	Activity	Scope	Purpose
Stage 3 (continued)	1)		
11/89-4/90	Column leaching test	405, 406, 407, 408	Evaluate effect of soil contamination on groundwater quality.
2/90	Minirate pumping tests	625, 627 to 630	Evaluate aquifer characteristics.
3/90, 10/90, 6/91, 8/91, 10/91	Groundwater sampling	See groundwater analyte summary table (Appendix A).	Characterize bedrock and overburden groundwater quality in the LF-5 area.
06/6	Overburden well installation	578	Evaluate overburden groundwater quality west of LF-5. Paired with bedrock well 629 to calculate vertical hydraulic gradient.
5/91	Test pit excavation	9001 to 9010	Delineate potential PCE source upgradient of LF-5.
5/91	Landfill cover soil sampling	32 locations (336 to 367) 200- x 200-ft grid	Characterize landfill cover material to assess air, direct contact, and surface runoff pathways.
5/91-6/91	Borehole permeability tests	7039 to 7048	Further delineate landfill solid waste and establish permeability values in the underlying material.
5/91-7/91	Bedrock well installation	6003 to 6006	Evaluate bedrock water quality in/near LF-5.
5/91-7/91	Overburden well installation	5007, 5008, 5015	Delineate PCE plume area.
5/91-7/91	Overburden well installation	5009 to 5011, 5014	Monitor overburden water quality. Paired with bedrock wells to calculate vertical hydraulic gradient.
5/91-7/91	Overburden well installation	5012, 5013	Monitor water quality hydraulically downgradient of the northern trench area.
5/91-7/91	Bedrock well installation	6001, 6002	Evaluate bedrock water quality upgradient of LF-5. Delineate potential PCE source.

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Summary of Site Investigations LF-5 and Vicinity Pease AFB, NH (Continued)

Date	Activity	Scope	Purpose
Stage 3 (continued)	(p		
6/91	Scdiment and surface water sampling	18 locations (818 to 824, 826 to 828, 8031 to 8038)	Evaluate surface water quality and measure its potential effect on macroinvertebrate populations.
6/91, 10/91	Wetlands delineation	In and adjacent to LF-5	Identify wetlands areas.
7/91	Pumping test	48-hour test on well 630	Estimate hydraulic conductivity within the landfill.
9/91	Test pit excavation and soil sampling	9012 to 9021	Characterize LF-5 soil and debris.
16/6	TCLP analyses	Railway Ditch sediments Test pits	Evaluate leachability of soil and sediments.
10/01	Sediment and surface water sampling	Five locations (8061, 8072 to 8074, 8079)	Further delineate known contamination.

[•]Corresponds to surface water sampling points 824, 823, 822, 821, 820, 819, and 818, as shown in Figure 2.1-1 in F-500.
 [•]F-453.
 [•]F-458.
 [•]F-459.

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- In 1984, Phase II (Problem Confirmation and Quantification) was initiated via conducting a presurvey to obtain sufficient information to plan a more detailed study. Based on the presurvey results, LF-5 and 19 other IRP sites (three areas were dropped and four areas were added as IRP sites) were recommended for further study and were entered into the RI/FS process (F-447).
- In October 1987, the Air Force initiated a second part of the Phase II study (Stage 2). At this point, the IRP approach was adjusted to be consistent with the U.S. Environmental Protection Agency's (EPA) Remedial Investigation/ Feasibility Study (RI/FS) terminology and philosophy. Stage 2 field activities were concluded in May 1989.
- Following groundwater analyses in Phase II (Stage 2), five sites were identified for initiation of interim remedial measures (IRMs). LF-5 was among these sites, due to the presence of buried drums in the landfill and due to high contaminant levels in LF-5 soils and groundwater (F-455).
- On 14 July 1989, Pease AFB was proposed for addition to the National Priorities List (NPL). The effective date of addition was February 1990.
- In 1990, a Technical Review Committee (TRC) was established to facilitate communication and coordination among various agencies and the public concerning Pease AFB IRP activities. The TRC assists in keeping the local community apprised of investigative/remedial actions and findings at Pease AFB. The TRC is comprised of individuals representing the Air Force; NHDES; EPA; PDA; the Towns of Newington, Greenland, and Portsmouth; and a community representative. TRC meetings are held monthly.
- On 24 April 1991, the U.S. Air Force, EPA, and NHDES signed a Federal Facilities Agreement (FFA) establishing the protocol and timetable for conducting the RI/FS and Remedial Design/Remedial Action (RD/RA) processes at Pease AFB.
- In October 1991 (Stage 3), a drum removal IRM was conducted at LF-5. During field activities 54 85-gallon overpacks containing drums, waste materials, and over 2,000 empty, crushed drums were removed and disposed of at an off-base, licensed facility (F-463).

As part of the timetable established in the FFA, the U.S. Air Force, in an effort to streamline activities, designed a basewide strategy plan for conducting an RI/FS investigation. This strategy plan grouped the numerous sites into seven zones. The zones were delineated based on hydrogeological similarities, analytical results, geographical location, surface features, and types of source areas contained within the zones. RI/FS

reports have been or will be prepared for each zone. As noted for Stage II, prior to inclusion of Pease AFB on the NPL, five sites, including LF-5, were on an accelerated RI/FS approach because of the potential threat they posed to human health and the environment. The U.S. Air Force, EPA, and NHDES agreed that the source area RI/FS reports, as well as the remedial actions at these sites, would continue on an accelerated track toward source area cleanup, independent of the zones in which they were contained.

- In April 1992, the U.S. Air Force submitted a Draft Final RI Report for LF-5 (F-500).
- In August 1992, the U.S. Air Force submitted a Draft Final FS for LF-5 (F-494).

III. COMMUNITY PARTICIPATION

Throughout the site's history, the community has been actively involved. EPA, NHDES, and the U.S. Air Force have kept the community and other interested parties apprised of site activities through informational meetings, fact sheets, press releases, public meetings, and TRC meetings.

During January 1991, the U.S. Air Force released a community relations plan, which outlined a program to address community concerns and keep citizens informed about and involved in remedial activities. This plan was updated and released in the summer of 1993.

Numerous fact sheets have been released by the U.S. Air Force throughout the IRP program at Pease AFB. These fact sheets are intended to keep the public and other concerned parties apprised of developments and milestones in the Pease IRP. The fact sheets released to date that concern LF-5 are summarized as follows:

Fact Sheet	Release Date
Pease AFB Installation Restoration Program Update	October 1991
Pease AFB Installation Restoration Program Update	December 1992
Proposed Plan for Landfill-5 Source Area	January 1993
Revised Proposed Plan for Landfill-5 Source Area	July 1993

In addition to the fact sheets, a number of public meetings have been held concerning the remediation of LF-5. On 14 November 1991 an IRP update public meeting was held and on 12 January 1993 an IRP public workshop and meeting was conducted to provide the public with information on the status of the IRP at Pease AFB. On 27 January 1993 the U.S. Air Force conducted a public hearing and information session for the LF-5 Proposed Plan, during which oral comments on the Proposed Plan were received. A transcript of oral comments received during this meeting and U.S. Air Force response to comments are included in the attached Responsiveness Summary (Appendix C). In addition, a public

comment period for the Proposed Plan was conducted between 14 January and 13 February 1993. Responses to written comments received during this period-are also included in Appendix C.

TRC meetings have been held on a monthly basis since 1990 (see Subsection II.B). Through these meetings, lines of communication among the public and the various lead agencies have been kept open.

On 5 August 1993, the U.S. Air Force conducted a public hearing and information session for the Revised Proposed Plan for LF-5 during which comments on the Proposed Plan were received. A transcript of comments received during this meeting and the U.S. Air Force response to comments are included in the attached Responsiveness Summary (Appendix C). In addition, a public comment period for both the Revised Proposed Plan for Landfill-5 and the Proposed Plan for Landfills-2 and -4 was held from 20 July to 19 August 1993. Responses to written comments received during that period are also included in Appendix C.

A complete information repository, containing documents relating to the Pease AFB IRP, is maintained at Pease AFB in Building 43. An administrative record pertaining to the Pease AFB IRP is located in Building 43 of Pease AFB. An index of the administrative record is maintained in the EPA Region I Headquarters.

IV. SCOPE AND ROLE OF OPERABLE UNIT OR RESPONSE ACTION

Zone 1 encompasses six areas of concern, including the source area operable unit for LF-5. Other areas of concern include LF-2, LF-3, and LF-4, the BFSA, and the PCDA. The remedy presented in this Record of Decision (ROD) provides for source control at LF-5. Remediation at a Superfund site typically involves activities to remove or isolate contaminant source materials in conjunction with activities that mitigate migration of contamination through groundwater, surface water, and/or air pathways. This ROD addresses only source control measures. Management of contaminant migration will be addressed in a separate ROD for Zone 1, which is scheduled for completion in September 1994.

Source materials at LF-5 have been identified as landfill soil and solid wastes, landfill surficial soils, and sediment in the Railway Ditch and associated wetlands. Although sediment in Flagstone Brook may represent an additional source, contaminants present in this medium may be directly related to runoff from other sources and, therefore, are addressed in the Zone 1 Draft FS, which was completed in August 1993, rather than in the LF-5 source control FS. Groundwater and surface water are not considered source materials, however, remedial action objectives (RAOs) and cleanup goals have been established for these media, as well as for the source materials, since they will be affected by source control activities.

Subsequent to the completion and public review of the original Proposed Plan for LF-5, it was proposed that two additional source areas, LF-2 and LF-4, be excavated (in their entirety) and consolidated on LF-5. The volume increase of materials consolidated on LF-5 would total approximately 76,320 cubic yards (yd³). The two landfills, which are adjacent to (in the case of LF-2) or within 200 feet (in the case of LF-4) of LF-5, cover a total area of approximately 12 acres. The materials in LF-2 and LF-4 are mainly soil and debris as with LF-5. In keeping with the public's desire to consolidate landfill materials wherever possible to provide for more available land whose future use is not restricted, it was determined that consolidation of LF-2 and LF-4 onto LF-5 would be the best strategy in

terms of meeting the public's requests. Because LF-2 and LF-4 are part of the Zone 1 operable unit, consolidation of LF-2 and LF-4 onto LF-5 will be addressed in the Zone 1 Proposed Plan and ROD. A final decision under CERCLA will be required prior to implementation of the LF-2 and LF-4 excavation and consolidation plan.

The selected source control remedy for LF-5, as described in the Proposed Plan, was developed by combining components of different source control technologies to aid in obtaining a comprehensive approach for site source area remediation. In summary, the remedy provides for:

- Excavation and consolidation of selected sediments on the existing landfill.
- Excavation of soil and debris in LF-2 and LF-4 and consolidation on LF-5 (not included in the original LF-5 Proposed Plan but added in the revised Proposed Plan).
- Excavation of soil and solid wastes predicted to be below the water table after capping and placement of excavated material on the existing landfill. Dewatering of areas requiring excavation, on-site treatment of the extracted groundwater, and discharge to the local publicly-owned treatment works (POTW) may be necessary.
- Regrading and capping of the existing landfill.
- Conducting long-term environmental monitoring and placement of institutional controls.

The remedial action addresses the following primary risks and principal threats to human health and the environment posed by the site:

- Risks posed to ecological receptors from direct contact with, or ingestion of, sediment in the Railway Ditch and associated wetlands containing contaminants in excess of concentrations that may present a risk.
- Risks posed to humans from direct contact with, or ingestion of, contaminated soils or debris that may present a health risk.

- Risks posed to ecological receptors from direct contact with, or ingestion of, soil or debris containing contaminants in excess of concentrations that may present health risks.
- Migration of contaminants from soil or debris within the LF-5 source area into the groundwater, which may inhibit attainment of the groundwater RAOs for Zone 1.
- Migration of contaminants from soil or debris within the LF-5 source area into surface water, including wetlands, which may inhibit attainment of the surface water ROAs for Zone 1.

The selected source control remedy will complete the mitigation of the site risks related to source areas as described in Subsection 1.6 of the LF-5 FS (F-494).

V. SUMMARY OF SITE CHARACTERISTICS

Subsections 1.3 and 1.4 of the FS contain an overview of the RI. Based on the results of the RI, a working conceptual model was developed that incorporates all known data concerning LF-5 and vicinity, including geological, hydrological, analytical, field measurements, and visual observations. The salient points of the model are summarized as follows:

- Several primary, discrete contaminant source areas exist within LF-5.
- Landfill operations have caused the excavation of native soils down to bedrock in places; consequently, buried refuse is in direct contact with groundwater and weathered and fractured bedrock.
- Contaminated soil is a likely source for some of the contaminants that have been observed in other matrices in the LF-5 area.
- An enhanced groundwater recharge area for LF-5 and its vicinity overlaps the central trench area.
- Groundwater within LF-5 is contaminated with halogenated volatile organic compounds (VOCs), aromatic VOCs, and semivolatile compounds (SVOCs); metals; and pesticides. The concentrations of a few of these substances exceed federal and state standards.
- Aromatic and halogenated VOCs are discharged from groundwater to surface water in the Railway Ditch and Flagstone Brook.
- A groundwater plume containing VOCs (halogenated) is migrating from LF-5.
- The extent of the halogenated VOC plume east of the Railway Ditch is known; the downgradient limit coincides with wells 5009 and 6003.
- Surface water and sediment in Flagstone Brook appear to be affected by other sources in addition to LF-5.
- Surface water and sediment in the Railway Ditch appear to be significantly affected by LF-5.

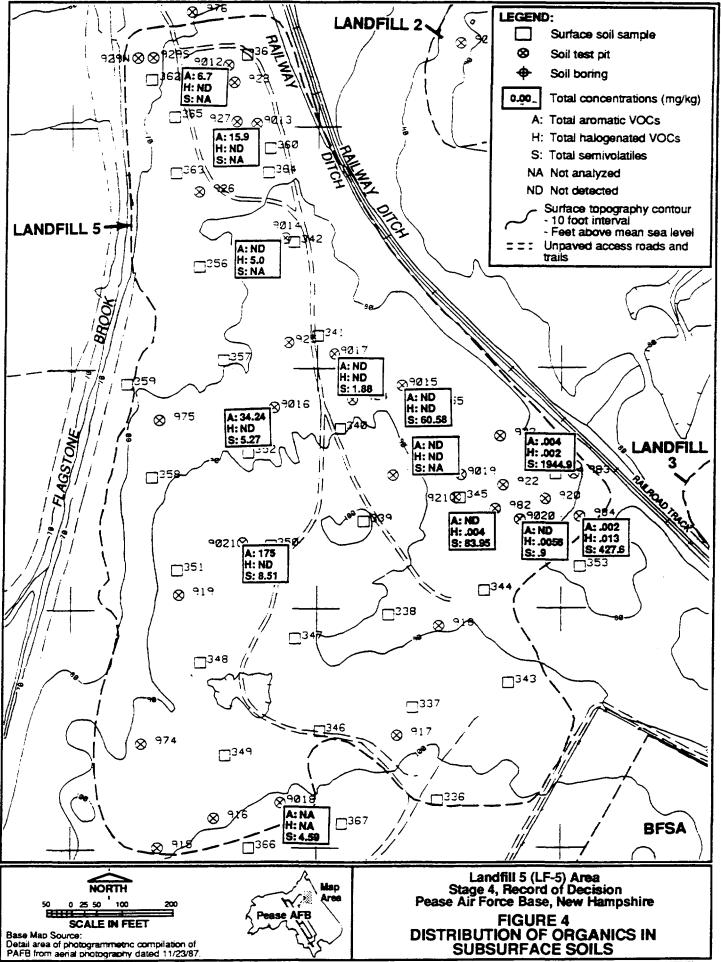
The results of the RI as conceptualized are discussed in more detail in the subsections that follow.

A. Subsurface Soils and Solid Waste

Source characterization at LF-5 included the collection and analysis of subsurface soil and solid waste samples. Subsurface soils refer to material collected at a depth of 2 feet or greater. All subsurface soil samples were collected from the landfill over a period of 4 years. Samples were obtained from approximately 30 test pits and several samples were collected during drum removal operations. Figure 4 depicts the distribution of organics in subsurface soils in and adjacent to LF-5. Major findings of the analyses of all test pit soil samples are summarized as follows:

- The highest total SVOCs were detected within the drum removal area.
- The highest total VOCs were detected in soils collected near the central trench area. Total xylenes were the largest component [33 milligrams/kilogram (mg/kg)] of the total aromatic VOCs. 1,4-Dichlorobenzene (DCB) was detected in soil from the southwestern corner of the central trench area at a concentration of 0.140 mg/kg.
- Low concentrations of total aromatics were detected in test pit soils collected from the northern trench area.
- TCE was detected in soils from test pit 9014 at a concentration of 0.005 mg/kg.
- Arsenic was detected above the background concentrations in the sample from test pit 9018. The copper background concentration was exceeded in samples from test pit 9013. Zinc concentrations exceeded the background concentration in samples from test pits 983, 9013, 9015, 9016, and 9018.
- Cadmium concentrations exceeded the background concentrations in samples from test pits 9013, 9016, and 9021. The mercury background concentration was exceeded in samples from test pits 9016 and 9017. Lead concentrations exceeded the background concentration in samples from test pits 982, 983, 984, and 9016. The nickel background concentration was exceeded in the sample from test pit 9015.

Soil samples from test pits 9016 and 9020 were also subjected to the Toxicity Characteristic Leaching Procedure (TCLP). Leachate was analyzed for VOCs, SVOCs, metals, pesticides, and herbicides. Laboratory data indicate that no TCLP regulatory limits were exceeded.



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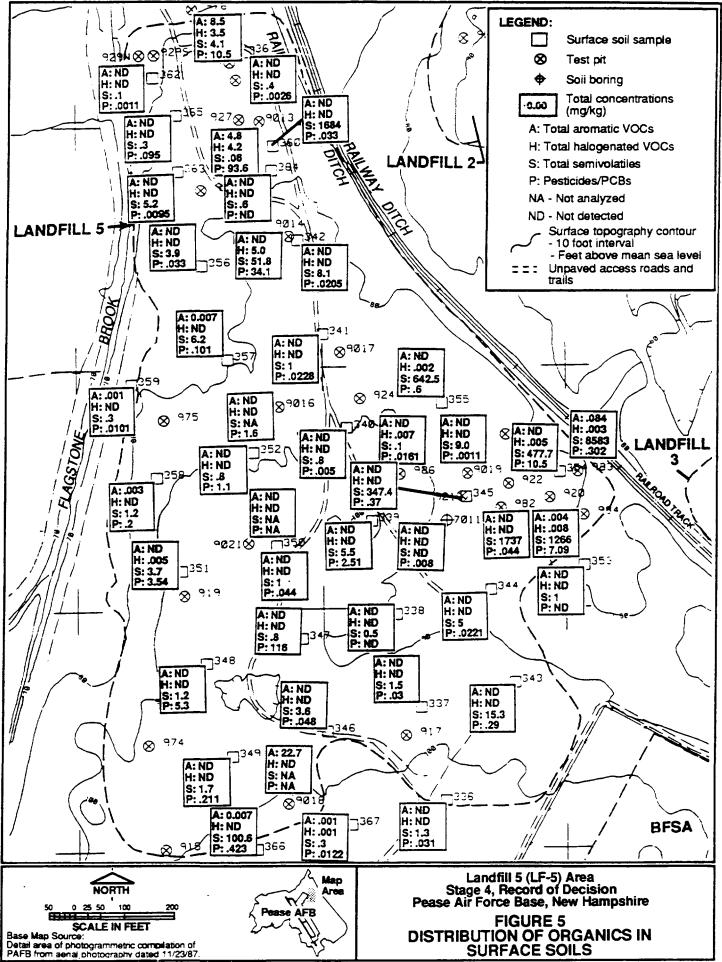
Contaminants in subsurface soils at LF-5 are of concern since they are, in some landfill areas, in contact with groundwater and have the potential to migrate from the site via this medium.

B. Surface Soils

A total of 32 landfill surface soil samples (336 through 367) were collected from a depth of 0 to 2 feet to characterize the landfill cover soil. Surficial (0 to 2 feet) test pit samples were also used to describe the landfill cover soils. Figure 5 depicts the distribution of organics in surface soils in and adjacent to LF-5. The results of the laboratory analyses may be summarized as follows:

- Aromatic and halogenated VOCs were detected at low concentrations in soils collected from all areas of the landfill. The highest concentrations were detected in soils from test pit 983 and soil sample 357.
- SVOCs were detected in all soil samples. From areas outside the drum removal area, total concentrations ranged from 0.06 mg/kg (9013) to 1,684 mg/kg (360). Most of the highest total SVOCs were detected in soil samples collected from the drum removal area (345, 354, and 355) and test pits from the drum removal area (982, 983, and 984).
- Polynuclear aromatic hydrocarbons (PAHs) (e.g., chrysene) were most often detected in soil from the drum removal area.
- The highest concentrations of total petroleum hydrocarbons (TPHs) were detected in the samples from location 364 (2,500 mg/kg) from the northern trench area and location 345 (2,200 mg/kg) from the drum removal area.
- Pesticides were detected in most of the surface soil samples. Both heptachlor and dieldrin were elevated in the sample from location 354 (drum removal area), and dieldrin was detected in the sample from locations 366 and 984.
- Most of the samples that contained metals that exceeded the background concentrations were collected from the drum removal area and the northern trench area. Table 2 includes a summary of locations and concentrations that have metals concentrations that exceed background in surface soils at LF-5.

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Summary of Elevated Metals Concentrations in Soil LF-5, Stage 3, Pease AFB, NH

ы К	1.4			9013s (8.1) -
3	6.7	9012s 9013s 9013s 9013s 9013d (13.5J)		9021d 9016d 9016d (11.4)
Hg	1.2			9016d (2.9) 9017d (1.6)
Zn	219	80128 80128 8648 (1259) 86109 (1236) (1236)	983d (513)	9015d (246J) 9016d (491) 9018d (258J)
^	150			
ЪЪ	54.0	364s (159) 9013s (75.5) 9012s (193) 360s (81.2)	354s (55.81) 982d 983d 983d 983d 984d (71.6)	342s (1201) 349s (541) (541) (5471) 357s (66771) 358s (78.64) 9016d (1114)
Ż	70.5			9015d (86.5)
aN	366		983s (2,560)	
Mn	1,020	362s (1,080J)		
C	54.3	9012 8 2012 364s (12151) 364s (10-) (1331) 9013d 9013d 913d 913d	354s (130J)	352s (65.8J)
შ	49.4	364s (dup.) (54.0J)		
Ba	262	364s (4,430)		
В	67.3		364s (195)	
٨s	25.2	365s (28.6) 364s (dup.) (35.1)		9018d (37.8)
Compound	Background concentration ⁴ (mg/kg)	Northern trench area	Drum removal area	Other areas

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*Background concentrations were established in both a letter report dated 4 December 1991 and a letter included in Appendix G in F-500.
* = Sample collection depth was 0 to 2 feet.
d = Sample collection depth was >2 feet.
(28.6) = Concentration (mg/kg).
364 = Sample location.
Note: The common mineral-forming minerals aluminum and silicon are not included.

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• One surface soil sample (9013) was subjected to TCLP. Leachate from the test was analyzed for VOCs, SVOCs, metals, pesticides, and herbicides. Preliminary laboratory data indicate that TCLP regulatory limits were not exceeded.

Contaminants in surface soils at LF-5 are of concern because of the potential for direct human and ecological receptor contact with these soils and the potential for contaminants in surface soils to migrate to surrounding surface water bodies and wetlands.

C. Surface Water and Sediments

The LF-5 surface drainage system consists of two main drainage channels. The first, Flagstone Brook, has its headwaters at the North Ramp and flows northward forming the western boundary of LF-5. The second, the Railway Ditch, flows northward along the eastern border of LF-5, eventually joining Flagstone Brook, approximately 3,000 feet north of LF-5. Flagstone Brook eventually drains to the Piscataqua River to the east of Pease AFB.

Nine surface water/sediment stations were sampled to characterize Flagstone Brook, while 15 stations were sampled to determine the impact of LF-5 on the Railway Ditch. Sampling results and data interpretation are discussed in Subsection 4.5 of the Zone 1 Draft Final RI (F-500). The sampling history of all LF-5 surface waters and sediment stations is summarized in Appendix B of that document. Figures 6 and 7 present the distribution of organics in LF-5 surface waters and sediments, respectively.

Tetrachloroethene (PCE) is the only VOC confirmed in the surface waters of Flagstone Brook at concentrations greater than 1 microgram per liter (μ g/L). This sample was collected at station 821 during the January 1990 sampling round. No SVOCs were detected in the Flagstone Brook surface waters. The pesticide DDT and its metabolite DDE were the only pesticides confirmed in Flagstone Brook surface waters; these two compounds were detected at concentrations of 0.14 μ g/L and 0.2 μ g/L, respectively, at

station 819 during the May 1989 sampling round. Polychlorinated biphenyls (PCBs) were not detected at any location.

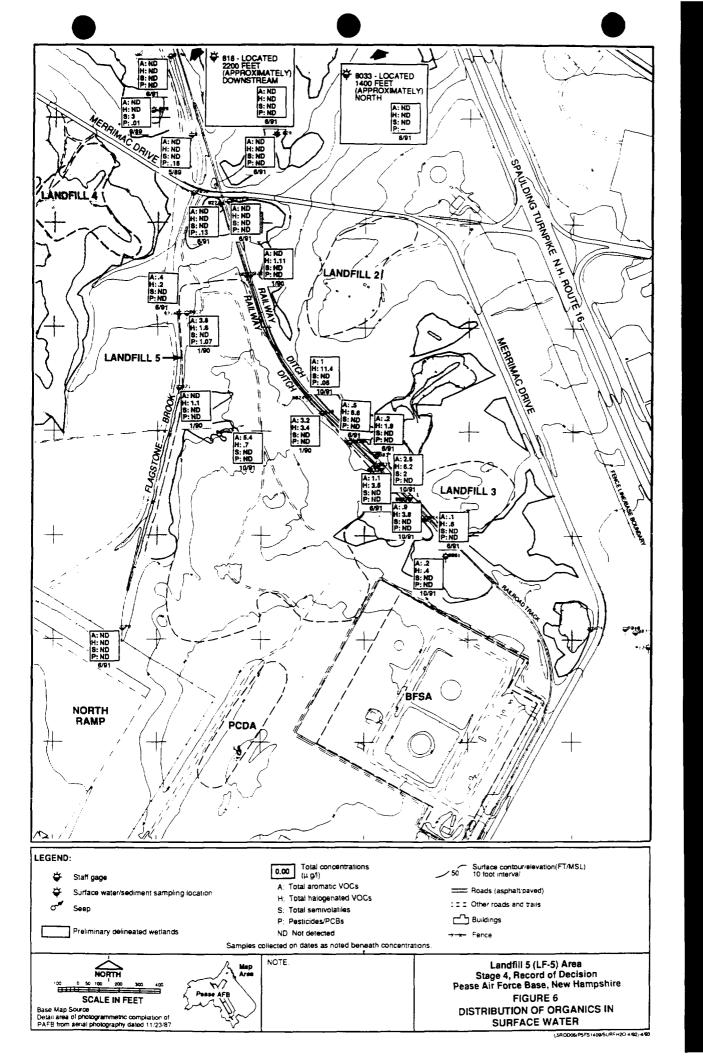
The highest concentrations of aromatic VOCs and SVOCs in the Flagstone Brook watershed were detected at seeps 8079 and 826, respectively. Total aromatic VOCs were detected at 54 μ g/L for station 8079 during the October 1991 sampling round, and the SVOC 4-methylphenol was detected at 3.0 μ g/L for station 826 during the September 1989 sampling round.

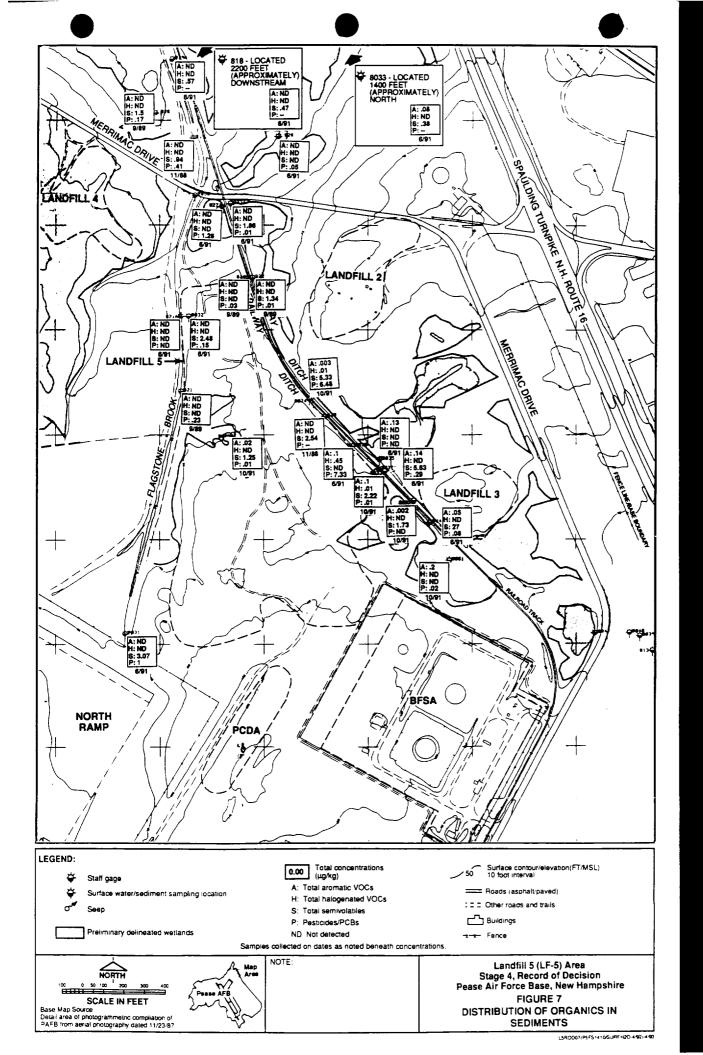
DDT (station 819) was the only organic compound detected in the Flagstone Brook watershed that exceeded ambient water quality criteria (AWQC) (0.001 μ g/L).

VOCs were not detected in any of the sediment samples taken in Flagstone Brook; however, VOCs were detected in seep sediments. The VOCs detected in sediments were chlorobenzene (0.07 mg/kg) and 1,4-DCB (0.002 mg/kg) at seep 8079. SVOCs have been detected in the sediments of all but two of the stations (stations 821 and 821A) in the Flagstone Brook watershed. Stations 8031 and 8032 had the highest total sediment SVOC concentrations, 3.07 mg/kg and 2.48 mg/kg, respectively. The greatest contributors to the total SVOC concentrations at all stations were PAHs. It is important to note that the highest total SVOC concentration was reported for station 8031, which is upgradient from LF-5. This implies that sources other than LF-5 are contributing SVOCs and possibly other contaminants to surface water and sediments in the Flagstone Brook drainage.

Pesticides/PCBs were detected in the sediments at six stations in the Flagstone Brook drainage. The highest total pesticide/PCB concentration was detected at the upgradient station (8031) and was based on a single hit of 1.00 mg/kg for heptachlor epoxide. Other pesticides/PCBs observed in Flagstone Brook drainage sediments, and the number of stations at which they were reported include: 4,4'-DDT (4), 4,4'-DDE (3), gamma-chlordane (1), and Aroclor-1260 (1).

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Inorganic concentrations in surface waters in the Flagstone Brook drainage were compared with the State of New Hampshire freshwater chronic criteria for the protection of aquatic life, when available. Metals for which criteria are hardness- or pH-dependent have been adjusted assuming hardness of 20 mg/L and pH of 6.5. The state AWQC for seven inorganics were exceeded at one or more stations in the Flagstone Brook drainage. Zinc concentrations at stations 819, 819A, 826, 8031, and 8079 exceeded the state AWQC (0.027 mg/L). The state AWQC for iron (1.0 mg/L) was exceeded at stations 819, 826, 8031, and 8079; and the state AWQC for lead (0.000041 mg/L) was exceeded at three stations (826, 8031, and 8079). The four other compounds that exceeded surface water criteria and the number of stations are beryllium (1), copper (2), nickel (1), and thallium (1).

Inorganic sediment concentrations in the Flagstone Brook drainage were compared to concentrations at upgradient station 8031. Station 8031 had the highest detected concentrations of barium (445 mg/kg) and chromium (91.9 mg/kg) in sediments when compared to other Flagstone Brook drainage samples. In general, inorganic sediment concentrations did not exceed the upgradient sample by more than an order of magnitude, the exceptions being mercury and beryllium, which were not detected at station 8031. Mercury was identified in a duplicate sample taken at station 8032 (0.15 mg/kg) in June 1991. Beryllium was identified at stations 819A (0.27 mg/kg) and 8079 (0.41 mg/kg) during June and October 1991 sampling, respectively. The only other compound that exceeded the upgradient concentration by more than an order of magnitude was aluminum, which was detected at station 826 (20,800 mg/kg) in a sample collected in September 1989.

Aromatic and halogenated VOCs were detected in surface water at nine stations in the Railway Ditch during the 1991 field investigations at LF-5 (see Figure 7). Aromatic VOCs detected included chlorobenzene, benzene, toluene, ethylbenzene, trimethylbenzene, and butylbenzene. Chlorobenzene was the most frequently detected and also showed the highest concentration of 2.0 μ g/L at station 8073. Halogenated VOCs were detected at the same stations where aromatic VOCs were present. Halogenated VOC contaminants included PCE, TCE, trans- and cis-1,2-dichloroethene (DCE), 1,1-DCA, 1,4-DCB, and 1,2-DCB. TCE, cis-1,2-DCE, 1,1-dichloroethane (DCA), and 1,4-DCB were the dominant halogenated

VOCs present in Railway Ditch surface water. TCE was detected at the highest concentration (9 μ g/L at station 8074). No aromatic or halogenated VOCs were detected in surface water downstream of station 827. The area of aromatic/halogenated VOC surface water contamination extends from staff gage 8061 downstream to station 820/822.

No SVOCs were detected in surface water sampled from the Railway Ditch. The pesticide DDT and its metabolite 4,4'-DDD were detected in surface water collected from four Railway Ditch stations (820, 827, 828, and 8074). The highest concentrations of DDT and 4,4'-DDD in surface water were detected at staff gage 820. No herbicides or PCBs were detected in Railway Ditch surface waters.

Aromatic VOCs were detected in sediments at nine stations in the Railway Ditch during the 1991 field investigations at LF-5 (see Figure 7). Aromatic VOCs detected included chlorobenzene, 1,2-DCB, methylene chloride, 2-butanone, toluene, and acetone; 2-butanone had the highest detected concentration of 0.2 mg/kg at station 8061. Halogenated VOCs were detected in sediment at three stations in the Railway Ditch and included 1,2-DCE, TCE, and 1,1-DCA. The aromatic VOC 1,2-DCE was detected in the highest concentration at station 8036 (0.45 mg/kg). Aromatic VOCs were detected in sediments in the upper Railway Ditch from staff gage 8061 downstream to station 8074, while halogenated VOCs were detected at stations 8074, 8036, and 8073. No VOCs were detected in sediments sampled below station 8074.

SVOCs were detected in sediments sampled at eight stations in the Railway Ditch. Phenanthrene, fluoranthene, and pyrene were the most common SVOCs out of a total of 15 SVOC compounds detected. The highest SVOC concentration detected in Railway Ditch sediments was a 27-mg/kg concentration of benzoic acid at station 824. SVOCs were detected throughout the Railway Ditch system from station 824 downstream to station 8033.

Pesticides were detected in sediments at 10 stations in the Railway Ditch. DDT was the most widely distributed pesticide in the Railway Ditch sediments and was detected at six stations. The DDT metabolites 4,4-DDE and 4,4-DDD were both detected at seven stations

in the Railway Ditch. The highest sediment concentration of pesticide (DDT) was detected at station 8036. No herbicides or PCBs were detected in Railway Ditch sediments.

Inorganic concentrations detected in surface waters of the Railway Ditch drainage were compared with the State of New Hampshire freshwater chronic criteria for the protection of aquatic life. State AWQC for five inorganics were exceeded at one or more stations in the Railway Ditch drainage. Arsenic concentrations at stations 8036, 8037, and 8073 exceeded the state AWQC (0.048 mg/L). State AWQC for copper (0.003 mg/L) was exceeded at stations 8035 and 8061. A total of 10 stations (820, 823, 827, 8035, 8036, 8037, 8061, 8072, 8073, and 8074) exceeded the state AWQC for iron (1.0 mg/L). Lead concentrations at seven stations (820, 822, 8035, 8036, 8061, 8072, and 8073) exceeded the state AWQC (0.00041 mg/L), and the state AWQC for zinc (0.027 mg/L) was exceeded at stations 8035, 8036, 8037, and 8061.

Railway Ditch sediment concentrations of inorganics were compared to the upgradient station on Flagstone Brook (8031). Inorganics concentrations in Railway Ditch sediments that were one order of magnitude greater in concentration than those detected at station 8031 are described as follows. Eight sediment inorganics were one order of magnitude greater in concentration than those detected at station 8031. These included: arsenic at seven stations, iron at one station, lead at two stations, calcium at three stations, cobalt at one station, potassium at one station, manganese at six stations, and silicon at eight stations. Four inorganics (beryllium, selenium, silver, and thallium) detected in Railway Ditch sediments were not detected at station 8031.

Potential pathways by which contaminants have entered Flagstone Brook and the Railway Ditch include overland flow (erosion) and groundwater discharge. The PAHs and pesticides observed in sediments are transported via erosion of LF-5 soils. VOCs detected in the Railway Ditch surface waters reflect contaminated groundwater discharge. The relative absence of VOCs in Flagstone Brook surface waters may result from dilution, losses due to volatilization, or a smaller contaminant load migrating westward, as opposed to eastward toward the Railway Ditch. Halogenated VOCs in Railway Ditch waters have been determined to have originated from three separate source locations in the vicinity of LF-5; the central trench area (chlorobenzene, 1,4-DCB, and C-1,2-DCE), the southern trench area (PCE), and an area south of the landfill near the PCDA.

Based on sampling results in Flagstone Brook and the Railway Ditch, it is estimated that approximately 3,000 yd³ of Railway Ditch sediments will require remediation.

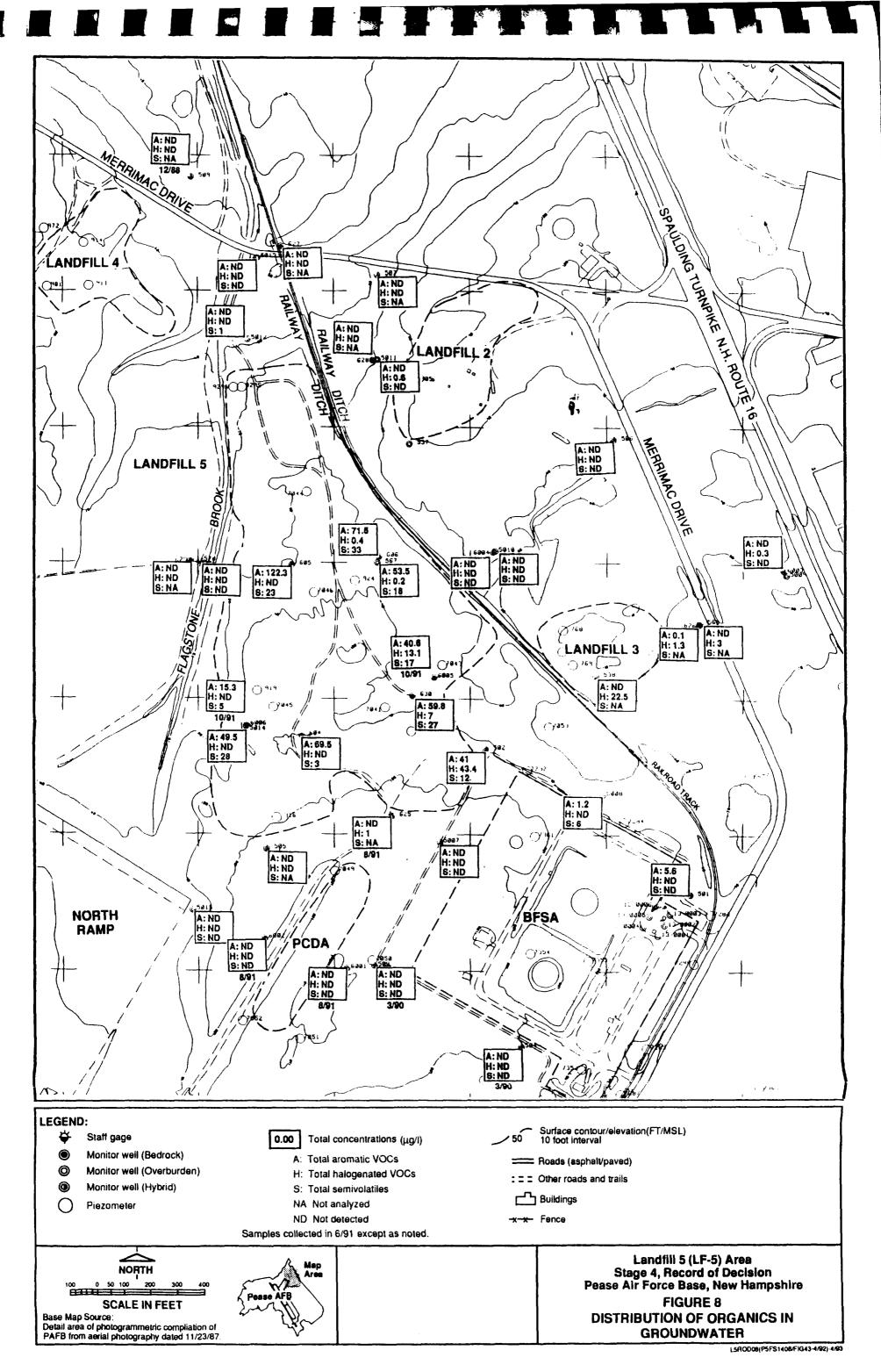
D. Groundwater

During the LF-5 characterization, 38 groundwater sample locations were tested for VOCs with varied frequency. Both aromatic and halogenated VOCs have been detected on- and off-site. However, the off-site aromatic VOCs have been detected in wells 502 and 5008. Well 5008 is downgradient of both LF-5 and the BFSA.

All of the groundwater samples collected from monitor wells installed within the established LF-5 boundary have contained VOCs. Outside the landfill boundary, halogenated VOCs were detected in samples collected from five wells located east of the southern section of LF-5 (502, 538, 568, 626, and 6003); and one well located northeast of the landfill (5011). Figure 8 depicts the distribution of the concentrations of total halogenated VOCs, total aromatic VOCs, and total SVOCs for each well.

The highest concentrations of total aromatic VOCs (primarily benzene, chlorobenzene, and 1,4-DCB) and SVOCs are typically detected in groundwater collected from wells near the central trenches (567, 603, 604, 605, and 6005).

The highest concentrations of halogenated VOCs, primarily TCE and PCE, in groundwater are hydraulically downgradient of the southeastern corner of LF-5, but low concentrations have been detected in samples from one well, located adjacent to the central portion of the southern boundary, during three separate sampling events. Low concentrations of dichlorinated alkenes and alkanes cis-1,2-DCE, 1,1-DCA, and 1,2-DCA are present across



the landfill, but the higher concentrations (>5 μ g/L) are restricted to the southeastern region of LF-5. The highest detected concentrations of total SVOCs and total aromatic VOCs have been in the central trench area (605 and 606); benzene has repeatedly exceeded the Federal Maximum Contaminant Level (MCL) of 5 μ g/L in samples collected from one well (5014) in this area. No other final or proposed MCLs have been exceeded for aromatic VOCs or SVOCs at LF-5. The MCLs for TCE (5 μ g/L) and vinyl chloride (2 μ g/L) have been exceeded in groundwater samples collected from well 502, and the MCL for PCE (5 μ g/L) has been exceeded in all samples from wells 502 and 538.

Groundwater samples collected from 38 wells in and around LF-5 have been analyzed for pesticides. Low concentrations (below quantitation limits) of either delta-BHC, endosulfan I, or 4,4'-DDD have been detected in groundwater samples collected from three of the wells (605, 606, and 629). The two samples containing endosulfan I were collected from wells located downgradient of the central trench area (605 and 606). The concentrations present are not above any existing federal or state criteria. No herbicides have been detected in groundwater samples collected from the wells in and around LF-5.

A total of 96 groundwater samples collected from 38 wells were analyzed for dissolved metals. Table 3 summarizes those wells at which dissolved metal concentrations have exceeded background. Iron and manganese were consistently present at concentrations above established background concentrations near the central trench area (wells 567, 604, 605, 606, 630, 6005, and 6006). In all wells in which dissolved manganese concentrations exceeded the background concentrations, aromatic VOCs were detected. A similar correlation exists with dissolved iron except in wells 508 and 5010, which do not contain VOCs. The majority of the metals concentrations that were present in elevated concentrations were located in wells near the central trenches.

Dissolved arsenic was detected above the background concentration (50 μ g/L) in seven wells; six of these wells are located near the central trenches (567, 605, 630, 6005, and 6006) and the seventh (501) is located downgradient of the BFSA. Dissolved arsenic was detected

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Locations of Elevated Dissolved Metals Concentrations in Groundwater LF-5, Stage 3, Pease AFB, NH

Parameter:	As	Fe	Wu	Mg	Si	ථ	IJ	В	×	A	Ř	ž
Background concentration (µg/L)	50	1,090	59.7	41,300	13,400	S	200	163	12,900	439	8,800	100
Locations	S01 (2/5) 567 (3/3) 5014 (1/1) 6006 (1/1) 606 (4/4) 630 (3/3)	5010 (1/1) 501 (5/5) 507 (5/5) 507 (3/3) 604 (4/4) 605 (4/4) 605 (4/4) 600 (4/1) 600 (1/1) 6005 (1/1)	•	567 (2/3)	5010 (1/1) 567 (1/3) 605 (2/3) 606 (2/4)	606 (2/4) 5014 (1/1)	501 (1/5) 567 (1/3) 604 (1/4) 605 (1/4) 630 (1/3)	5008 (1/1) 501 (1/4) 567 (1/3) 605 (2/4) 630 (1/3)	567 (1/3) 606 (4/4)	508 (1/2)	5010 (1/1)	606 (1/4)

(2/4) = Number of times above background/number of times analyzed. •All the wells within the landfill have concentrations that exceed the background concentration.

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at lower concentrations in wells that are hydraulically upgradient of the trench area (502 and 505), and in well 629.

Contaminant migration in groundwater beneath and adjacent to LF-5 is discussed in detail in Subsections 5.2 and 5.3 of the Zone 1 Draft Final RI (F-500). The salient points of the discussion are presented in the paragraphs that follow.

Six potential groundwater contaminant migration pathways exist at LF-5. The six pathways are overburden and bedrock groundwater pathways to the north, east, and west of LF-5.

The bedrock and overburden water-bearing zones within LF-5 are intimately interconnected hydraulically. Excavating and landfilling activities resulted in removal of much of the relatively low-permeability Marine Clay and Silt (MCS) and Glacial Till (GT) units, that, in many other areas, act as an aquitard between the bedrock and overburden aquifers. Consequently, low-permeability material, which would otherwise separate groundwater in the overburden from groundwater in the weathered bedrock, is only sporadically present throughout LF-5. The observed contaminant distributions within LF-5 are consistent with the single hydraulic unit model.

Groundwater beneath LF-5 is recharged primarily from the south, although a local groundwater mound, which acts as an enhanced recharge zone, has developed in the central trench area. The center of this recharge zone is located north of well 604 (see Figure 8).

The location of this recharge zone coincides with an area characterized by elevated concentrations of several aromatic and halogenated VOCs. A north/south-trending groundwater divide transects this recharge zone along an axis through test pits 925, 927, and 928, and bedrock wells 604 and 605. Groundwater (bedrock and overburden) flows radially away from the recharge area and then joins the dominant flow pattern toward Flagstone Brook to the west and the Railway Ditch to the east.

Hydraulic gradients across LF-5 indicate that groundwater flows toward both the Railway Ditch and Flagstone Brook, thereby resulting in discharge from the water table to surface water. Although the Railway Ditch was not flowing during the September 1989 surface water sampling event, it appears to be a perennial stream because flow has been noted during all previous and subsequent sampling rounds. Organic contaminants present in surface water samples from staff gages along the Railway Ditch are the same as found in groundwater at LF-5. Although groundwater is also discharging into Flagstone Brook, with the exception of a small amount of PCE in one of four surface water samples collected at staff gage 821, there is a relative absence of contaminants detected in surface water samples. The relative absence of contaminants in Flagstone Brook may result from dilution, because of its relatively high discharge, contaminant losses resulting from aeration and volatilization, and/or it may be a reflection of a relatively smaller contaminant load migrating westward rather than eastward toward the Railway Ditch.

E. Wetlands

In addition to the Railway Ditch and Flagstone Brook, several wetlands areas exist in the LF-5 vicinity. On and immediately adjacent to the landfill are three wetlands: Wetlands XV, XVI, and XVII (see Figure 3). Wetlands XVI drains to Flagstone Brook and Wetlands XV and XVII drain the Railway Ditch. East of the landfill, between the railroad and Merrimac Drive, are Wetlands I, II, III, IV, V, and VI. Wetlands I, III, IV, and V drain toward Merrimac Drive, and Wetlands II and VI drain to the Railway Ditch. North of the landfill, there are several wetlands associated with the Railway Ditch and Flagstone Brook. Wetlands VII and VIII are associated with the Railway Ditch until it reaches Wetlands IX and joins Flagstone Brook through a culvert under the railroad. Wetlands X is located north of LF-5 and west of Flagstone Brook and has no identified surface water connection to Flagstone Brook. However, subsurface flow may exist under the roadbed. West of the landfill, Wetlands XIII is immediately adjacent to Flagstone Brook and a portion of it flows into Flagstone Brook near its conjunction with Merrimac Drive. More detailed information pertaining to the wetlands

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in the LF-5 vicinity is presented in the Wetlands Delineation Report in Appendix M of the LF-5 RI (F-500).

Based on wetland area surface soil and sediment sampling results that were available during preparation of the FS, it was assumed that sediment in Wetlands VI and XV, located outside the northern boundary of the landfill on either side of the Railway Ditch and south of Merrimac Drive, would require remediation. The estimated volumes of sediment in Wetlands VI and XV that may require remediation are 4,200 vd³ and 2,400 yd³, respectively. However, it should be noted that these volumes were conservatively estimated assuming that the entire wetlands will require sediment excavation. While sediment samples from the portions of these wetlands immediately adjacent to the Railway Ditch contained contaminant concentrations exceeding the No Observable Adverse Biological Effects Levels (ER-Ms), published by the National Oceanic and Atmospheric Administration (NOAA) samples were not collected from these wetlands at locations farther away from the Railway Ditch so there are no data to suggest that remediation of the entire wetlands is necessary. Confirmational sampling has been conducted in these wetlands to confirm whether sediment removal is necessary. Remedial volumes resulting from the sampling results will be confirmed prior to implementation of remedial action. Excavation will be avoided, wherever possible, to avoid the adverse long-term effects of wetlands destruction.

VI. SUMMARY OF SITE RISKS

A Risk Assessment (RA) was performed to estimate the probability and magnitude of potential adverse human health and environmental effects from exposure to contaminants associated with the Site. The public health risk assessment followed a four-step process:

- 1. Contaminant identification, which identified those hazardous substances which, given the specifics of the site, were of significant concern.
- 2. Exposure assessment, which identified actual or potential exposure pathways, characterized the potentially exposed populations, and determined the extent of possible exposure.
- 3. Toxicity assessment, which considered the types and magnitude of adverse health effects associated with exposure to hazardous substances.
- 4. Risk characterization, which integrated the three earlier steps to summarize the potential and actual risks posed by carcinogenic risks.

The results of the baseline human health and ecological risk assessments for Pease AFB are discussed in the subsections that follow.

A. Human Health Risk Assessment

A total of 75 contaminants of concern, listed in Tables 4 through 12, were selected for evaluation in the human health risk assessment. These contaminants constitute a representative subset of the more than 98 contaminants identified at the site during the RI. The 75 contaminants of concern were selected to represent potential site-related hazards based on toxicity, concentration, frequency of detection, mobility, and persistence in the environment. A summary of the health effects of each of the contaminants of concern can be found in Subsection 6.3.2 and Appendix L.4 of the LF-5 Draft Final RI (F-500).

Chemicals of Concern in Main Soils^a LF-5, Pease AFB, NH

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Chemical	Frequency of Detection ^b	Range of Sample Quantitation Limits (mg/kg)	Range of Averaged (Detected) Concentrations ^c (mg/kg)	Mean Concentration ^d (mg/kg)	Upper 95% Confidence Limit of the Mean (mg/kg)
Organics					
Aroclor-1242	2/33	0.045-9.1	1.6-5.3	0.43	1.0
Aroclor-1248	3/33	0.045-9.1	0.82-3.4	0.39	0.88
Bis(2-ethylhexyl) phthalate	27/33	0.45-15	0.055-1.0(1.1)	0.66	1.0
4,4'-DDD	8/33	0.009-1.8	0.003-0.23	0.062	0.13
4,4'-DDE	14/33	0.014-1.8	0.001-0.71	0.085	0.25
4,4'-DDT	23/33	0.009-0.41	0.002-3.4	0.18	0.66
Dibenzofuran	7/33	0.35-2.4	0.055-30	0.56	1.0
1,4-Dichlorobenzene	2/31	0.35-15	0.057-0.11	0.42 ⁴	0.64 ^d
Dieldrin	5/33	0.009-1.8	0.009-0.24	0.068	0.15
Di-n-butyl phthalate	6/33	0.35-15	0.039-0.084	0.40°	0.68*
2-Methylnaphthalene	3/33	0.35-2.4	0.29-8.9	0.39	0.57
Naphthalene	6/33	0.35-2.4	0.10-34	0.54	0.97
PAHs					
Acenaphthene	8/33	0.35-2.4	0.037-52	0.74	1.6
Acenaphthylene	2/33	0.35-15	0.096-0.20	0.42 ^d	0.62 ^d
Anthracene	12/33	0.35-2.4	0.045-85	0.95	2.5
Benzo(a)anthracene	22/33	0.35-2.4	0.042-130	1.6	5.7
Benzo(a)pyrene	21/33	^.3 5-2.4	0.040-110	1.4	4.4
Benzo(b)fluoranthene	22/33	0.36-2.4	0.041-100	1.5	4.7
Benzo(g,h,i)perylene	10/34	0.35-2.4	0.20-110	1.3	3.2
Benzo(k)fluoranthene	21/33	0.36-2.4	0.036-82	1.2	3.3
Chrysene	25/33	0.36-2.4	0.040-120	1.7	6.3

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Chemicals of Concern in Main Soils^a – LF-5, Pease AFB, NH (Continued)

Chemical	Frequency of Detection ^b	Range of Sample Quantitation Limits (mg/kg)	Range of Averaged (Detected) Concentrations ^c (mg/kg)	Mean Concentration ^d (mg/kg)	Upper 95% Confidence Limit of the Mean (mg/kg)
Organics (continued)					
Dibenzo(a,h)- anthracene	8/33	0.35-2.4	0.082-23	0.51	0.88
Fluoranthene	28/33	0.36-2.4	0.045-200	2.7	12.5
Fluorene	7/33	0.35-2.4	0.075-62	0.77	1.7
Indeno(1,2,3-cd)- pyrene	10/33	0.35-2.4	0.17-87	1.1	2.6
Phenanthrene	16/33	0.35-2.4	0.048-240	2.4	10
Ругепе	28/33	0.36-0.45	0.048 (0.040) - 210	2.4	10
Pentachlorophenol	4/33	1.8-76	0.093-0.94	1.8⁴	2.8 ^d
Inorganics					
Arsenic	36/36	1.0 ^r	4.0-28.6	9.7	11
Cadmium	4/36	1.7-7.6	2.0-11.9	1.7	2.1
Copper	36/36	3.0 ^r	6.8-215	23	28
Lead	33/36	9-15	7.1-193	37	49
Manganese	36/36	1.0 ^r	105-1,080	333	388
Mercury	8/34	0.11-0.28	0.14-0.81	0.13	0.17
Zinc	32/36	15-34	25-259	68	89

The listed chemicals were selected as chemicals of concern for both the human health and ecological risk assessments.

^bNumber of sampling locations at which the chemical was detected compared with the total number of sampling locations.

Exceeds the maximum detected concentration.

Sample quantitation limits were unavailable. Method detection limit is indicated (F-484).

If the minimum or maximum detected concentration differed from the respective minimum or maximum averaged concentration, the detected concentration is given in parentheses.

^dMean was calculated for the averaged concentrations using the minimum variance unbiased estimation approach for lognormally distributed data (F-230).

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Chemicals of Concern in Hot Spot Soils – Drum Removal Area^a LF-5, Pease AFB, NH

Chemical	Frequency of Detection ^b	Range of Sample Quantitation Limits (mg/kg)	Range of Averaged (Detected) Concentrations ^c (mg/kg)	Mean Concentration ^d (mg/kg)	Upper 95% Confidence Limit of the Mean (mg/kg)
Organics					
alpha-Chlordane	2/6	0.23-13	0.011-1.7	2.6°	15,953°
gamma-Chlordane	1/6	0.23-13	1.7	1.5	28 ^e
4,4'-DDD	5/6	2.2	0.021(0.011)-0.67	0.37	39 °
4,4-DDE	2/6	0.0046-2.1	0.15-0.26	0.15	0.46°
4,4'-DDT	4/6	0.0046-0.20	0.16-6.0	1.9	19,411°
Dibenzofuran	6/6	0.35-2.4 ^t	0.38(0.093)-110	37	87, 005 °
Dieldrin	2/6	0.046-2.6	1.5-1.5	0.57	65 °
Heptachlor	2/6	0.023-1.0	0.15-0.16	0.09	0.42 ^e
2-Methylnaphthalene	5/6	19	0.18(0.039)-41	19	27,715°
Naphthalene	5/6	19	0.18(0.054)-64	27	95,617°
PAHs					
Acenaphthene	6/6	0.33'	0.69(0.19)-190	67	113,721°
Anthracene	6/6	0.33 ^t	1.1(0.30)-220	90	75 ,800 °
Benzo(a)anthracene	6/6	0.33 ^r	2.3(0.77)-890	242	568,196°
Benzo(a)pyrene	6/6	0.33 ^t	1.7(0.55)-750	199	633,285°
Benzo(b)fluoranthene	6/6	0.33 ^t	1.7(0.61)-610	182	394,218°
Benzo(g,h,i)perylene	5/6	19	1.1(0.41)-120	45	6,712 ^e
Benzo(k)fluoranthene	6/6	0.33 ^t	1.5(0.47)-300	129	86,233°
Chrysene	6/6	0.33 ^t	2.1(0.74)-910	239	724,126°
Dibenzo(a,h)- anthracene	5/6	0.38-19	0.38-88	28	16,4 08 °
Fluoranthene	6/6	0.33 ^t	4.2(1.5)-1,300	379	505,372°
Fluorene	6/6	0.33 ^r	0.59(0.15)-200	69	218,424°

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Chemicals of Concern in Hot Spot Soils - Drum Removal Area^a LF-5, Pease AFB, NH (Continued)

Chemical	Frequency of Detection ^b	Range of Sample Quantitation Limits (mg/kg)	Range of Averaged (Detected) Concentrations ^c (mg/kg)	Mean Concentration ^d (mg/kg)	Upper 95% Confidence Limit of the Mean (mg/kg)
Organics (continued)					
Indeno(1,2,3-cd)- pyrene	5/6	19	1.0(0.39)-190	60	27,942 ^e
Phenanthrene	6/6	0.33 ^r	3.7(1.2)-1,200	326	429,142°
Ругепе	6/6	0.33 ^t	61-1,400	354	509,661°
Toluene	2/5	0.006-0.007	0.007(0.004)- 0.082	0.014	2.2°
Inorganics					
Boron	1/3	17-23	18.9	13	64 °
Copper	6/6	3.0 ^r	14.8(13.9)-1 30	31	140°
Lead	6/6	20 ^r	5.1-55.8	23	108 ^e
Mercury	2/4	0.11-0.22	0.29-0.34	0.18	0.90*

The listed chemicals were selected as chemicals of concern for both the human health and ecological risk assessments.

^bNumber of sampling locations at which the chemical was detected compared with the total number of sampling locations.

If the minimum or maximum concentration differed from the minimum or maximum averaged concentration, the detected concentration is given in parentheses. ^dMean was calculated for the averaged concentration using the minimum variance unbiased estimation approach for lognormally distributed

data (F-230).

Exceeds maximum detected and/or averaged concentration.

Sample quantitation limits were unavailable. The method detection limit is indicated (F-484).

Chemicals of Concern in Hot Spot Soils – Staged UST Location^a LF-5, Pease AFB, NH

Chemical	Range of Averaged (Detected) Concentrations ^b
Organics	
Bis(2-ethylhexyl) phthalate	0.24 (0.21-0.27)
Di-n-butyl phthalate	0.048 (0.043-0.052)
PAHs	
Benzo(a)pyrene	0.066 (0.065-0.066)
Chrysene	0.049 (0.048-0.049)
Fluoranthene	0.059 (0.058-0.060)
Ругеле	0.078 (0.071-0.084)
Inorganics	
Arsenic	35.1° (6.2-35.1)
Barium	8,200° (4,430-8,200)
Boron	309 (195-422)
Cadmium	2.4 (2.2-2.5)
Chromium	54.0° (21.0-54.0)
Lead	187 (159-214)
Zinc	1,690° (962-1,690)

The listed chemicals were selected as chemicals of concern for both the human health and ecological risk assessments.

^bThe range represents the analytical results of duplicate samples from one sampling location (364). The arithmetic mean of the samples is presented, unless otherwise indicated, and the results of the duplicate samples are given in parentheses. Because there is only one sampling location, an upper 95% confidence limit of the mean was not calculated.

The higher reported value is indicated instead of the mean because the relative percent difference of the concentrations for the duplicate samples exceeded the criterion (i.e., 50%).

Chemicals of Concern in Groundwater^a - -LF-5, Pease AFB, NH

Chemical	Frequency of Detection ^b	Range of Sample Quantitation Limits (µg/L)	Range of Averaged (Detected) Concentrations ^c (µg/L)	Mean Concentra- tion ^d (µg/L)	Upper 95% Confidence Limit of the Mean (µg/L)
Organics					
Acetone	1/9	10	46	9.6	18
Benzene	9/27	0.7-10	0.35(0.30)-12 (14)	1.5	2.4
Bis(2-ethylhexyl) phthalate	8/25	10-11	1.0-8.3(11)	5.0	5.5
n-Butylbenzene	3/25	1.0	0.45(0.40)-2.0	0.57	0.67
sec-Butylbenzene	8/25	1.0	0.30(0.40)-3.0	0.76	0.98
Chlorobenzene	11/37	1.0-1.2	0.30-66(80)	5.7	9.9
Chloroethane	3/27	2.0-3.0	1.3(1.0)-2.5(3.0)	1.3	1.4
4-Chloro-3- methyiphenol	9/25	10-11	2.5(2.0)-10(11)	5.6	6.1
1,2-Dichloro- benzene	8/27	0.6-2.0	0.30(0.20)-12(32)	1.2	2.0
1,4-Dichloro- benzene	11/27	0.6-1.0	0.20-28(38)	6.4	9.5
Dichlorodifluoro- methane	4/27	2.0-9.0	3.9(2.0)-13(23)	3.2	4.0
1,1-Dichloroethane	5/27	0.4-1.0	0.32(0.50)-14(15)	1.3	2.2
1,2-Dichloroethane	4/27	0.20-1.0	0.26(0.10)- 1.4(2.2)	0.37	0.44
cis-1,2- Dichloroethene	7/27	0.5-1.0	0.30(0.10)-8.6(22)	0.82	1.4
Diethyl phthalate	9/25	10-11	3.7(1.0)-8.3(11)	5.2	5.6
Dimethyl phthalate	4/25	10-11	1.0-8.0(11)	5.2	5.6
Di-n-butyl phthalate	4/25	10-11	3.2(2.0)-8.3(11)	5.4	5.7
Ethyl ether	2/9	2.0	2.0-19(40)	3.1	6.9
Isopropyl-benzene	8/24	1.0	0.50-2.0	0.72	0.87

Chemicals of Concern in Groundwater^a LF-5, Pease AFB, NH (Continued)

Cher	mical	Frequency of Detection ^b	Range of Sample Quantitation Limits (µg/L)	Range of Averaged (Detected) Concentrations ^c (µg/L)	Mean Concentra- tion ^d (µg/L)	Upper 95% Confidence Limit of the Mean (µg/L)
Organics (continued)					
2-Methyl- naphthaler	ne	2/25	7.0-11	8.0(11)-8.3(11)	5.4	5.7
Naphthale	ne	4/25	7.0-11	3.8(1.0)-8.3(11)	5.3	5.6
PAHs Fluoranthe	ene	3/25	10-11	3.3(1.0)-8.3(11)	5.3	5.7
n-Propylbe	enzene	8/25	1.0	0.20-3.0	0.67	0.85
Tetrachlor ethene	0-	6/27	0.2-1.0	0.30-21(56)	1.8	3.3
Trichloroe	thene	6/27	0.6-1.0	0.43(0.51)-27(46)	1.6	3.4
1,2,4-Trime benzene	ethyi-	5/24	1.0	0.10-4.0	0.64	0.90
Xylenes	(total)	3/17	1.6-2.0	1.6(2.0)-2.6(5.7)	1.2	1.4
Inorganics			<u></u>			
Arsenic	(filtered) (total)	13/27 13/19	5-7.5 5-7.4	3.4(5.0)-153(194) 5.0-353	30 65	46 101
Boron	(filtered) (total)	24/26 20/20	100 100 ^e	67(100)-305(340) 100-269	117 133	139 154
Cobalt	(filtered) (total)	4/27 6/20	40-45 40	27(40)-80 40(10)-114(127)	24 34	28 45
Iron	(filtered) (total)	22/27	40-291	31(42)- 55,300(64,800)	8,047	12,933
		20/20	40 ^e	1,620-173,000	40,281	55,640
Manganese	(filtered) (total)	23/27	10-19	10(12)- 5,268(6,260)	842	1,262
		20/20	10 ^e	33-4,370(4,780)	1,470	2,005
Nickel	(filtered) (total)	27/27 20/20	10° 10°	15-82(122) 15-433	25 63	30 99
Selenium	(filtered) (total)	4/27 2/19	5.0 5.0-7.5	3.8(5.0)-5.0 5.0(1.3)-5.0	2.8 2.9	3.0 3.2

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Chemicals of Concern in Groundwater^a LF-5, Pease AFB, NH (Continued)

Cher	mical	Frequency of Detection ^b	Range of Sample Quantitation Limits (µg/L)	Range of Averaged (Detected) Concentrations ^c $(\mu g/L)$	Mean Concentra- tion ^d (µg/L)	Upper 95% Confidence Limit of the Mean (µg/L)
Inorganics	(continued)					
Silicon	(filtered) (total)	25/26 20/20	4,820	3,450(3,570)- 24,850(24,900) 4,630-95,700	8,980 21,306	11,022 29,389
Silver	(filtered) (total)	5/27 5/20	18-30 30	17(30)-30 23(7.5)-30	15 18	17 21
Thallium	(filtered) (total)	8/27 2/19	10-200 10	41(10)-215(589) 10-10	60 5.5	82 6.2

^aSelected as chemicals of concern for the human health risk assessment only.

^bNumber of wells at which the chemical was detected compared with the total number of wells.

If the minimum or maximum detected concentration differed from the minimum averaged concentration, the detected concentration is given in parentheses. ^dArithmetic mean, based on averaged concentrations.

Sample quantitation limits were unavailable. The method detection limit is indicated (F-484).

Chemical	Frequency of Detection ^b	Range of Sample Quantitation Limits (µg/L)	Range of Averaged (Detected) Concentrations ^c (µg/L)	Mean Concentration ^d (µg/L)	Upper 95% Confidence Limit of the Mean (µg/L)
Organics					
Chlorobenzene	1/5	1.0-1.3	0.40	0.53°	0.61°
4,4'-DDD	1/5	0.07-0.10	0.022 (0.01)	0.039 ^e	0.051°
4,4'-DDE	1/5	0.07-0.10	0.013 (0.020)	0.038 ^e	0.053°
4,4'-DDT	1/5	0.07-0.10	0.073 (0.14)	0.050	0.063
1,4-Dichlorobenzene	1/4	0.50-1.0	0.20	0.31*	0.4 2 *
Lindane	1/5	0.033-0.05	0.020	0.021*	0.0 25 *
Tetrachloroethene	1/5	0.20-1.0	0.35 (1.1)	0.38*	0.5 0 *
Inorganics					
Aluminum	1/5	200	765 (1,050)	233	516
Ammonia ^t	2/3	0.10	0.075-0.095	0.13*	0.2 5"
Barium	2/5	50	51 (100)-62 (104)	38	55
Boron	3/5	100	80 (123) - 130 (210)	79	111
Copper	1/5	10-30	24 (34)	12	20
Iron	5/5	0.04 ^g	260 (286) - 2,750 (4,480)	995	1,950
Zinc	5/5	0.01*	7.7 (12)-146	48	102

Chemicals of Concern in Surface Water - Flagstone Brook^a LF-5, Pease AFB, NH

^aUnless otherwise indicated, the chemical was selected as a chemical of concern for both the human health and ecological risk assessments. ^bNumber of sampling locations at which the chemical was detected compared with the total number of sampling locations.

If the minimum or maximum detected concentration differed from the respective minimum or maximum averaged concentration, the detected concentration is given in parentheses.

^dArithmetic mean based on the averaged concentrations.

Exceeds the maximum detected and/or averaged concentration.

Selected as a chemical of concern for the ecological risk assessment only.

Sample quantitation limits were accevailable. The method detection limit is indicated (F-484).

Chemicals of Concern in Surface Water — Railway-Ditch^a LF-5, Pease AFB, NH

Chemical	Frequency of Detection ^b	Range of Sample Quantitation Limits (µg/L)	Range of Averaged (Detected) Concentrations ^c $(\mu g/L)$	Mean Concentration ^d (µg/L)	Upper 95% Confidence Limit of the Mean (µg/L)
Organics		(1-5/2)		(µ5/2)	(#5/~2)
Chlorobenzene	11/15	. 1.0-1.1	0.10-2.0	0.81	1.0
4,4'-DDD	4/14	0.077-0.11	0.03 (0.02) - 0.17 (0.31)	0.064	0.084
4,4'-DDT	2/14	0.077-0.11	0.088 (0.16) - 0.55 (1.4)	0.088	0.15
1,4-Dichlorobenzene	8/15	0.5-1.0	0.25 (0.30)-2.0	0.68	0.94
1,1-Dichloroethane	6/15	0.4-1.0	0.20-2.0	0.53	0.73
cis-1,2-Dichloroethene	11/15	0.67-1.0	0.20-2.0	0.59	0.79
Trichloroethene	8/15	0.60-1.0	0.20-9.0	1.2	2.2
Inorganics					
Aluminum	10/15	200	211-12,467 (37,200)	1,299	2,732
Ammonia	2/4	0.10	0.15-0.27	0.13	0.25
Arsenic	12/15	5.0	4.4 (5.2)-850	84	183
Barium	6/15	50	35-339 (968)	55	92
Boron	11/15	100	106-227 (351)	126	153
Copper	4/15	10-30	11-102 (287)	15	27
Iron	14/15	169	409-220,483 (658,000)	24,669	50,739
Lead	10/15	3.0-5.0	3.1 (3.7)-96 (280)	14	25
Manganese	15/15	10 ^r	72 (35) - 10,897 (31,500)	2,014	3,234
Mercury	1/15	0.1-0.2	0.23 (0.55)	0.077	0.099
Nickel	4/15	15-16	9.6 (15.7)-54 (154)	15	21
Thallium	3/15	10-73	37 (90) - 1,417 (4,240)	118	282
Zinc	12/15	10-13	15 (14)-328 (974)	56	94

Chemicals of Concern in Surface Water — Railway Ditch^{*} LF-5, Pease AFB, NH (Continued)

^aUnless otherwise indicated, the chemical was selected as a chemical of concern for the human health and ecological risk assessments.

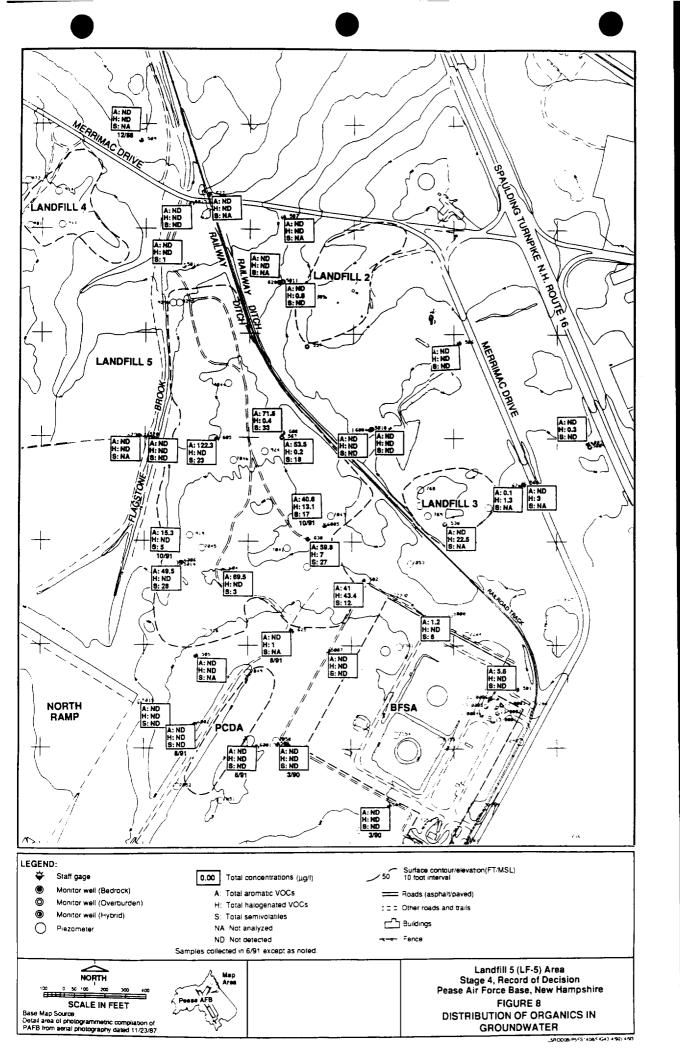
^bNumber of sampling locations at which the chemical was detected compared with the total number of sampling locations.

If the minimum or maximum detected concentration differed from the respective minimum or maximum averaged concentration, the detected concentration is given in parentheses.

^dArithmetic mean based on the averaged concentrations.

"Selected as a chemical of concern for the ecological risk assessment only.

Sample quantitation limits were unavailable. Method detection limit is indicated (F-484).



Chemical	Frequency of Detection ^b	Range of Sample Quantitation Limits (mg/kg)	Range of Averaged (Detected) Concentrations ^c (mg/kg)	Mean Concentration ^d (mg/kg)	Upper 95% Confidence Limit of the Mean (mg/kg)
Organics					
4,4'-DDD	4/5	0.020-0.035	0.009 (0.005)-0.21	0.069	7.5°
4,4'-DDE	3/5	0.018-0.035	0.021-0.12	0.036	0.57 ^e
4,4'-DDT	2/5	0.018-0.085	0.020-0.035	0.023	0.087 ^e
Inorganics					
Antimony	2/5	1.7-26.7	2.5 (2.2)-5.9 (2.5)	6.8°	155°
Boron	3/5	15.8-26.7	4.8 (2.7)-6.1 (5.2)	7.4°	13 ^e
Cadmium	1/5	0.5-2.7	1.2	0.90	3.2*
Lead	5/5	19	7.95 (6.4)-63.1	36	371°
Selenium	1/5	0.17-1.2	0.95	0.55	4.9 ^e
Thallium	1/5	0.13-26.7	9.6 (19.2)	11	23,900,000 ^e

Chemicals of Concern in Sediment - Flagstone Brook^a

*Selected as a chemical of concern for both the human health and ecological risk assessments.

^bNumber of sampling locations at which the chemical was detected compared with the total number of sampling locations.

If the minimum or maximum detected concentration differed from the respective minimum or maximum averaged concentration, the detected concentration is given in parentheses.

^dMean was calculated for the averaged concentrations using the minimum variance unbiased estimation approach for lognormally distributed data (F-230).

Exceeds the maximum detected concentration.

Chamicals of Concern in Sediment - Railway Ditch^a

Chemical	Frequency of Detection ^b	Range of Sample Quantitation Limits (mg/kg)	Range of Averaged (Detected) Concentrations ^c (mg/kg)	Mean Concentration ^d (mg/kg)	Upper 95% Confidence Limit of the Mean (mg/kg)
Organics					
Acetone	3/15	0.013-1.4	0.029-0.20	0.073	0.21°
Benzoic acid	4/13	1.8-16	0.12-14 (27)	3.5	16
Bis(2-ethylhexyl) phthalate	6/14	0.36-7.4	0.18-0.49	0.60 ^e	0.83°
2-Butanone	3/15	0.13-0.77	0.019-0.20	0.024	0.041
alpha-Chlordane ¹	1/15	0.097-4.8	0.11	0.39*	1.0 ^e
gamma-Chlordane ¹	1/14	0.097-4.8	0.078	0.28°	0.67*
4,4'-DDD	8/15	0.022-0.55	0.0038 (0.0017)-3.1 (4.9)	0.68	14 •
4,4'-DDE	10/15	0.022-0.55	0.0029-0.28	0.079	0.31*
4,4'-DDT	9/14	0.022-0.55	0.0074-3.9 (10)	1.1	62 *
1,4-Dichlorobenzene	3/14	0.36-7.4	0.14-0.76	0.64	1.1 *
1,2-Dichloroethene (total)	3/15	0.006-0.068	0.007-0.45	0.019	0.058
PAHs					
Acenaphthene	3/15	0.106-7.4	0.26-0.67	0.37	0.56
Acenaphthylene	2/15	0.136-7.4	0.42-0.79	0.41	0.61
Benzo(a)- anthracene	13/15	0.40-7.4	0.0097 (0.0062)-0.53 (0.59)	0.27	0.91°
Benzo(a)pyrene	12/15	0.0072-7.4	0.0049-0.36	0.25	1.2 ^e
Benzo(b)- fluoranthene	12/15	0.0055-7.4	0.039 (0.0082)- 0.66 (0.76)	0.39	1.7*
Benzo(g,h,i)- perylene	8/15	0.023-7.4	0.020 (0.007)- 0.26	0.25	0.83°
Benzo(k)- fluoranthene	12/15	0.0053-7.4	0.0094 (0.0033)-0.46 (0.76)	0.25	0.96°

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Chemicals	of	Concern	in	Sediment	 Railway	Ditch ^a
		((Cor	itinued)		

Chemical	Frequency of Detection ^o	Range of Sample Quantitation Limits (mg/kg)	Range of Averaged (Detected) Concentrations ^c (mg/kg)	Mean Concentration ^d (mg/kg)	Upper 95% Confidence Limit of the Mean (mg/kg)
PAHs (continued)					
Chrysene	13/15	0.40-7.4	0.036 (0.010)- 0.53 (0.58)	0.30	0.63°
Dibenzo(a,h)- anthracene	3/15	0.0018-7.4	0.0041-0.090	0.37°	6.2 ^e
Fluoranthene	3/15	0.40-7.4	0.087 (0.020)- 0.94 (1.4)	0.44	0.90
Indeno(1,2,3-c,d)- pyrene	9/15	0.013-7.4	0.028 (0.011)- 0.25	0.27 ^e	0.94°
Phenanthrene	8/15	0.084-7.4	0.044 (0.030)- 0.25 (1.4)	0.22	0.41°
Ругепе	12/15	0.082-7.4	0.094 (0.019)- 0.84 (0.94)	0.38	0.80
Inorganics		·			
Antimony	3/15	0.0021-0.26	8.5-24 (35)	18	45°
Arsenic	14/15	8.2	8.0 (4.8)-800	95.6	341
Boron	8/15	23-264	8.9-75	29	48
Cobalt	13/15	13-53	8.7 (7.2)-57	18	25
Iron	15/15	4 ^r	9,340 (8,970)- 195,000	35,400	57,400
Lead	15/15	38	13 (10)-621	106	271
Manganese	15/15	1.0 ^t	185 (97)-8,430	2,610	6,650
Nickel	14/15	66	18 (15)-79	34	41
Zinc	15/15	23	25-409	113	190

^aUnless otherwise indicated, the chemical was selected as a chemical of concern for both the human health and ecological risk assessments. ^bNumber of sampling locations at which the chemical was detected compared with the total number of sampling locations.

If the minimum or maximum detected concentration differed from the respective minimum or maximum averaged concentration, the detected concentration is given in parentheses.

^dMean was calculated for the averaged concentrations using the minimum variance unbiased estimation approach for lognormally distributed data (F-230).

Exceeds the maximum detected and/or averaged concentration.

Sample quantitation limits were unavailable. The method detection limit is indicated (F-484).

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Summary of Chemicals of Concern by Medium^a LF-5, Pease AFB, NH

Image: Solid Solid (Interpretation) Solid (Interpretation) Solid (UST Area) S X X Incation) Groun S X X X X S X X X X S X X X X Phthalate X X X X S X X X X S X X X X S X X X X S X X X X S X X X X S X X X X S X X X X S X X X X S X X X X S X X X X S X X X X S X X X X S X X X X S X X X X S X X X X S X X X X <t< th=""><th></th><th></th><th>Soil (Drum</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>			Soil (Drum						
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e^{e} x	Bis(2-ethylhexyl) phthalate	x		×	×				X
e^{-} x	2-Butanone								×
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e x	sec-Butylbenzene				×				
e x	alpha-Chlordane		×						٩×
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I phenol x x x x	Chlorobenzene				x	×	×		
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	Dieldrin	×	×						
	Dicthyl phthalate				x				

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Summary of Chemicals of Concern by Medium^a LF-5, Pease AFB, NH (Continued)

		Soil (Drum						
	Soil	Excavation	Soil (UST	<u></u>	Surface Water-	Surface Water-	Sediment-	Sediment-
Chemical	(Main)	Arca)	- 77 -	Groundwater	Flagstone Brook	Railway Ditch	Flagstone Brook	Railway Ditch
Dimethyl phthalate				x x				
Di-n-butyl phthalate	×		×	×				
Ethyl cther				×				
Heptachlor		×						
Isopropyl benzene				×				
Lindane					×			
2-Methylnaphthalene	x	×		×				
Naphthalcne	×	×		×				
PAHs								
Acenaphthene	×	×						×
Acenaphthylene	×							x
Anthracene	x	x						
Benzo(a)anthracene	x	х						×
Benzo(a)pyrene	x	×	×					×
Benzo(b)fluoranthene	x	x						×
Benzo(g,h,i)perylenc	x	x						×
Benzo(k)fluoranthene	×	×						×
Chrysene	×	×	×					×
Dibenzo(a,h)anthracene	×	x						×
Fluoranthene	×	×	×	x				×
Fluorenc	×	x						
Indeno(1,2,3-c,d)pyrene	×	x						×
Phenanthrenc	×	x						×
Pyrene	×	x	x					x
Pentachlorophenol	Х							

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Summary of Chemicals of Concern by Medium^a LF-5, Pease AFB, NH (Continued)

		Soil (Drum						
	Soil	Excavation	Soil (UST		Surface Water-	Surface Water-	Scdiment-	Sediment-
Chemical	(Main)	Area)	Location)	Groundwater	Flagstone Brook	Railway Ditch	Flagstone Brook	Railway Ditch
n-Propylbenzene			-	×				
Tetrachloroethene				×	×			
Tolucne		×						
Trichloroethen				×		×		
1,2,4-Trimethylbenzene				×				
Xylenes				×				
Inorganics								
Aluminum					×	x		
Ammonia					х ^ь	٩×		
Antimony							×	x
Arsenic	×		x	x		x		x
Barium			x		×	X		
Boron		x	х	x	x	x	×	x
Cadmium	x		×				×	
Chromium			×					
Cobalt				×				x
Copper	x	x			×	×		
Iron				x	Х	x		x
Lead	x	x	×			x	×	x '
Manganese	x			×		×		x
Mercury	x	x				×		
Nickel				x		×		×
Selenium				×			×	
Silicon				x				
Silver				x				

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Summary of Chemicals of Concern by Medium^a LF-5, Pease AFB, NH (Continued)

		Soil (Drum						
	Soil	Excavation	Soil (UST		Surface Water— Surface Water—	Surface Water-	Sediment-	Sediment-
Chemical	(Main)	Arca)	Location)	Groundwater	Flagstone Brook	Railway Ditch	Flagstone Brook	Railway Ditch
Thallium				x		X	x	
Zinc	x				x	x		x

^AAn "x" indicates that the chemical was selected as a chemical of concern for both the human health and ecological risk assessments, unless otherwise indicated. ^bSelected as a chemical of concern for the ecological risk assessment only. ^cUis-isomer. ^dData were for "total" isomers (i.e., cis- and trans-).

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The potential human health effects associated with exposure to the contaminants of concern were estimated quantitatively through the development of several hypothetical exposure pathways. These pathways were developed to reflect the potential for exposure to hazardous substances based on the present uses, potential future uses, and location of the site.

LF-5 is the largest of the landfills within Zone 1 and is located in the center of the zone. LF-5 currently is not used. The only site being used within Zone 1 is Site 13, the BFSA. It is assumed that future land use within Zone 1 will be restricted to prohibit building construction on the landfills, which includes LF-5. The areas within the zone that are currently or have previously been used for industrial purposes are assumed to have an industrial future use potential. However, areas adjacent to the landfills could be future residential areas, particularly in the northern, eastern, and western portions of the zone.

Two surface water bodies, Flagstone Brook and the Railway Ditch, are associated with LF-5. These surface waters may potentially be affected by site contaminants through groundwater discharge and overland flows. Flagstone Brook and the Railway Ditch have no current uses. It is possible, however, that if residential development were to occur in Zone 1 in the future, these surface waters could be used for recreational activities (e.g., wading).

Groundwater is not currently used on or immediately downgradient of the site. However, it is possible that in the future the groundwater may be used on the base for industrial purposes (i.e., drinking water, showering, process water) or, if residences were to be built within Zone 1, for domestic use. As such, human health risks due to exposure to groundwater at LF-5 were evaluated in the LF-5 RA included in the LF-5 FS (F-494). While future groundwater use is evaluated in the RA, it is most likely that current off-base public water supply sources would be used. Groundwater is currently used for domestic purposes by local off-base residents. An extensive survey of private wells has given no indication that groundwater contaminants associated with LF-5 have affected private wells.

The following is a brief summary of the exposure pathways evaluated. A more thorough description can be found in Subsection 6.3.1 of the RA (Subsection 6.3.1 of the RI). Only source control remedial actions are considered in this ROD. Groundwater

remedial actions will be addressed in the Zone 1 FS, scheduled for completion in September 1993.

Only one current exposure pathway was evaluated, based on current land use scenarios. The current on-site maintenance worker was assumed to be exposed to contaminants via: 1) incidental soil ingestion, and 2) dermal contact with soil. In each case, the exposure frequency was assumed to be 250 days/year for a duration of 25 years. For ingestion, rates of 7.8 mg/day for the main landfill, 3.1 mg/day for the drum removal area, and 1.6 mg/day for the staged underground storage tank (UST) area were assumed. The drum removal area and staged UST area are locations on the landfill that were identified as hot spots and were consequently evaluated separately in the RA because of the type and concentrations of contaminants in these areas.

Future use exposure pathways evaluated were as follows:

- <u>Soil</u> Future maintenance worker (same exposure parameters as current maintenance worker).
- <u>Surface water</u> There are two potentially exposed populations:
 - Future Zone 1 resident This scenario assumes exposure via dermal contact (wading) at a rate of 1 hour/event at a frequency of 75 events per year for Flagstone Brook and 25 events/year for the Railway Ditch, all over a period of 30 years.
 - Future Zone 1 recreational user This scenario assumes the same exposure rate, frequency, and duration as the residential scenario.
- <u>Sediment</u> Again, both future residential and recreational users are evaluated. In each case, both incidental ingestion and dermal contact were assumed to occur at a rate of 6.25 mg/day (both Flagstone Brook and the Railway Ditch) at frequencies of 75 events/year and 25 events/year for Flagstone Brook and the Railway Ditch, respectively. In each instance, an exposure duration of 30 years was assumed.

Summaries of exposure parameters for each pathway evaluated are presented in Table 13 (i.e., exposure frequency, exposure duration, etc.). For each pathway evaluated, an average

Summary of Exposure Parameters LF-5, Pease AFB, NH

All exposure routes Averaging time - noncarcinogenic risk risk Averaging time - carcinogenic risk Averaging time - carcinogenic risk Body weight Groundwater ingestion adult resident Ingestion rate Body weight Exposure frequency Body weight Body weight Body weight Ingestion rate Body weight Body weight Body weight Body weight	Averaging time – noncarcinogenic risk Averaging time – carcinogenic risk	Exposure duration (years) x 365 days/year.	R_171
	 carcinogenic risk 		1/1.1
		70 years x 365 days/year.	F-171
		70 kg.	F-202
		2 liters/day.	F-202
	ncy	350 days/ycar.	F-202
	U	30 years.	F-202
	ent	2 liters/day.	F-197
1 Concent Other parameters	S	Same as groundwater ingestion route.	
Incidental soil ingestion – maintenance Ingestion rate worker		7.8 mg/day (7.8E-06 kg/day) for the main landfill, based on an estimated 1.25 hours of exposure per day and an ingestion rate of 50 mg/8-hour workday.	F-202 (daily ingestion rate)
		3.1 mg/day (3.1E-06 kg/day) for the drum removal area, based on an estimated 0.5 hour of exposure per day and an ingestion rate of 50 mg/8-hour workday.	
		1.6 mg/day (1.6E-06 kg/day) for the staged UST location, based on an estimated 0.25 hours/day and an ingestion rate of 50 mg/8-hour workday.	
Exposure frequency	ncy	250 days/year.	F-202
Exposure duration	u	25 years.	F-202

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Summary of Exposure Parameters LF-5, Pease AFB, NH (Continued)

Exposure Route/Receptor	Ρ	Parameter	Reference
Dermal contact with soil – maintenance workcr	Surface area	1,000 cm ² (one-half of the mean hand and forearm surface area of adult males).	F-133; F-176
	Adherence factor	5E-07 kg/cm ² .	F-176
	Other parameters	Same as incidental soil ingestion route.	
Dermal contact with surface water	Surface area	6,300 cm ² (based on mean leg and feet surface area of adults).	F-103
	Exposure time	1 hour/cvent for Flagstone Brook and the Railway Ditch.	Estimated, site- specific
	Exposure frequency	75 events/year for Flagstone Brook	F-197
		(estimated).	(75 events
		25 events/ycar for the Railway Ditch (estimated).	total/year)
	Exposure duration	30 years.	F-202
Incidental sediment ingestion — adult resident/recreational user	Ingestion rate	6.25 mg/day (6.25E-06 kg/day) for Flagstone Brook and the Railway Ditch, based on an estimated 1 hour of exposure per day and a consumption of 100 mg/16 waking hours (based on the daily soil	F-202 (daily soil ingestion rate)
		ingestion rate).	
	Exposure frequency	75 events/year for Flagstone Brook	F-197
		(estimated).	(75 events
		25 events/year for the Railway Ditch (cstimated).	total/ycar)
	Exposure duration	30 years.	F-202

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Summary of Exposure Parameters LF-5, Pease AFB, NH (Continued)

Exposure Route/Receptor		Parameter	Reference
Dermal contact with sediment – adult resident/recreational user	Skin surface area	1,000 cm ² .	F-176
	Sediment-to-skin adherence factor	5E-07 kg/cm ² (assumed to be the same as soil).	F-176
	Other parameters	Same as incidental sediment ingestion	
		exposure route.	

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and a reasonable maximum exposure estimate was generated corresponding to exposure to the average and the maximum concentration detected in that particular medium.

Excess lifetime cancer risks were determined for each exposure pathway by multiplying the exposure level with the chemical-specific cancer factor. Cancer potency factors have been developed by EPA from epidemiological or animal studies to reflect a conservative "upper bound" of the risk posed by potentially carcinogenic compounds; i.e., the true risk is unlikely to be greater than the risk predicted. The resulting risk estimates are expressed in scientific notation as a probability (e.g., 1 x 10^{-6} for 1/1,000,000) and indicate (using this example), that an average individual is not likely to have greater than a one-in-one-million chance of developing cancer over 70 years as a result of site-related exposure as defined for the compound at the stated concentration. Current EPA practice considers carcinogenic risks to be additive when assessing exposure to a mixture of hazardous substances.

The hazard index was also calculated for each pathway as EPA's measure of the potential for noncarcinogenic health effects. A hazard quotient is calculated by dividing the exposure level by the reference dose (RfD) or other suitable benchmark for noncarcinogenic health effects for an individual compound. Reference doses have been developed by EPA to protect sensitive individuals over the course of a lifetime and they reflect a daily exposure level that is likely to be without an appreciable risk of an adverse health effect. RfDs are derived from epidemiological or animal studies and incorporate uncertainty factors to help ensure that adverse health effects will not occur. The hazard quotient is often expressed as a single value (e.g., 0.3) indicating the ratio of the stated exposure as defined to the reference dose value (in this example, the exposure as characterized is approximately one-third of an acceptable exposure level for the given compound). The hazard quotient is only considered additive for compounds that have the same or similar toxic endpoint and the sum is referred to as the hazard index (HI). (For example, the hazard quotient for a compound known to produce liver damage should not be added to a second whose toxic endpoint is kidney damage.)

Calculated risks for each individual chemical of concern for each exposure pathway evaluated are presented in Appendix L.7 of the RA. A summary of additive chemical risks for each pathway evaluated is presented in Table 14 of this ROD. The conclusions of the human health risk assessment are summarized in the paragraphs that follow.

For the main landfill soils, the cancer risks ranged from 1×10^{-5} to 9×10^{-4} . The chemicals contributing most of the risk were PAHs (>10⁻⁴). Aroclor-1242, Aroclor-1248, dieldrin, and arsenic each posed a risk of >10⁻⁶. The cancer risks posed by contact with hot spot soils was 5×10^{-7} for the staged UST location and ranged from 1×10^{-3} to 4×10^{-3} for the drum removal area. PAHs contributed most of the risk for the drum removal area (>10⁻⁴), followed by dieldrin (>10⁻⁶). There was no apparent risk of noncancer health effects posed by contact with either main landfill or hot spot soils. The hazard indices for soil were below 1 at all exposure concentrations.

Cancer risks based on future groundwater use ranged from 6×10^{-6} to 3×10^{-3} based on filtered samples and 1×10^{-3} to 7×10^{-3} based on unfiltered (total) samples. Arsenic posed the highest risk (>10⁻⁴). Benzene, bis-(2-ethylhexyl) phthalate (DEHP), 1,4-dichlorobenzene, 1,2-dichloroethane, tetrachloroethene, and trichloroethene each posed greater than a 10^{-6} risk. The total hazard indices ranged from 30 to 100 based on filtered samples, and from 10 to 40 based on unfiltered samples. Arsenic and thallium had hazard indices that exceeded 10; manganese had a hazard index that exceeded 1. Thallium was detected in unfiltered samples only during one sampling round. The presence of thallium could not be confirmed during subsequent sampling rounds.

The cancer risks posed by surface water contact were minimal, ranging from $9 \ge 10^{-10}$ to $5 \ge 10^{-8}$ for Flagstone Brook, and from $1 \ge 10^{-9}$ to $8 \ge 10^{-8}$ for the Railway Ditch. The hazard indices for both surface waters were below the criterion of 1.

The cancer risks posed by contact with sediment in Flagstone Brook were minimal, ranging from 2×10^{-10} to 3×10^{-9} . The cancer risks posed by contact with sediment in the Railway Ditch ranged from 2×10^{-7} to 4×10^{-6} . Arsenic was the only chemical of concern that

Summary of Total Lifetime Cancer Risks and Hazard Indices

Table 14

		Total	Total Lifetime Cancer Risk*	Risk ^{ab}	L	Total Hazard Index ^{a,c}	ט'פ
		:	Upper 95 Percent Confidence			Upper 95 Percent Confidence	
Medium	KME	Mean	Limit	Maximum	Mcan	Limit	Maximum
Main soils	Current or future maintenance worker	1E-05	4E-05	9E-04	1E-02	2E-02	2E-01
Hot spot soils – drum removal area	Current or future maintenance worker	1E-03	4E-03	4E-03	2E-01	6E-01	6E-01
Hot spot soils – staged UST location	Current or future maintenance worker	5E-07	NA	AN	7E-03	AN	ΥN
Groundwater ⁴	Future resident	6E-04 (filtered) 1E-03 (total)	1E-03 (filtered) 2E-03 (total)	3E-03 (filtered) 7E-03 (total)	3E+01 (filtcred) 1E+01 (total)	4E+01 (filtcrcd) 1E+01 (total)	1E+02 (filtered) 4E+01 (total)
Surface water – Flagstone Brook	Current maintenance worker	9E-10	1E-09	1E-09	9E-06	1E-05	1E-05
	Future resident/- recreational user	4E-08	5E-08	5E-08	4E-04	4E-04	5E-04
Surface water – Railway Ditch	Current maintenance worker	1E-()9	2E-09	5E-09	1E-05	2E-05	6E-05
	Future resident/- recreational user	2E-08	3E-08	8E-08	1E-04	2E-04	8E-04
Sediment – Flagstone Brook	Current maintenance worker	2E-10	5E-10	5E-10	2E-04	3E-04	3E-04

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Summary of Total Lifetime Cancer Risks and Hazard Indices (Continued)

		Total	Total Lifetime Cancer Risk ^{1b}	Risk ^{ab}	L	Total Hazard Index*c	0. •
Medium	RME	Mean	Upper 95 Percent Confidence Limit	Maximum	Mcan	Upper 95 Percent Confidence Limit	Maximum
	Future resident/- recreational user	1E-09	4E-09	3E-09	2E-03	4E-03	4E-03
Sediment – Railway Ditch	Current maintenance worker	2E-07	5E-07	9E-07	8E-04	2E-03	5E-03
	Future resident/- recreational user	7E-07	2E-06	4E-06	3E-03	1E-02	2E-02

NA = Not applicable.

*Values are rounded to one significant number. •Maximum cancer risk at hazardous waste sites are regulated in the range of 1E-06 to 1E-04 (10⁻⁶ to 10⁻⁴). Risks of less than 1E-06 (10⁻⁶) are generally not of concern.

⁴A hazard index of one (1E+00) or greater is usually considered the benchmark of potential concern. ⁴Filtered^{*} and "total" values are based on inorganics data for filtered and unfiltered (total) samples, respectively.

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posed greater than a 10^{-6} risk. The hazard indices for sediment from both Flagstone Brook and the Railway Ditch were below the criterion of 1. -

B. Ecological Risk Assessment

The objectives of the ecological risk assessment were to identify and estimate the potential ecological impacts associated with the chemicals of concern at LF-5, Pease AFB. The assessment focused on the potential impacts of chemicals of concern found in the soil, surface waters, and sediments to terrestrial and aquatic flora and fauna that inhabit or are potential inhabitants of the site, including Flagstone Brook and the Railway Ditch.

The species evaluated and their relevant exposure pathways are listed as follows:

White-Tailed Deer

- Incidental ingestion of soil.
- Ingestion of vegetation (browse).
- Ingestion of surface water.

<u>Shrew</u>

- Incidental ingestion of soil.
- Ingestion of soil invertebrates (earthworms).

<u>Robin</u>

- Ingestion of soil invertebrates (earthworms).
- Ingestion of surface water.

Earthworm

• Ingestion/absorption of soil.

Aquatic Biota

- Direct contact with surface water.
- Direct contact with sediments.

Terrestrial Plants

• Direct contact with soil.

Although wildlife present at LF-5 may be exposed to chemicals of concern through the dermal absorption and inhalation routes, there is little scientific information available with which to assess these types of exposures; therefore, these routes of exposure were not evaluated in the RA. It was assumed that exposure to terrestrial wildlife primarily occurs when the animals feed in those areas affected by site contamination. For this assessment, avian and mammalian species with the greatest potential for exposure were selected for evaluation of exposure. Species selected were representative of major foraging guilds and trophic levels that are present at LF-5. Although amphibians and reptiles are important components of this ecosystem, sufficient exposure and toxicity data were not available for their evaluation. However, a brief discussion of potential sensitivity of these phylogentic groups to environmental perturbations were included in the uncertainty analysis. An ecological inventory of Pease AFB by the New Hampshire Natural Heritage program did not identify any threatened, endangered, or species of special concern at LF-5.

The aquatic life inhabiting Flagstone Brook and the Railway Ditch was described in Section 3 of the RI. The transport and fate of chemicals migrating from the site via surface water runoff, groundwater discharge, or air transport of dust or vapors may potentially result in the exposure of flora and fauna that inhabit these surface waters. NHDES has adopted many of the AWQC developed by EPA for the protection of 95% of all aquatic life, including fish, aquatic invertebrates, and plants. Comparisons of surface water concentrations with the New Hampshire AWQC for the protection of freshwater aquatic life were used to assess the likelihood of adverse effects to aquatic life. Where AWQC were not available for contaminants of concern, toxicity values were developed from toxicological

data in the literature. Where possible, the lowest observed effect level (LOEL) for a species similar to those reported in Flagstone Brook or the Railway Ditch was used.

During the FS, in order to assess potential adverse effects to aquatic life from exposure to sediments, chemicals of concern identified in the sediments of Flagstone Brook and the Railway Ditch were compared with biological effect levels developed by NOAA. The biological effect level used in this assessment was an environmental Effect Range-Low (ER-L) value, which is a concentration that is the lower tenth percentile of a range of sediment concentrations in which biological effects have been observed. Whenever an ER-L was not available for an organic nonpolar chemical, interstitial water concentrations were estimated using the equilibrium partitioning (EP) approach and compared to AWQC or toxicity data.

Since completion of the LF-5 Draft Final FS (F-494), it has been determined via review of RA protocols, review of characterization study results for Pease AFB, RI/FS experience at other sites, and discussions with EPA Region I representatives that ER-Ls are unrealistically conservative. Consequently a revised approach to selecting cleanup goals for organic compounds in sediments was instituted at Pease. Rather than using ER-Ls as cleanup goals for organics in sediments, the EP method was used to calculate sediment cleanup goals. Under this method the cleanup goal for a specific organic compound in sediment would be set at that compound concentration in sediment which would not partition to the pore water at a concentration exceeding an established AWQC or other toxicity value. Cleanup goals established for organic contaminants in sediments, as presented in this ROD, may be revised prior to remediation. Cleanup goals for metals in sediments will continue to be ER-Ls.

In addition to the comparisons just described, a qualitative evaluation of the benthic community sampling results was presented in Subsection 3.5.3 of the RI and will be summarized in the paragraphs that follow.

The distribution and composition of vegetative communities observed at LF-5 were described in Subsection 3.5.1 of the RI. A direct comparison of soil concentrations with

available phytotoxicity data was used to qualitatively assess potential adverse effects on vegetation.

There is currently no EPA guidance for quantitatively evaluating potential adverse effects to plants growing in contaminated soils. Based on a visual inspection of plants grown at LF-5, no signs of phytotoxic effects (i.e., necrosis, chlorosis, or stunted growth) were observed. New Hampshire and EPA AWQC provide protection for 95% of all aquatic life, including plants. Therefore, potential toxicity to aquatic plants was not evaluated separately, but was taken into account in the comparison of surface water concentrations to the New Hampshire and EPA AWQC. In the case of rooted or emergent aquatic plants, sufficient toxicity data were not available, and therefore, rooted and emergent aquatic plants were not evaluated in the RA.

The results of the environmental evaluation indicate chemicals of concern identified in the surface soils, surface waters, and sediments at LF-5 may adversely affect selected target species and aquatic life. In general, the chemicals of concern, by medium, that contributed most to the total hazard indices were as follows:

- Soil Pesticides, benzo(a)pyrene, lead, and zinc.
- Surface waters Aluminum, copper, iron, lead, zinc, and DDT.
- Sediments Arsenic, DDT, DDD, DDE, alpha-chlordane, gamma-chlordane, and lead.

Total hazard indices, for target species, based on average and maximum exposure concentrations ranged from 2.76 (deer; hot spot) for average exposure concentrations to 2.86×10^4 (masked shrew; hot spot) for maximum exposure concentrations. The hazard indices for LF-5 surface water evaluations, average and maximum concentrations, ranged from 1.47 (Flagstone Brook; acute criteria) to 2,810 (Railway Ditch; chronic criteria), respectively. The hazard indices calculated for the LF-5 sediment evaluation ranged from 77.4 (Flagstone Brook; average concentration) to 12,800 (Railway Ditch maximum concentration).

Macrobenthos population analyses were also conducted in Flagstone Brook and the Railway Ditch to provide information in support of the ecological risk assessment for LF-5. Results of the community analyses are discussed in the paragraphs that follow. A total of 1,626 benthic macroinvertebrates representing 47 taxa were collected in 20 samples from in and adjacent to Flagstone Brook stations 8031, 821, 819, and 818. Information on taxa and pollution tolerance values were used to calculate biotic indices for each of the taxa encountered.

The one-way analysis of variance (ANOVA) statistical method was performed on the data set to determine whether a significant difference in the total number of organisms and total number of taxa existed between sampling stations. The data show a downstream increase in the total number of taxa while the total number of individuals exhibits no significant increase.

Index values were computed for each sample data set from Flagstone Brook. A general trend was observed in the biotic index for Flagstone Brook. At station 8031, the biotic index of 3.1 is indicative of fair water quality. The next station downstream, station 821, had the highest biotic index value (3.8), which is indicative of poor water quality, while biotic index values at stations 819 (3.2) and 818 (2.7) exhibited an improvement in water quality downstream of LF-5. The lowest biotic index value was observed at station 818, which is indicative of good water quality. This corroborates the diversity, evenness, and community similarity data that indicate a downstream improvement in water quality below LF-5.

For the Railway Ditch, a total of 218 benthic macroinvertebrates representing 22 taxa were collected from three stations (826, 826, and 828). Stations 827 and 828 were located in the Railway Ditch, and station 826 was located as a control point west of Flagstone Brook. Station 826 was located in a stream similar in size and characteristics to the Railway Ditch stations for use as a control or reference station to compare surface water, sediment, and macrobenthos data. The control station (826) had the most taxa (13) and the largest number of individuals (190) of the three stations sampled. Stations located downstream of LF-5 exhibited a decrease in the total number of taxa in comparison to station 826.

Additionally, downstream stations had lower total numbers of individuals in comparison to station 826. -

A one-way ANOVA was performed on the quantitative data set to determine whether a significant difference in total number of individuals and total number of taxa existed between each sampling station. The results of this statistical analysis indicated that station 826 (control) had significantly more organisms and taxa than either of the two stations located in the Railway Ditch (827 and 828). There were no statistical differences between the two downstream stations with respect to either the number of organisms or the number of taxa.

Station 826, the control station, had a biotic index value of 3.4, which is indicative of fair to poor water quality, while stations 827 and 828 had index values indicative of good water quality. The two downstream stations had similar biotic index values, diversities, and species composition and are different from the community at station 826.

Actual or threatened releases of hazardous substances from this site, if not addressed by implementing the response action selected in this ROD, may present an imminent and substantial endangerment to public health, welfare, or the environment. However, remediation of LF-5 soils and sediments under the ROD will serve to eliminate LF-5 as a source of contamination, thereby reducing the threat of endangerment. Additionally, Zone 1 groundwater remediation, which is to be addressed in the Zone 1 Draft Final FS (completed in August 1993) will reduce contaminant mobility such that future human health and ecological risks via exposure to groundwater and surface water at and around LF-5 will be reduced to acceptable levels.

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VII. DEVELOPMENT AND SCREENING OF ALTERNATIVES

A. Statutory Requirements/Response Objectives

Section 121 of CERCLA establishes several statutory requirements and preferences, including: remedial actions must be protective of human health and the environment; remedial actions, when complete, must comply with all federal and more stringent state environmental standards, requirements, criteria, or limitations, unless a waiver is invoked; the remedial action selected must be cost-effective and utilize permanent solutions and alternative treatment technologies or resource recovery technologies to the maximum extent practicable; and a preference for remedies in which treatment that permanently and significantly reduces the volume, toxicity, or mobility of the hazardous substances is a principal element over remedies not involving such treatment. Response alternatives were developed to be consistent with these mandates.

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Based on preliminary information relating to types of contaminants, environmental media of concern, and potential exposure pathways, RAOs were developed to aid in the development and screening of alternatives. These RAOs were developed to mitigate existing and future potential threats to public health and the environment via source control. These response objectives for sediment were:

- To protect ecological receptors from direct contact with, or ingestion of, sediment containing contaminants in excess of concentrations that may present a health risk (total hazard index greater than 1).
- To protect human receptors from direct contact with, or ingestion of, sediment containing contaminants in excess of concentrations that may present a health risk (total cancer risk greater than 10⁻⁴ and a total hazard index greater than 1).

Because contaminants in sediment in Flagstone Brook may be originating from upgradient locations, including the North Ramp, remediation of Flagstone Brook sediments will not be addressed in this ROD, but will be addressed in the Zone 1 ROD, as appropriate.

The response objectives for landfill soil and solid wastes were the following:

- To protect humans from direct contact with, or ingestion of, contaminated soils or debris that may present a health risk (total cancer risk greater than 10^4 or a total hazard index greater than 1).
- To protect ecological receptors from direct contact with, or ingestion of, soil or debris containing contaminants in excess of concentrations that may present health risks (total hazard index greater than 1).
- To reduce the migration of contaminants from soil or debris into the groundwater, which may inhibit attainment of the groundwater RAOs for Zone 1.
- To reduce the migration of contaminants from soil or debris into surface water, which may inhibit attainment of the surface water RAOs for Zone 1.

The source control response objective for groundwater and surface water was the following:

• To reduce the migration of contaminants from sediments and landfill soil and solid wastes within the LF-5 source area, which may inhibit attainment of the groundwater and surface water remedial objectives for Zone 1.

The remedial response objectives for mitigation of contaminant migration will be addressed in the Zone 1 FS and its subsequent ROD.

B. Technology and Alternative Development and Screening

CERCLA and the National Contingency Plan (NCP) set forth the process by which remedial actions are evaluated and selected. In accordance with these requirements, a range of alternatives was developed for LF-5.

With respect to source control, the RI/FS developed a range of alternatives in which treatment that reduces the toxicity, mobility, or volume (TMV) of the hazardous substances is a principal element. This range included an alternative that removes or destroys hazardous substances to the maximum extent feasible, eliminating or minimizing to the degree possible the need for long-term management. This range also included alternatives that treat the principal threats posed by the site but vary in the degree of treatment

employed and the quantities and characteristics of the treatment residuals and untreated waste that must be managed; alternatives that involve little or no treatment but provide protection through engineering or institutional controls; and a no action alternative.

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VIII. DESCRIPTION OF ALTERNATIVES

The information presented in the LF-5 Draft Final RI was used to prepare an FS. The FS provides a screening of 13 source control remedial alternatives. Five alternatives passed through the screening process and were retained for detailed evaluation.

This section provides a narrative summary of each alternative evaluated. A detailed tabular assessment of each alternative can be found in Table 5.3-1 of the FS.

A. Source Control Alternatives Analyzed

The source control alternatives analyzed for the site include:

- Alternative SC-1: No Action/Institutional Controls (considered as a baseline requirement by CERCLA).
- Alternative SC-2A: Sediment and Landfill Consolidation, Landfill Capping, and Potential On-site Construction Dewatering, Treatment, and Disposal.
- Alternative SC-3A: Sediment Consolidation, Landfill Capping, and On-site Landfill Waste Dewatering, Treatment, and Disposal.
- Alternative SC-4D: Sediment and Landfill Consolidation, Hot Spot Thermal Treatment On-site, Landfill Capping, and Potential On-site Construction Dewatering, Treatment, and Disposal.
- Alternative SC-5A: Sediment and Landfill Waste On-site RCRA Landfilling and Potential On-site Construction Dewatering, Treatment, and Disposal.

<u>Alternative SC-1 – No Action/Institutional Controls</u>

This alternative was evaluated in detail in the FS to serve as a baseline for comparison with the other remedial alternatives under consideration. Under this alternative, no treatment or containment of disposal areas would occur. This alternative does include fencing and deed restrictions for the property, and also includes a long-term monitoring program. This alternative would not meet the source control remedial objectives for the site. Estimated time for design and construction: 2 months Estimated period for operation: 30 years Estimated capital cost: \$174,400 Estimated operation and maintenance cost (net present worth): \$2,948,315 Estimated total cost (net present worth): \$3,123,000

<u>Alternative SC-2A – Sediment and Landfill Consolidation, Landfill Capping, and On-site</u> <u>Groundwater Treatment and Disposal for Construction Dewatering</u>

This alternative involves excavation and consolidation of: 1) sediments containing contaminants at levels in excess of established treatment goals, and 2) landfill debris and contaminated soils that would otherwise remain in contact with groundwater after landfill capping. During excavation, air emissions would be controlled with synthetic covers, such as geomembranes. Also during construction, the excavation would be dewatered via a system of advancing well points. Extracted groundwater would be treated in an on-site mobile unit to meet site-specific groundwater treatment goals (either risk-based, or based on federal/state groundwater MCLs). These goals will be met via multimedia filtration, ion exchange, and activated carbon adsorption. Treated water would be discharged to the local POTW via existing sewer lines. Therefore, treated water would meet Federal Clean Water Act (CWA, 40 CFR 403) pretreatment standards for discharge to a POTW. In addition, the treated water would meet New Hampshire pretreatment standards, per Env-Ws 900, Part 904.07, as well as requirements imposed by the local POTW. Following consolidation, the landfill would be capped with a composite-barrier-type cap. A security fence and deed restrictions would be used to prevent unauthorized access and future activities that could compromise the composite-barrier cap integrity.

Based on the MODFLOW model, approximately $53,500 \text{ yd}^3$ of saturated landfill material would require consolidation. The total excavated volume is estimated at 145,500 yd³. Additionally, sampling results suggest that a total sediment volume of 9,600 yd³ would require consolidation. The additional LF-2/LF-4 debris, which will also be consolidated on LF-5 (see Sections IV and XII), would increase the total excavated volume by approximately 76,320 yd³. This is an increase of greater than 100% in volume. However, when this volume is partially used to fill the excavation at LF-5, and partially spread over an area of

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28 acres on top of LF-5, cap design and final grading are unaffected. Additional volumes from LF-2/LF-4 and additional costs (if any) associated with placement of LF-2/LF-4 soils and debris on LF-5 are discussed in the Proposed Plan for LF-2/LF-4 completed in July 1993.

Risks posed by exposure to contaminated sediments, soils, and debris would be eliminated as soon as the cap is in place. This would also minimize the potential for LF-5 to act as a source of surface water and groundwater contamination by reducing the mobility of contaminants in the landfill materials and sediments. All soil, sediment, and air applicable or relevant and appropriate requirements (ARARs) would be met.

Treatment residuals, including concentrated salt solution and iron sludge, would be disposed of off-site. Spent activated carbon would be transported off-site for regeneration or disposal.

For implementation of Alternative SC-2A, acquisition of approvals from and coordination with the New Hampshire Wetlands Board and NHDES would be required. Quarterly air monitoring and bi-annual groundwater modelling would be required. Per CERCLA guidance, the monitoring is estimated to continue for a period of 30 years (for costing purposes), with the understanding that continued monitoring or other remedial actions subsequent to the 30-year period, are the responsibility of the Air Force. Five-year reviews to assess performance of the containment system would also be needed.

Estimated time for design and construction: 1 year Estimated time of operation: 30 years Estimated capital cost: \$17,362,700 Estimated operation and maintenance cost (net present worth): \$6,629,721 Estimated total cost (net present worth): \$23,992,000

<u>Alternative SC-3A – Excavation and Consolidation of Sediments on Landfill, Landfill</u> <u>Capping, and On-site Landfill Waste Dewatering, Treatment, and Disposal</u>

Under Alternative SC-3A, excavation and placement of an estimated $9,600 \text{ yd}^3$ of contaminated sediments and regrading and capping the existing landfill would occur as

described for Alternative SC-2A. No landfill excavation would be performed; however, landfill debris would be dewatered. Dewatering would occur such that-the post-capping water table would be lowered to a level 2 feet below the debris. This difference would minimize some of the short-term impacts associated with landfill excavation; however, it would require long-term groundwater extraction and possibly treatment in order to keep the waste dewatered. The dewatering strategy is based on water-table elevations predicted by the MODFLOW model. The dewatering system would consist of six extraction wells and a collection trench. The combined groundwater extraction rate for the six wells is expected to average 45 gallons per minute (gpm). The bottom of the collection trench would be set at 80 feet above mean sea level (MSL).

The extracted groundwater would be treated via lime precipitation and carbon adsorption. Flow rates to the treatment system would average 45 gpm, with a maximum anticipated flow rate of 60 gpm. The treatment system would be enclosed to prevent freezing during winter months. Treated effluent would be discharged to the local POTW, as specified for Alternative SC-2A.

Residuals generated from the groundwater treatment system include spent carbon (it is anticipated that two 2,200-pound units would be employed in series), and approximately 11.25 tons per year of hydroxide/carbonate sludge. Treatability studies would be required for verification of these residuals amounts. It is anticipated that the sludge will pass the Toxicity Characteristic Leaching Procedure (TCLP) tests; however, dewatered sludge would have to be analyzed to verify this, in accordance with the Resource Conservation and Recovery Act (RCRA). Sludge would be disposed of off-site in accordance with state and federal regulations. Spent carbon would be regenerated off-site.

Treated water would meet the standards for discharge to the local POTW, as described for Alternative SC-2A. Long-term monitoring of on-site groundwater would continue for an estimated 30 years, as for Alternative SC-2A, with the same provisions for extended monitoring or remedial actions, as necessary. As with Alternative SC-2A, institutional controls such as fencing and deed restrictions, would be necessary. Monitoring of

groundwater levels within the landfill would be required to ensure that the dewatering system was maintaining water levels beneath the waste material.

Estimated time for design and construction: 1 year Estimated period for operation: 30 years Estimated capital cost: \$13,084,000 Estimated operation and maintenance cost (net present worth): \$10,916,337 Estimated total cost (net present worth): \$24,000,000

<u>Alternative SC-4D</u> – <u>Sediment and Landfill Consolidation, Hot Spot Thermal Treatment</u> On-site, Landfill Capping, and Potential On-site Construction Dewatering, Treatment, and <u>Disposal</u>

Under this alternative, excavation and consolidation of sediments and landfill debris predicted to be below the water table would be conducted in the same manner as for Alternative SC-2A. The volumes of sediment and landfill material excavated and consolidated would be 9,600 yd³ and 53,500 yd³, respectively. Details on consolidating, regrading, and capping of the existing landfill as well as environmental monitoring and placement of institutional controls would be the same as for Alternative SC-2A. Groundwater collected during construction dewatering would be treated and discharged to the local POTW as with Alternative SC-2A. The same type and amount of treatment residuals would be produced and these would be disposed of off-site as described for Alternative SC-2A. Treatment goals and ARARs are expected to be met as with Alternative SC-2A, are anticipated.

The only significant difference in the activities posed in Alternative SC-4D versus Alternative SC-2A is the thermal treatment of hot spot soils and the placement of treated residuals back into the landfill. The hot spot soils to be treated include several areas in the drum disposal area which, after drum and tank removal operations, were found to contain high concentrations of contaminants of concern, most notably PAHs. Thermal treatment has been proposed for these soils to reduce the overall toxicities and quantities of LF-5 contaminants.

For treatment, the Low Temperature Thermal Treatment system (LT_{\bullet}^{3}) or its equivalent would be used. As part of the LT³ process, during soil excavation, field screening would be conducted to determine whether elevated PAH levels remain. Additionally, periodic TCLP analyses of the contaminated soil would be performed to ensure that RCRA LDRs would be met. It is possible that by the time remediation is initiated, the final rule for contaminated soils will become final. In this instance, thermal treatment would be the only LDR compliance necessary. Otherwise, a treatability variance from EPA may be required such that existing LDR treatment standards can be satisfied. Currently, treatment goals are based on current hot spot data and a projected removal efficiency of 95% for the LT³ system. Treatability studies may be required if a more accurate removal efficiency is required. If LF-5 receives a CAMU designation (see Sections IV, IX, and X), LDRs would not apply to this alternative.

Air monitoring would be required throughout hot spot soils excavation and treatment activities, as would institutional controls for minimization of short-term human health risks posed during excavation. Following treatment, TCLP soil analyses would be conducted on the residuals to ensure that metals have not been concentrated or their solubilities changed such that TCLP criteria are exceeded. If TCLP criteria are exceeded, pozzalonic stabilization of residuals will be performed prior to landfilling in order to reduce contaminant leachability (mobility).

Estimated time for design and construction: 2 years Estimated period for operation: 30 years Estimated capital cost: \$23,526,400 Estimated operation and maintenance cost (net present worth): \$6,605,687 Estimated total cost (net present worth): \$30,132,000

<u>Alternative SC-5A</u> — Sediment and Landfill Waste On-site RCRA Landfilling and Potential On-site Construction Dewatering and Disposal

In this alternative, all of the landfilled solid waste would be excavated and placed into a secure RCRA Subtitle C landfill on-site. Sediment excavation activities, on-site treatment

Similar to Alternatives SC-2A and SC-4D, groundwater extracted during construction dewatering would be treated on-site with a mobile treatment plant. In this alternative, the mass of contaminants treated would be greater than for Alternatives SC-2A and SC-4D since more extensive dewatering would be conducted. Ion-exchange salt solution and iron sludge from the mobile treatment plant would be disposed of off-site. Activated carbon used in the groundwater treatment plant (GWTP) would be transported off-site for regeneration. No residuals associated with soil handling and capping activities are expected to be produced. It was assumed that 0.5% of the landfill material would require off-site treatment to comply with ARARs; all other waste materials would be incorporated into the RCRA Subtitle C landfill.

Risks to human and ecological receptors via exposure to the waste materials, sediment, and surface soils would be minimized under this alternative. Containment of waste materials in the lined facility and collection of leachate for off-site treatment would eliminate potential contributions to groundwater that would exist for all other alternatives. This alternative may help achieve groundwater ARARs more quickly than Alternatives SC-1, SC-2A, SC-3A, and SC-4D because of the complete isolation of source contaminants and a reduction in the volume of contaminated groundwater present at the site that would be effected during construction dewatering activities.

As in the previous capping alternatives (SC-2A, SC-3A, and SC-4D), indirect treatment of the landfilled material would occur through natural biotransformation and desorption processes within the landfill. These processes may reduce the toxicity of the waste materials. In contrast to the previous capping alternatives, however, contaminants leached from soil and debris by water infiltrating the cap would be collected and treated off-site, thereby reducing the TMV of contaminated leachate.

Predicted air emissions from the landfill are expected to be less than EPA's proposed action level of 150 mg/year (above which active control of emissions is required), but air monitoring would be conducted to ensure compliance with federal and state requirements for hazardous and toxic air pollutants.

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of groundwater for construction dewatering, and environmental monitoring would be performed as described for Alternative SC-2A.

The facility would be designed to hold, at a minimum, the 251,000 yd³ of solid waste estimated to be landfilled. In addition, the facility should have the capacity to hold an estimated 70,000 yd³ of soil from below the existing waste deposits, and an estimated 19,000 yd³ of thickened sediments, plus an allowance of 17,000 yd³ for intermediate cover soil. The new landfill would be constructed to RCRA Subtitle C standards. It would have a double-composite bottom liner system, providing for leachate collection and leak detection. A perimeter containment berm, constructed of selected earthen materials, would define the lateral limits of the lined facility. On completion of filling, the landfill would be capped with a multilayered composite final cover system, such as that described for Alternative SC-2A. The maximum elevation of the new landfill would be 140 (±) feet MSL, based on a contained volume of about 390,000 yd³ (including 150,000 yd³ of excavated material). This elevation would be approximately 40 feet above the maximum elevation of the present site. To achieve that height, the sides of the landfill would rise at a slope not exceeding 3:1 (horizontal:vertical) to about elevation 130. Above elevation 130, top slopes would be at a minimum of 20:1 (5%). Construction of the RCRA Subtitle C landfill, including dewatering, excavation, stockpiling filling, grading, liner and leachate collection systems, waste placement and compaction, and composite cap construction, would be expected to require approximately 2 years.

Leachate generated from the landfill would be collected in a wet well and would be pumped into an aboveground storage system. Off-site treatment and disposal of leachate will be performed, as required. Eventually the leachate could be processed through a groundwater treatment plant constructed on the base. Leachate generation has been estimated at between 1,400 and 2,100 gallons per day (gpd) based on a preliminary evaluation of the proposed landfill conditions. It has been assumed that the leachate would be treated off-base for the first 5 years of operation and at a plant constructed on the base after that time.

Monitoring of the volume of leachate generated from the bottom collection system of the landfill would evaluate the effectiveness of the inner geomembrane liner. Groundwater quality monitoring around the landfill for conventional leachate parameters would be used to evaluate the entire landfill's containment effectiveness. Periodic sampling and analysis of groundwater around LF-5 for conventional leachate parameters would be conducted as part of the long-term groundwater monitoring program. This program would evaluate the effectiveness of the RCRA cell in containing site contaminants.

Coordination and consultation with NHDES would be required for this alternative. Acceptance by the Waste Management Division would be expected. Coordination and consultation with the New Hampshire Wetlands Board would be expected because of activities in and around wetland areas. It is also expected that consultation with the Water Supply and Pollution Control Division of NHDES would be required concerning the effluent discharge from the GWTP. Consultation and coordination with the Air Resources Division of NHDES may also be required because of potential odor and particulate emissions from the excavation areas and stockpiled waste materials.

Estimated time for design and construction: 2 years Estimated period for operation: 30 years Estimated capital cost: \$28,813,600 Estimated operation and maintenance cost (net present worth): \$11,461,724 Estimated total cost (net present worth): \$40,275,000

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IX. SUMMARY OF THE COMPARATIVE ANALYSIS OF ALTERNATIVES

Section 121(b)(1) of CERCLA presents several factors that must be considered when assessing alternatives. Building on these specific statutory mandates, the NCP articulates nine evaluation criteria to be used in assessing the individual remedial alternatives.

A detailed analysis was performed on the alternatives using the nine evaluation criteria in order to select a site remedy. The following is a summary of the comparison of each alternative's strengths and weaknesses with respect to the nine evaluation criteria. These criteria are summarized as follows:

Threshold Criteria

The two threshold criteria described must be met in order for the alternatives to be eligible for selection in accordance with the NCP.

- 1. Overall protection of human health and the environment addresses whether or not a remedy provides adequate protection and describes how risks posed through each pathway are eliminated, reduced, or controlled through treatment, engineering controls, or institutional controls.
- 2. Compliance with ARARS addresses whether or not a remedy will meet all of the ARARs of other federal and state environmental laws and/or provide grounds for invoking a waiver.

Primary Balancing Criteria

The following five criteria are utilized to compare and evaluate the elements of one alternative to another that meet the threshold criteria.

3. Long-term effectiveness and permanence address the criteria that are utilized to assess alternatives for the long-term effectiveness and permanence they afford, along with the degree of certainty that they will prove successful.

- 4. Reduction of toxicity, mobility, or volume through treatment addresses the degree to which alternatives employ recycling or treatment that reduces toxicity, mobility, or volume, including how treatment is used to address the principal threats posed by the site.
- 5. Short-term effectiveness addresses the period of time needed to achieve protection and any adverse impacts on human health and the environment that may be posed during the construction and implementation period, until cleanup goals are achieved.
- 6. Implementability addresses the technical and administrative feasibility of a remedy, including the availability of materials and services needed to implement a particular option.
- 7. Cost includes estimated capital and operation and maintenance (O&M) costs, as well as present-worth costs.

Modifying Criteria

The modifying criteria are used on the final evaluation of remedial alternatives generally after public comments on the RI/FS and Proposed Plan are received.

- 8. State acceptance addresses the state's position and key concerns related to the preferred alternative and other alternatives, and the state's comments on ARARs or the proposed use of waivers.
- 9. Community acceptance addresses the public's general response to the alternatives described in the Proposed Plan and RI/FS report. Community acceptance of both the original and the revised Proposed Plans for LF-5 was evaluated based on written comments and verbal comments received in public meetings during the public comment period.

Detailed tabular assessments of each alternative according to the threshold and balancing criteria can be found in Tables 5.2-1 through 5.2-6 of the FS.

Following the detailed analysis of each individual alternative, a comparative analysis, focusing on the relative performance of each analysis against the threshold and balancing criteria, was conducted. This comparative analysis can be found in Table 15.

Summary of Detailed Alternatives Evaluation^a LF-5, Pease AFB, NH

Remedial Alternative	Short-Term Effectiveness Ranking	Long-Term Bffectiveness Training	Reduction in TMV Ranking	İmplementability Ranking	Protection of Ituman Health and Environment Ranking	Compliance with ARARs Ranking	Cost Analysis ^b (Sensitivity Analysis) ^c (in 5 1,000)
SC-1 No Action/Institutional Controls.	AB	C	C	V	С	BC	3,123
SC-2 Sediment and Landfill Consolidation, Landfill Capping, and On-Site Groundwater Treatment and Disposal for Construction Dewatering.	a	B	BC	AB	AB	AB	23,992 (22,687 to 25,779)
SC-3A Scdiment Consolidation, Landfill Capping, and On-Site Groundwater Treatment and Disposal to Dewater Landfill Waste.	AB	B	8	AB	AB	AB	24,000 (21,658 to 24,961)
SC-4D Sediment and Landfill Consolidation, Hot Spot Soil Thermal Treatment On-Site, and On-Site Groundwater Treatment and Disposal for Construction Dewatering.	B	B	AB	a	AB	AB	30,132 (29,315 to 34,266)
SC-5A Scdiment and Landfill Waste On-Site RCRA Landfilling and Disposal for Construction Dewatering.	В	AB	В	В	V	V	40,275 (36,629 to 47,601)

a. The ranking system is defined as follows:

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A. The alternative meets the intent of the criterion.
B. The alternative partially meets the intent of the criterion.
C. The alternative does not meet the intent of the criterion.
AB. The alternative was ranked between A and B.
BC. The alternative was ranked between B and C.

b. Estimated costs represent the 30-year present worth cost.
 c. The sensitivity analysis costs represent the upper and lower limits of the 50% confidence interval.

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The following subsection presents the nine criteria, including the two modifying criteria not discussed in the FS, a brief narrative summary of the alternatives, and the strengths and weaknesses according to the detailed and comparative analysis.

A. Overall Protection of Human Health and the Environment

In the long term, Alternative SC-1 would minimize the exposure of humans and large animals to landfill soil, solid wastes, and surrounding sediment by restricting site access and development. However, site worker and small animal exposure would not be mitigated. In addition, contaminant leaching to groundwater would continue, thereby, allowing human exposure via potential groundwater use as well as through recreational uses of drainage channels to which a portion of groundwater and overland flows discharge. The continued leaching of contaminants would also affect wetlands habitats at LF-5.

Alternatives SC-2A, SC-3A, SC-4D, and SC-5A would achieve overall protection of human and ecological receptors from contaminated soils and sediments. These four alternatives would also contribute to attainment of overall Zone 1 groundwater and surface water objectives. For each of the four alternatives, protection of human and ecological receptors from surface water contaminants is expected over the long term, due to elimination of leachate and contaminated sediments as sources. Alternative SC-5A would further reduce the potential for contaminant migration to groundwater and surface water over that of the other alternatives by encasing all landfill wastes in a RCRA cell. Over the short term, groundwater use restrictions would be necessary to mitigate risks associated with groundwater use in the early stages of remediation.

B. Compliance with ARARs

Complete ARAR compliance would not be attained for Alternative SC-1 due to the lack of remediation planned for that alternative. Of the three types of ARARs

(location-specific, action-specific, and contaminant-specific), location-specific ARARs are the only ARARs for which compliance would be attained.

Alternatives SC-2A, SC-3A, SC-4D, and SC-5A would all be expected to achieve compliance with location- and action-specific ARARs. For contaminant-specific ARARs, all four alternatives would meet soil, sediment, and air ARARs.

C. Long-Term Effectiveness and Permanence

The deed restrictions and site access restrictions in Alternative SC-1 would reduce, but would not prevent, human contact with contaminated soils, sediments, surface water, and groundwater. Exposures to ecological receptors would not be mitigated. In addition, no reduction in contaminant TMV would be achieved. Therefore, continued human and ecological receptor exposure is expected over the long term.

For Alternatives SC-2A, SC-3A, SC-4D, and SC-5A, significant risk reduction is achieved by eliminating dermal and ingestion exposure routes (both human and ecological receptors) to contamination in site soils and sediments from LF-2, LF-4, and LF-5. For all four alternatives, it is expected that long-term reliability would be enhanced via periodic inspections, and management and monitoring for a period of 30 years (this time-frame is typically chosen for costing purposes). For Alternative SC-3A, it is assumed that groundwater would require treatment for a period of 30 years to maintain long-term effectiveness.

Additionally, pursuant to the requirements of CERCLA 120(h)(3)(B)(ii), should any additional remedial actions be required (including continued monitoring) either during or subsequent to the 30-year time period, the Air Force will be responsible for implementation of these actions, regardless of when the need arises. This ensured the long-term effectiveness of Alternatives SC-2A, SC-3A, SC-4D, and SC-5A subsequent to the 30-year monitoring and treatment periods described.

There exists a potential for future receptor exposures to site contaminants due to failure of the containment strategy-cap failure for Alternatives SC-2A, -SC-3A, SC-4D, and SC-5A. Each source control alternative would contribute to attainment of overall Zone 1 objectives for groundwater and surface water.

D. Reduction of Toxicity, Mobility, or Volume Through Treatment

Alternative SC-1 would not reduce the TMV of contaminants through treatment because the alternative does not provide for treatment.

Each of the remaining alternatives, Alternatives SC-2A, SC-3A, SC-4D, and SC-5A would provide for some degree of reduction in TMV, but would not significantly reduce TMV as a principal element of the remedy. All four alternatives would reduce TMV for groundwater currently in contact with solid waste. This would serve to reduce the mobility of soil contaminants in LF-2, LF-4, and LF-5. In the case of Alternative SC-5A, which provides for on-site RCRA landfilling of contaminated soils and sediments, reduction in the mobility of soil contaminants would be significantly increased over the other three alternatives. For Alternative SC-4D, reduction of the TMV of hot spot soils via thermal treatment (LT^3) would be achieved.

All four alternatives (SC-2A, SC-3A, SC-4D, and SC-5A) involve on-site groundwater treatment, which constitutes irreversible treatment. All four alternatives will produce groundwater treatment residuals (either concentrated ion salt solution, iron sludge and spent carbon, or carbonate and metal hydroxide sludge and spent carbon). In each case, off-site disposal/regeneration is expected. Thermal treatment residuals (Alternative SC-4D) would be tested for TCLP criteria and to determine the percent contaminant destruction achieved prior to placement back in the excavation.

E. Short-Term Effectiveness

Implementation of Alternative SC-1 would not be expected to have significant impacts on the community. In addition, impacts to workers would not be expected, and use of personal protective equipment (PPE) would minimize potential impacts during fence and wall installation and water sampling activities. Minor environmental impacts would be possible during implementation, and would be mitigated via use of erosion control measures. The total time for implementation of Alternative SC-1 is estimated to be 2 months.

Each of the four remaining alternatives (SC-2A, SC-3A, SC-4D, and SC-5A) would result in potential community and worker exposure to emissions generated during remedial activities (landfill excavation — Alternatives SC-2A, SC-4D, SC-5A; thermal treatment — Alternative SC-4D; groundwater treatment — Alternative SC-3A). These impacts would be minimized using engineering controls and site-specific health and safety procedures. Sediment excavation and landfill dewatering during implementation of Alternatives SC-2A, SC-4D, and SC-5D could impact wetlands environments at LF-5. Long-term groundwater extraction during implementation of Alternative SC-3A could result in even greater impacts. Landfill capping could compound the effect by reducing groundwater recharge in the area (Alternatives SC-2A, SC-3A, and SC-4D). Installation of a RCRA landfill (Alternative SC-5A) could further exacerbate the problem. In all cases, wetlands mitigation may be performed as part of remedial activities.

F. Implementability

Alternative SC-1, with its minimal construction activities, is easily constructed and is not hindered by site conditions. Monitoring and maintenance activities would be easily performed. Composite barrier cap construction, as planned for Alternatives SC-2A, SC-3A, and SC-4D, is a proven and well-known technology. Site conditions are not expected to inhibit construction. Composite-barrier caps are considered reliable engineering controls. Cap construction would have to be limited to warmer months, and modeling would be required to better predict the post-capping water table elevation. More comprehensive modelling and pilot-scale treatability studies would likely be required for Alternative SC-3A due to the expected long-term groundwater pumping and on-site treatment planned. Thermal treatment (Alternative SC-4D) is a proven and well-known technology and should not be adversely impacted by site conditions. However, there would be some difficulties associated with materials handling and low throughput rates due to potentially high soil moisture content. Construction of a RCRA landfill (Alternative SC-5A) is a proven and well-known technology. However, site conditions, such as bedrock and water table elevation, actual volume of wastes to be landfilled, and the necessity to import construction fill material could hinder construction. As with Alternatives SC-2A and SC-4D, groundwater treatment for construction dewatering is a well known and reliable technology that is not difficult to implement.

All five alternatives (SC-1, SC-2A, SC-3A, SC-4D, and SC-5A) would potentially require acquisition of permits/approvals for implementation. In addition, all alternatives would require some degree of monitoring and maintenance activities. In each case, the activities are easily performed.

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G. Cost

The estimated present worth value of each alternative and the options are as follows:

	Alternative	Capital Costs	O&M	Present Worth
SC-1	No action, institutional controls.	\$174,000	\$2,948,31 5	\$3,123,000
SC-2A	Sediment/landfill consolidation, capping, on-site groundwater treatment and disposal for dewatering.	\$17,362,700	\$ 6,629,721	\$23,992,000
SC-3A	Sediment consolidation, landfill capping, on-site groundwater treatment and disposal to lower water table below solid waste.	\$13,084,000	\$ 10,916,337	\$24,000 ,000
SC-4D	Sediment/landfill consolidation, hot spot thermal treatment, landfill capping, on-site groundwater treatment and disposal for construction dewatering.	\$23,526,400	\$ 6,605,687	\$30,132,000

	Alternative	Capital Costs	0&M-	Present Worth
SC-5D	Sediment/landfill waste on-site RCRA landfilling, on-site groundwater treatment and disposal for construction.	\$28,813,600	\$11,461,724	\$40.275,000

H. State Acceptance

NHDES has been involved in the environmental activities at Pease AFB since the mid-1980s, as summarized in Section II of this document. The RI was performed as an Air Force lead, with state and EPA oversight, in accordance with the FFA. NHDES has reviewed this document and concurs with the selected remedy. A copy of the Declaration of Concurrence is attached as Appendix B.

I. Community Acceptance

The comments received during the public comment periods and the public hearings on both the original and revised LF-5 Proposed Plans are summarized in the attached document entitled "The Responsiveness Summary" (Appendix C). The selected remedy has been modified from that presented in the original Proposed Plan based on public comment, as described in Section X.

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X. THE SELECTED REMEDY

The selected remedy is comprehensive in that it provides for source control and reduction of exposure to site contaminants via containment, and it also contributes to attainment of overall Zone 1 objectives (to be presented at a later date in the Zone 1 FS) of migration control for surface water and groundwater.

The selected remedy, Alternative SC-2A, involves excavation and consolidation of sediments, which contain levels of contamination in excess of selected cleanup levels, on LF-5. Landfill debris from LF-5 that was predicted to be saturated after capping (as determined via MODFLOW modelling) would also be excavated and consolidated on LF-5. In addition, LF-2 and LF-4 soil and debris would be excavated and consolidated on LF-5 (see Sections IV and XII). However, since LF-2 and LF-4 are part of the Zone 1 operable unit, final decision under the Zone 1 ROD will be required prior to implementation of the proposed excavation and consolidation plan for LF-2 and LF-4. Following consolidation, the landfill would be covered with a composite-barrier type cap to prevent water infiltration. During construction, in order to facilitate excavation, groundwater would be collected and treated in a temporary on-site mobile system. Discharge of treated water to Flagstone Brook was specified in the original Proposed Plan. Based on public comment to the original Proposed Plan, this strategy was revised to specify discharge to the local POTW via the sanitary sewer.

A. Methodology for Cleanup Level Determination

Cleanup levels have been selected for each medium of concern at LF-5. Cleanup levels have been established for chemicals of concern identified in the risk assessment section of the LF-5 Draft Final RI Report and for contaminants detected at levels exceeding ARARs or risk-based concentrations.

The approach used to determine risk-based concentrations is consistent with the approach used to evaluate human health risk in the risk assessment section of the LF-5 Draft Final RI Report (F-500). This approach was originally presented in a protocols document

submitted to EPA Region I and NHDES. This document was subsequently amended and a revised version was resubmitted.

Risk-based concentrations were derived for the chemicals of concern in each medium, based on the most reasonable maximally exposed human receptor (current or future) for the medium. The chemicals of concern include those substances that were identified as chemicals of concern in the risk assessment section of the LF-5 Draft Final RI Report (F-500). In addition, risk-based concentrations were derived for a few chemicals that were not selected as chemicals of concern in the RA, but whose maximum reported concentration exceeded one or more ARAR.

Risk-based concentrations were derived for each noncarcinogenic chemical in a medium based on a goal of a hazard index of 1. For each carcinogenic chemical, the concentrations were derived based on a goal of 10^{-6} (1-in-1 million) lifetime cancer risk, with the following exceptions. Some chemicals, although categorized by EPA as carcinogens, are not considered to be carcinogenic through all exposure routes. For example, several metals, including cadmium, chromium (VI), and nickel, are not classified as carcinogens through the oral exposure route. Therefore, in deriving risk-based concentrations for a given medium, if a carcinogenic chemical was not considered to be carcinogenic through the applicable exposure routes, the risk-based concentration for the chemical was based on a hazard index of 1 (i.e., noncarcinogenic risk).

Cleanup levels were selected after comparing maximum contaminant concentrations detected for each contaminant of concern in each medium with appropriate chemical-specific ARARs, human health, and, if applicable, ecological risk-based concentrations.

In general, where ARARs were available and deemed appropriate, the ARARs were selected as cleanup levels. Where ARARs were not available, or if the basis on which the ARAR was established was not consistent with LF-5 exposure scenarios, a risk-based concentration was selected as the cleanup goal. When ARARs were selected as the cleanup

goal, a human health risk was calculated for the ARAR concentration. Cleanup levels were not established for chemicals detected at maximum concentrations-that were lower than appropriate ARARs or risk-based concentrations.

Cleanup levels for the various contaminated media at LF-5 are summarized in the subsections that follow.

B. Groundwater Cleanup Levels/Treatment Goals

The selected remedy for LF-5 does not address groundwater beneath and in the vicinity of LF-5. Contamination in groundwater will be addressed in the Zone 1 FS, Proposed Plan, and ROD. However, the LF-5 source control remedy would be expected to contribute to attainment of the Zone 1 objectives and cleanup goals via removal of contaminant sources and would facilitate the implementation of potential groundwater actions that will be evaluated during the Zone 1 RI/FS process. For the purposes of this ROD, the Zone 1 cleanup levels are to be considered (TBC) guidelines for treatment of groundwater extracted for construction dewatering purposes. Treatment requirements established in the state, federal, and local POTW pretreatment standards will serve as ARARs.

Table 16 presents ARARs, risk-based concentrations, maximum average detected concentrations in groundwater, and selected cleanup levels for contaminants detected in groundwater. The cleanup levels were calculated using the Zone 1 objectives for groundwater.

C. Landfill Soil and Solid Waste Cleanup Levels

Table 17 presents human health and ecological risk-based concentrations, maximum detected concentrations, and selected cleanup levels for contaminants detected in soils in the landfill, including the hot spots. Cleanup levels were established for 22 contaminants in the landfill (excluding hot spot soils) detected at concentrations exceeding either human health or ecological risk-based concentrations. The majority of cleanup goals were

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Zone 1 Cleanup Goal Selection — Groundwater LF-5, Pease AFB, NH

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					Health	Ilazard Cancentration (Hg/L)	On (HELL)	Concentration	Cleanup Goat
Compound	MCL.	MCLG	NHDPHS	RCRA ⁴	Advisory	Index	Risk	Total (us/1.)6	(ned.)
Organics								· · · · · · · · · · · · · · · · · · ·	1.19.4
Acetone			7.00E+02	4.00E+03		3.65E+03		4.6013+01	NA
Benzene	5.00E+00 •	0.00E+00	5.00E+00				1.47E+00	1.40E+01	5 00R+00
Bis(2-cthylhexyl) phthalate	4.00E+00 •	6.00E+00		3.00E+00			6.08E+00	1.10F.+01	6 00 8 + 00
n-Butylbenzene						NTV		2.00E+00	NIVA
sec Butylbenzene						1.46E-02	-	3 00F+00	NA
Chlorobenzene	1.00E+02	1.00E+02	1.00E+02	7.00E+02		1.46E+02		8 00F+01	AN NA
Chloroethane						NTV		TO THE TO T	NTVA
4 - Chloro - 3 - methytphenol						VIN	· · · · · · · · · · · · · · · · · · ·	1014001	NIVA
1,2 - Dichlorobenzene	6.0013+02	6.00E+02	6.00E+02		6.00F.+02	1.01E+03		3 2017 + 01	AN AN
1,4 - Dichlorobenzene	7.5013+01	7.5013+01	7.508+01		7.50E+01		1.7713+00	3.8012+01	
Dichlorodifluoromethane			1.00E+03	7.00E+03	1.00E+03	1.46E+03		2.30E+01	NA
1,1-Dichloroethane ^a			8.10E+01			1.83E+03		1.508+01	NA
1,2-Dichloroethane	5.00E+00	0.00E+00	5.00E+00	5.00E+00			4.68E01	2.20E+00	NA
cis-1,2-Dichloroethene	7.00E+01	7.00E+01	7.00E+01		7.00E+01	3.65E+02		2.208+01	NA
Dicthyl phthalate		5.00E+03 p		3.00E+04		2.92E+04		1.10E+01	NA
Dimethyl phthalate						3.65E+04		1.10E+01	AN
Di-n-butyl phthalate		3.00E+02 p		4.00E+03		3.65E+03		1.1013+01	NA
Bthyl ether						3.65E+03		4.00E+01	VN
Fluoranthene					-	1.46E+03		1.1013+01	NA
Isopropylbenzene						8.91E+01		2.00E+00	NA
2 - McInyinaphihalcne						1.24F.+01		1.108+01	VN
Naphthalene			2.00E+01		2.00E+01	1.24B+01	-	1.10F + 01	٧N
n - rropyloenzene						NIV		3.0013+00	NT'VA
Tetrachiorocinene	- 00+300-5	0.001	5.00E+00	7.00E-01			1.61E+00	5.60E+01	1 5.00E+00
1.2.4-Trimethylhenzene		0.000	00+300.C			1 001 1 01	3.04E+00	4.60E+01	5.00E+00
Vinyl chloride	2.00E+00 •	0.00E+00	2 00F+00			1.700.1 11	CO BACC	4.WE+W	AN C
Xylencs (total)	1.00E+04	1.00E+04	1.00E+04	7.00E+04	1.00E+04	301E+03	70 114-7	5 70R 4 00	NA NA
Inorganics									VN
	5.00B+01 •		5.00E+01		5.00E+01		4.87E-02	3.53E+02	5.00E+01
Boron			6.20B+02		6.20E+02	3.298.+03		2.69E+02	NA
Cobalt						NIV		1.2713+02	VI.N
Iron						VIV		1.73E+05	NIVA
Lead	1.50E+01 •	0.00E+00	1.50E+01			1.06E+01		6.70E+01	1.50E+01
Manganese						3.65E+03 •		4.78E+03	3.65E+03
Nickel	1.00E+02	1.00E+02		7.00B+02	1.00E+02	7.30E+02		4.33E+02	1.00E + 02
Selenium	5.00E+01	5.00E+01	5.00E+01			1.83R+02		5.0013+00	AN

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1.

Zone 1 Cleanup Goal Selection — Groundwater LF-5, Pease AFB, NH

		Pote	tential ARARs (ug/L)	g(L)		Risk-Based	Based	Maximum	
· · · · ·					Lifetime	Concentration (µg/L)	оп (µg/L) ^f	Detected	Cleanup
					Health	Hazard	Cancer	Concentration	Goal
Compound	MCI,	MCLG	NIDPHS	RCRA ⁴	Advisory ^e	Index	Risk	Total (uell.)8	(Ton)
Inorganics (continued)									1-1-1-1
Silicon						VIN		9 57F + 04	NTVA
Silver			5.00E+01	5.00E+01	1.00E+02	1.10E+02		3.00E+01	NA
Thallium	2.008+00	5.00E-01	5.00E-01			2.56E+00		1.00E+01	2 00F + 00
								1	N 1 100-7

(a) MCL = Maximum Contaminant Level, May 1992.

(b) MCLO = Maximum Contaminant Level Goal, May 1992.

(c) NHDPHS = New Hampshire Department of Public Health Services, June 5, 1992.

(d) RCRA = RCRA Corrective Action Levels (40 CFR 264.521 (a) (2)(i-iv) Appendix A)

(e) Lifetime Health Advisory, April 1992.

(f) Unless otherwise indicated, risk - based concentrations are based on a hazard index of one for noncarcinogens and a 10⁻⁶ cancer risk for carcinogens.

Calculations are based on the exposure scenario and assumptions presented in Subsection 2.3 and F-500.

(g) Maximum detected concentrations were taken from the risk assessment section of the LF-5 Draft Final RI Report (F-500).

(h) Although categorized as a carcinogen, in the absence of slope factors the risk - based concentration was based on noncarcinogenic risk.

(i) Although categorized as a carcinogen, the chemical is not considered carcinogenic through the applicable exposure routes.

• = Value used to select cleanup goal.

p = Proposed standard

NTV = A risk - based concentration was not calculated due to the unavailability of the applicable toxicity value.

NTVA = No applicable toxicity value or ARAR.

NA = ARAR or risk - based concentration exceeds maximum detected concentration.

= Parameter list is based on contaminants in groundwater in vicinity of Landtill 5.

Site-Specific Cleanup Goal Selection Landfill Soil and Solid Waste LF-5, Pease AFB, NH

	Risk-Based Concentration ^a		Ecological	Maximum	
	(mf	z/kg)	Risk-Based	Detected	Cleanup
	Hazard	Cancer	Concentrations	Concentration	Goal
Main Soils	Index	Risk	(mg/kg) ^b	(mg/kg)°	(mg/kg)
Organics					
Aroclor-1242		1.36E+00	1.63E-03 •	5.30E+00	1.63E-03
Arocior-1248	1	1.36E+00	1.63E-03 *	3.40E+00	1.63E-03
Bis(2-ethylhexyl)phthalate		7.93E+01	4.00E-01 *	1.10E+00	4.00E-01
4,4'-DDD	1	4.36E+01	2.76E-01	2.30E-01	NA
4.4'-DDE	1	3.08E+01	3.40E-02 *	7.10E-01	3.40E-02
4.4'-DDT		3.08E+01	1.30E-03 *	3.40E+00	1.30E-03
Dibenzofuran	1.67E+03		NTV	3.00E+01	NIVA
1,4-Dichlorobenzene	1	4.63E+01	2.20E+03	1.10E-01	NA
Dieldrin	!	6.94E-02	1.38E-04 •	2.40E-01	1.38E-04
Di-n-butyl phthalate	3.74E+05		7.34E+02	8.40E-02	NA
2-Methylnaph thalene	1.59E+03		2.17E+01	8.90E+00	NA
Naphthalene	1.59E+03		2.73E+02	3.40E+01	NA
PAHs					
Acenaphthene	1.87E+05		1.94E+02	5.20E+01	NA
Acenaphthylene	1.25E+04		1.26E+03	2.00E-01	NA
Anthracene	9.35E+05		2.96E+03	8.50E+01	NA
Benzo(a)anthracene		7.59E-01 *	2.50E+00	1.30E+02	7.59E-01
Benzo(b)fluoranthene		7.59E-01 *	7.89E+02	1.00E+02	7.59E-01
Benzo(k)fluoranthene		7.59E-01 *	1.01E+03	8.20E+01_	7.59E-01
Benzo(g,h.i)perviene	1.25E+04		1.05E+03	1.10E+02	NA
Benzo(a)pyrene		7.59E-01	7.00E-02 •	1.10E+02	7.00E-02
Chrysene		7.59E-01 •	1.48E+03	1.20E+02	7.59E-01
Dibenzo(a,h)anthracene		7.59E-01 *	1.26E+03	2.30E+01	7.59E-01
Fluoranthene	1.25E+05		2.78E+02	2.00E+02	NA
Fluorene	1.25E+05		1.39E+02	6.20E+01	NA
Indeno(1.2.3-cd)pyrene		7.59E-01 *	6.00E+02	8.70E+01	7.59E-01
Phenanthrene	1.25E+04		2.33E+00 •	2.40E+02	2.33E+00
Pyrene	9.35E+04		1.53E+02 *	2.10E+02	1.53E+02
Pentachlorophenol	<u>1</u>	925E+00	6.13E-02 *	9.40E-01	6.13E-02
Inorganics					
Arsenic		2.10E+01	5.08E-01 •	2.86E+01	5.08E-01
Cadmium ^d	1.70E+04		5.18E-02 *	1.19E+01	5.18E-02
Copper	4.85E+05		2.14E+00 *	2.15E+02	2.14E+00
Lead ^e	1.27E+04		6.50E-02 *	1.93E+02	6.50E-02
Manganese	1.31E+06		3.33E+04	1.08E+03	NA
Mercury	3.93E+03		2.00E-02 •	8.10E-01	2.00E-02
Zinc	2.62E+06		8.43E-02 •	2.59E+02	<u>8.43E-02</u>

(a) Unless otherwise indicated, risk-based concentrations are based on a hazard index of one for noncarcinogens and a 10⁻⁶ cancer risk for carcinogens. Calculations are based on the exposure scenario and assumptions presented in Subsection 2.3 in F-500.

(b) Ecological risk-based concentrations were developed based on the exposure scenarios and assumptions presented in Subsection 2.3 in E-429 (F-500).

(c) Maximum detected concentrations were taken from the risk assessment section of the LF-5 Draft Final RI Report (F-500).

(d) Although categorized as a carcinogen, the chemical is not considered to be carcinogenic through the applicable exposure routes. (e) Although categorized as a carcinogen, in the absence of slope factors the risk-based concentration was based on noncarcinogenic risk.

NA = Not applicable, risk-based concentrations exceed maximum detected concentration.

NTV = A risk-based concentration was not calculated because of the unavailability of the applicable toxicity value.

NTVA = No applicable toxicity value or ARAR.

* = Value used to select cleanup goal.

Site-Specific Cleanup Goal Selection -Landfill Soil and Solid Waste LF-5, Pease AFB, NH (Continued)

	Risk-Based C	Concentration ³	Ecological	Maximum	
			Risk-Based	Detected	Cleanup
Hot Spot Soils	Hazard	Cancer	Concentrations	Concentration	Goal
– Drum Removal Area	Index	Risk	(mg/kg) ^b	(mg/kg) ^c	(mg/kg)
Organics					1
aipha-Chlordane		8.49E+00	4.00E-01 *	1.70E+00	4.00E-01
gamma – Chlordane		8.49E+00	3.17E-03 *	1.70E+00	3.00E-03
4.4'-DDD		4.60E+01	2.77E-01 *	6.70E-01	2.77E-01
4.4'-DDE		3.25E+01	3.40E-02 *	2.60E-01	3.40E-02
4.4'-DDT		3.25E+01	1.00E-03 *	6.00E+00	1.00E-03
Dibenzofuran	1.70E+03			1.10E+02	NA
Dieldrin		7.07E-02	1.38E-04 *	1.50E+00	1.38E-04
Heptachlor		2.51E-01	9.79E-03 *	1.60E-01	9.79E-03
2-Methylnaphthalene	1.62E+03		2.17E+01 *	4.10E+01	2.17E+01
Naphthalene	1.62E+03 •		2.73E+02	6.40E+01	NA
PAHs					
Acenaphthene	2.18E+05 *		1.94E+02	1.90E+02	NA
Anthracene	1.09E+06 *	i	5.02E+03	2.20E+02	NA
Benzo(a)anthracene		8.86E-01 *	2.50E+00	8.90E+02	8.86E-01
Benzo(b)fluoranthene		8.86E-01 *	7.88E+02	6.10E+02	8.86E-01
Benzo(k)fluoranthene		8.86E-01 *	1.01E+03	3.00E+02	8.86E-01
Benzo(g,h,i)perylene	1.45E+04 *		1.05E+03	1.20E+02	NA
Benzo(a)pyrene		8.86E-01	7.00E-02 *	7.50E+02	7.00E-02
Chrysene		8.86E-01 •	1.48E+03	9.10E+02	8.86E-01
Dibenzo(a,h)anthracene		8.86E-01 *	1.26E+03	8.80E+01	8.86E-01
Fluoranthene	1.45E+05		2.79E+02 *	1.30E+03	2.79E+02
Fluorene	1.45E+05 *	•	1.39E+02	2.00E+02	NA
Indeno(1,2,3-cd)pyrene		8.86E-01 *	6.00E+02	1.90E+02	8.86E-01
Phenanthrene	1.45E+04		2.33E+00 *	1.20E+03	2.33E+00
Pvrene	1.09E+05		1.53E+02 *	1.40E+03	1.53E+02
Toluene	8.08E+04 *		1.33E+00	8.20E-02	NA
Inorganics					
Boron	2.97E+06		5.99E+00 *	1.89E+01	5.99E+00
Copper	1.22E+06		2.15E+00 *	1.30E+02	2.15E+00
Lead ^e	3.19E+04		6.53E-02 *	5.58E+01	6.53E-02
Mercury	9.89E+03		2.00E-02 *	3.40E-01	2.00E-02

(a) Unless otherwise indicated, risk-based concentrations are based on a hazard index of one for noncarcinogens and a 10^{-6} cancer risk for carcinogens. Calculations are based on the exposure scenario and assumptions presented in Subsection 2.3 in F-500.

 (b) Ecological risk-based concentrations were developed based on the exposure scenarios and assumptions presented in Subsection 2.3 in F-500.

(c) Maximum detected concentrations were taken from the risk assessment section of the LF-5 Draft Final RI Report (F-500).

(d) Although categorized as a carcinogen, the chemical is not considered to be carcinogenic through the applicable exposure routes.

(e) Although categorized as a carcinogen, in the absence of slope factors the risk-based concentration was based on noncarcinogenic risk.

NA = Not applicable, risk-based concentrations exceed maximum detected concentration.

* = Value used to select cleanup goal.

Site-Specific Cleanup Goal Selection Landfill Soil and Solid Waste LF-5, Pease AFB, NH (Continued)

	Risk-Based (Concentration ³	Ecological	Maximum	
			Risk-Based	Detected	Cleanup
Hot Spot Soils	Hazard	Cancer	Concentrations	Concentration	Goal
- Staged UST Location	Index	<u>Risk</u>	(mg/kg) ^b	(mg/kg) ^c	(mg/kg)
Organics					
Bis(2-ethylhexyl) phthalate		8.12E+01	NC	2.70E-01	NA
Di-n-butyl phthalate	4.01E+05		NC	5.20E-02	NA
PAHs					
Benzo(a)pyrene		9.35E-01	NC	6.60E-02	NA
Chrysene		9.35E-01	NC	4.90E-02	NA
Fluoranthene	1.54E+05		NC	6.00E-02	NA
Pyrene	1.15E+05		NC	8.40E-02	NA
Inorganics					
Arsenic		1.02E+02	NC	3.51E+01	NA
Barium	4.47E+06		NC	8.20E+03	NA
Boron	5.75E+06		NC	4.22E+02	NA
Cadmium	8.30E+04		NC	2.50E+00	NA
Chromium (III) ^e	6.39E+07		NC	5.40E+01	NA
Chromium (VI) ^a	3.19E+05		NC	5.40E+01	NA
Lead ^g	6.17E+04		NC	2.14E+02	NA
	1.28E+07		NC	1.69E+03	NA .

(a) Cancer risk is calculated for carcinogens; a hazard index is calculated for noncarcinogens. Calculations are based on the exposure scenario and assumptions presented in Subsection 2.3 in F-500.

(b) Ecological risk-based concentrations were developed based on the exposure scenarios and assumptions presented in Subsection 2.3 in F-500.

(c) Maximum detected concentrations were taken from the risk assessment section of the LF-5 Draft Final RI Report (F-500). The maximum represents the highest analytical result of duplicate samples from one sampling location.

(d) Although categorized as a carcinogen, the chemical is not considered to be carcinogenic through the applicable exposure routes.

(e) Chromium is assumed to be present totally as chromium (III).

(f) Chromium is assumed to be present totally as chromium (VI).

(g) Although categorized as a carcinogen, in the absence of slope factors, the risk-based concentration was based on noncarcinogenic risk.

NA = Not applicable, risk-based concentrations exceed maximum detected concentrations.

* = Value used to select cleanup goal.

NC = As discussed in the risk assessment section of the LF-5 Draft Final RI Report (F-500), ecological risk-based concentrations were not evaluated for the staged UST hot spot. ecological risk-based concentrations. Ecological risk-based concentrations were developed as described in Subsection 2.3 of the LF-5 FS. Cleanup goals were also established for contaminants in the drum removal area hot spot soils. Again, most of the cleanup goals were ecological risk-based concentrations. Drum removal area hot spot contaminants for which cleanup levels were established include seven pesticides, one SVOC, 10 PAHs, and four metals. Cleanup levels were not established for any contaminants in the staged UST location hot spot.

D. Sediment Cleanup Levels

Table 18 presents human health risk-based concentrations, maximum concentrations detected in sediment, and TBC criteria that were used in determining ecological risks. These TBC criteria are the NOAA biological effects levels (ER-Ls) established by Technical Memorandum NOS OMA 52, March 1990. While NOAA sediment guidelines are not enforceable and, consequently, are not considered ARARs, they appear to be appropriate toxicity benchmark values and were used in deriving ecological risk-based cleanup levels. In all cases, these TBCs were selected as sediment cleanup goals. As a result, cleanup goals were established for five pesticides, seven PAHs, and five metals in the Railway Ditch, and for three pesticides and two metals in Flagstone Brook. As described in Subsection 2.1 of the LF-5 Draft Final FS, remediation of sediment in Flagstone Brook will be an objective of the Zone 1 remedy. It should be noted that DDE, DDD, and DDT were detected in most sediment samples collected at Pease AFB and may be indicative of background levels. Human health risk-based concentrations were typically orders of magnitude greater than the NOAA criteria and were not used to select cleanup goals. As shown in Table 2.4-2 of the FS, there are no human health risks associated with these ecologically based TBC sediment criteria.

Zone 1 Cleanup Goal Selection for the Railway Ditch and Flagstone Brook — Sediment LF-5, Pease AFB, NH

		Risk-Based C		Macamum	<u> </u>
	TBC	(mg/k		Detected	Cleanup
	Criteria	Hazard	Cancer .	Concentration	Goal
Railway Ditch	(mg/kg)	Index	Risk	(mg/kg) ^c	(mg/kg)
Organics			· · · · · · · · · · · · · · · · · · ·		
Acetone		3.99E+05		2.00E-01	NA
Benzoic Acid	- +	1.00E+07	6.65E+02	2.70E+01	NA
Bis(2-ethvlhexyl) phthalate			0.03E+02	4.90E-01	NA
2-Butanone	5.00E-04 *	1.99E+05	(225) ()	2.00E-01	NA
alpha-Chlordane	5.00E-04 - 5.00E-04 -		6.83E+01	1.10E-01	5.00E-04
gamma-Chlordane		·i	6.83E+01	7.80E-02	5.00E-04
4.4'-DDD	2.00E-03 * 2.00E-03 *		3.70E+02	4.90E+00	2.00E-03
4.4'-DDE	1.00E-03 *		2.61E + 02	2.80E-01	2.00E-03
4.4'-DDT	1.00E-03		2.61E+02 3.88E+02	1.00E+01	1.00E-03
1,4-Dichlorobenzene	• • • • • • • • • • • • • • • • • • • •	3.99E+04	3.886 +02	7.60E-01	NA
1.2-Dichloroethene (total) ^d PAHs		3.996 + 04		4.50E-01	NA
	1.50E-01 •	1.96E+06	:	6.70E-01	1 SOF 01
Acenaphthene	1.506-01	1.31E+05		7.90E-01	1.50E-01
Acenaphthylene Benzo(a)anthracene	2.30E-01 *	1.516+05	6.64E+00	5.90E-01	NA 2.30E-01
Benzo(b)fluoranthene	01-01-01		6.64E+00	7.60E-01	2.30E=01 NA
Benzo(k)fluoranthene			6.64E+00	7.60E-01	NA
Benzo(g,h,i)perviene		1.31E+05	0.042 +00	2.60E-01	NA
Benzo(a)pyrene	4.00E-01	1.512+05	6.64E+00	3.60E-01	NA
Chrysene	4.00E-01		6.64E+00	5.80E-01	4.00E-01
Dibenzo(a,h)anthracene	6.00E-02 •		6.64E+00	9.00E-02	6.00E-01
Fluoranthene	6.00E-01 *	1.31E+06	0.042100	1.40E+00	6.00E-01
Indeno(1,2,3-cd)pyrene	0.001	1.512+00	6.64E+00	2.50E-01	NA
Phenanthrene	2.25E-01 •	1.31E+05		1.40E+00	2.25E-01
Pyrene	3.50E-01 •	9.81E+05	· · · · · · · · · · · · · · · · · · ·	9.40E-01	3.50E-01
Total PAHs ^e	4.00E+00 *	1.31E+05	6.64E+00	8.89E+00 T	4.00E+00
Inorganics					
Antimony	2.00E+00 *	6.54E+04		3.50E+01	2.00E+00
Arsenic	3.30E+01 *		2.18E+02	8.00E+02	3.30E+01
Boron		1.47E+07		7.45E+01	NA
Cobait		NIV		5.74E+01	NTVA
Iron		NTV		1.95E+05	NTVA
Lead ^g	3.50E+01 *	1.58E+05		6.21E+02	3.50E+01
Manganese		1.64E+07		8.43E+03	NA
Nickel ^a	3.00E+01 *	3.27E+06		7.92E+01	3.00E+01
Zinc	1.20E+02 *	3.27E+07		4.09E+02	1.20E+02
Flagstone Brook					-
Organics					
4,4'-DDD	2.00E-03 *		1.23E+02	2.10E-01	2.00E-03
4,4'-DDE	2.00E-03 *		1.87E+03	1.20E-01	2.00E-03
4,4'-DDT	1.00E-03 *		1.87E+03	3.50E-02	1.00E-03
Total PAHs ^e	4.00E+00 *	4.36E+04	2.21E+00	$1.11E + 00^{T}$	NA
Inorganics			· - · · · · · · · · · - ·		
Antimony	2.00E+00 *	2.18E+04	T	2.50E+00	2.00E+00
Boron		4.91E+06		5.20E+00	NA
Cadmium ⁿ	5.00E+00	7.09E+04		1.20E+00	NA
Lead ^g	3.50E+01 *	5.27E+04		6.31E+01	3.50E+01
Selenium		2.73E+05		9.50E-01	NA
Thallium		3.82E+03		1.92E+01	NA

(a) NOAA Biological Effect Levels (ER-L), NOAA Technical Memorandum, NOS OMA 52, March 1990.

(b) Unless otherwise indicated, risk-based concentrations are based on a hazard index of one for noncarcinogens and a 10⁻⁶

cancer risk for carcinogens. Calculations are based on the exposure scenarios and assumptions presented in Subsection 2.3 in F-500.

(c) Maximum detected concentrations were taken from the risk assessment section of the LF-5 Draft Final RI Report (F-500).

(d) The risk number for 1,2-dichloroethene is based on the RfD of the cis isomer.

(e) Risk numbers for total PAHs are based on the RfD for naphthalene and the slope factor for benzo(a)pyrene.

(f) Maximum detected total PAH concentration is a sum of individual maximum detected PAH concentrations including naphthalene which by itself is not a chemical of concern.

(g) Although categorized as a carcinogen, in the absence of a slope factor, the risk-based concentration was based on noncarcinogenic risk. (h) Although categorized as a carcinogen the chemical is not considered to be carcinogenic through the applicable exposure routes.

NA - ARAR or risk-based concentration exceeds maximum detected concentration.

NTV - A risk-based concentration was not calculated due to the unavailability of the applicable toxicity value.

NTVA - No applicable toxicity value or ARAR.

= Value used to select cleanup goal.

E. Surface Water Cleanup Levels

Table 19 presents ecological risk-based ARARs, human health risk-based concentrations, maximum detected concentrations, and cleanup levels for contaminants detected in surface water in the Railway Ditch. The cleanup goals were derived to satisfy the Zone 1 Railway Ditch RAOs. As discussed previously, the LF-5 source control remedy would be expected to contribute to attainment of the Zone 1 objectives and cleanup goals. All cleanup goals were based on New Hampshire surface water standards that are protective of aquatic life. Chronic criteria were used to evaluate ecological risks in the baseline RA and therefore, are selected as the applicable ARARs for Zone 1. Cleanup levels were established for one pesticide, 10 metals in the Railway Ditch, and one pesticide and four metals in Flagstone Brook. Human health risks associated with Zone 1 ARAR concentrations selected as cleanup goals are presented in Table 2.4-7 of the LF-5 Draft Final FS. As shown in the table, cancer risks greater than 10^{-6} exist due to the use of ARARs as cleanup goals for DDT, 1,4-dichlorobenzene, and TCE. The maximum residual cancer risk was for TCE (2.15 x 10^{-5}). No excess noncancer human health risks would result.

F. Description of Remedial Components

The chosen LF-5 remedy, whose main remedial goal is source control, will involve the following key components:

- Excavation and consolidation of Railway Ditch sediments that contain contaminants at concentrations exceeding site-specific cleanup goals. A mobile laboratory will be on-site to confirm the removal of contaminated material. The excavated material will be dewatered and bulked, if necessary, and consolidated on LF-5.
- Landfill debris that would still be in contact with groundwater after capping will be excavated and consolidated on dry locations on the landfill prior to capping. The excavation will be backfilled with clean fill to a level at least 2 feet above the natural groundwater table after capping and excavated waste will be placed above the clean fill.

Zone 1 Cleanup Goal Selection for the Railway Ditch — Surface Water LF-5, Pease AFB, NH

[ARAF	ls (μg/L)	Risk-I	Based		
		(Concentrati	on $(\mu g/L)^c$	Maximum	
	1		Based on	Based on	Detected	Cleanup
			Hazard	Cancer	Concentration	Goal
Railway Ditch	NHª	FAWQC [®]	Index	Risk	(µg/L)	(<u>µg/L)</u>
Organics						
Chlorobenzene	5.00E+01		6.12E-04		2.00E+00	NA
4,4'-DDD				1.58E+01	3.10E-01	NA
4,4'-DDT	1.00E-03 *			1.12E+01	1.40E+00	1.00E-03
1,4-Dichlorobenzene	7.63E+02 d,e			1.95E+02	2.00E+00	NA
1,1-Dichloroethanet			1.05E+06	1	2.00E+00	NA
cis-1.2-Dichloroethene	1.16E+04 d.g	1.16E+04 ds	6.01E+05		2.00E+00	NA
Trichloroethene	2.19E+04 ^d			1.02E+03	9.00E+00	NA
Inorganics						
Aluminum	8.70E+01 *		NC		3.72E+04	8.70E+01
Ammonia	2.20E+03 h	2.20E+03 b	NC		2.70E-01	NA
Arsenic (V)	4.80E+01 *		NC		8.50E+02	4.80E+01
Barium				NC	9.68E+02	NCA
Boron					3.51E+02	NCA
Cadmium	9.71E-01 * *	9.71E-01 5	NC		8.70E+00	9.71E-01
Copper	9.98E+00 *	9.98E+00			2.87E+02	9.98E+00
Iron	1.00E+03 *	1.00E+03	NC		6.58E+05	1.00E+03
Lead	2.47E+00 *	2.47E+00	NC		2.80E+02	2.50E+00
Manganese					3.15E+04	NCA
Mercury	1.20E-02 •	1.20E-02	NC		5.50E-01	1.20E-02
Nickel	1.33E+02 '	1.33E+02 '	NC		1.54E+02	1.33E+02
Thallium	4.00E+01 ^d *	4.00E+01 d	NC		4.24E+05	4.00E+01
Zinc	8.96E+01 *	8.96E+01 ¹	NC		9.74E+02	9.00E+01

(a) NH = State of New Hampshire Water Quality Criteria for Toxic Substances - Protection of Aquatic Life (freshwater chronic criteria), April 1990.

(b) FAWQC = Federal Ambient Water Quality Criteria for protection of aquatic life (freshwater chronic criteria), EPA, 1991.

(c) Unless otherwise indicated, risk-based concentrations are based on a hazard index of one and a 10⁻⁶ cancer risk for carcinogens. Calculations are based on scenarios and assumptions presented in Subsection 2.3 in F-500.

(d) Value presented is the Lowest Observed Effect Level (LOEL).

(e) Value is for total dichlorobenzenes.

(f) Although categorized as a carcinogen, in the absence of a slope factor, the risk-based concentration is based on noncarcinogenic risk. (g) Value is freshwater acute criterion for total dichloroethenes. (h) Values presented are for a temperature of 14°C and a pH of 7.3 in Railway Ditch.

(i) Chronic criterion based on a measured hardness of 82 mg/L as CaCO3 for Railway Ditch.

(i) can one categorized as a carcinogen, the chemical is not considered to be carcinogenic through the applicable exposure route. NC = Not calculated. Chemical is not of concern to human health through the surface water pathway.

NCA = Risk-based levels were not calculated and no applicable ARARs are available.

NA = Not applicable, ARARs and/or risk-based concentration exceed maximum detected concentration. • = Value used to select cleanup goal.

- The LF-5 debris excavation area will be dewatered, as necessary, during the excavation process (i.e., the groundwater table will be artificially lowered rendering the area to be excavated dry). Any groundwater extracted as part of the dewatering process will be treated in an on-site mobile treatment unit to meet site-specific groundwater treatment objectives. Treated groundwater will be discharged to the local POTW via the sanitary sewer.
- Soil and waste materials from LF-2 and LF-4 will be consolidated on LF-5. A final decision under CERCLA for LF-2 and LF-4 will be required prior to implementation of the proposed consolidation plan for LF-2 and LF-4.
- Following consolidation of all wastes, including material from LF-2 and LF-4, the landfill will be capped with a composite barrier cap, which will meet performance standards required in a RCRA cap. As part of the cap construction, a passive gas collection system will be installed to capture and vent landfill gases. It is estimated the cap will cover the entire landfill, an area of approximately 1.2 million square feet. Deed restrictions will be imposed to restrict future construction activities that could violate the integrity of the cap.
- The remedial action will be monitored to ensure that the integrity of the cap is maintained as well as monitoring groundwater elevation to ensure that the waste material remains dry.
- Five-year reviews would be required as part of the environmental monitoring program. The 5-year reviews would assess the performance of the containment system and make recommendations, as appropriate, regarding additional remedial action.

Figure 9 provides a remedial process flow sheet for the selected remedy that depicts the elements described. Detailed descriptions of the various components follow.

Sediment excavation and consolidation on LF-5 would be performed in a phased approach. Sediments would first be excavated and placed on compacted soils adjacent to the Railway Ditch. These activities will be conducted in accordance with the requirements of Env-Ws 415. During excavation, silt fences, hay bales, and other erosion control measures would be used for control or erosion and runoff. Following excavation, the sediments would be transported to a central staging area for thickening. Thickening would involve mixing the sediments with sandy soil in a 1:1 ratio. The use of heavy equipment and engineering controls, such as containment, during thickening would be facilitated by the installation of a concrete pad within the staging area. Following thickening, sediments would be placed on LF-5 for compaction, along with excavated landfill debris, prior to landfill regrading and capping.

As described in Section VII of this ROD, it is anticipated that $3,200 \text{ yd}^3$ of sediments from the Railway Ditch will be excavated and consolidated, according to the method presented previously. In addition, it is currently believed that a total of $6,600 \text{ yd}^3$ of sediments from two site wetlands may require similar remediation. During remedial design, available data (including additional Stage 4 data) will be used to refine this estimate, as well as to determine the potential for and magnitude of harmful environmental effects resulting from wetlands excavation. During remedial design, it will be determined whether excavation in a particular wetland would result in more harm to the ecosystem and greater human health risks than can be justified by the expected contaminant reduction.

Since excavation would result in destruction of portions of the affected wetlands, excavation will be avoided wherever possible. The remedial design also will include wetlands restoration or formation of new wetlands, as necessary.

Currently, restoration of the Railway Ditch following excavation is not anticipated. The ditch will likely be allowed to stabilize and revegetate naturally. The necessity for immediate stabilization and revegetation will be reevaluated, if during remedial design, it becomes apparent that regrading and capping actions at LF-5 would adversely impact the ditch.

This alternative also involves excavation and consolidation of landfill soil and debris predicted to be in contact with groundwater or within 2 feet above the groundwater table as it would exist following capping of LF-5. Available groundwater elevation data were used in conjunction with the MODFLOW model to predict what portion of landfill soils would require excavation under this scenario. All excavated materials would initially be stockpiled within a bermed area atop the landfill. The MODFLOW model estimates the volume of excavated soil and debris at a total of 145,500 yd³, approximately 92,000 yd³ of which

represents unsaturated materials that are to be returned to the landfill following placement of clean fill to 2 feet above the water table. The remaining 53,500 yd³ would be consolidated on the landfill. Material from LF-2 and LF-4 will also be consolidated on LF-5 prior to capping. The quantities of this material were estimated to be approximately 76,320 cubic yards from LF-2 and LF-4 combined. Consolidation of this additional material onto LF-5 is not expected to significantly change the cap design criteria originally presented in the FS.

During excavation/consolidation activities, erosion runoff and odor and particulate emissions would be controlled via the use of a temporary runoff detention basin adjacent to the stockpile, and placement of geomembranes on the stockpile and sideslopes of the excavation areas. Continuous on-site air monitoring will also be conducted during excavation.

Construction activities during landfill debris excavation and consolidation may be facilitated via dewatering of the excavation below the static water table. A system of well points would be installed, which would allow groundwater extraction at an average rate of approximately 50 gpm. Following extraction, groundwater would be treated in a mobile on-site unit composed of multimedia filtration, ion exchange, and activated carbon adsorption units. Runoff from the stockpile would also be treated in the mobile unit.

Treated effluent would comply with MCLs and federal, state, and local requirements for discharge to a POTW. As such, treated water will be: 1) discharged to the local POTW via sanitary sewer lines, or 2) used for site dust control (see Figure 9, for a schematic).

Subsequent to consolidation of sediments and landfill materials on LF-5, the landfill would be capped with a composite barrier that would meet RCRA performance standards. The cap would consist of the following (from bottom to top):

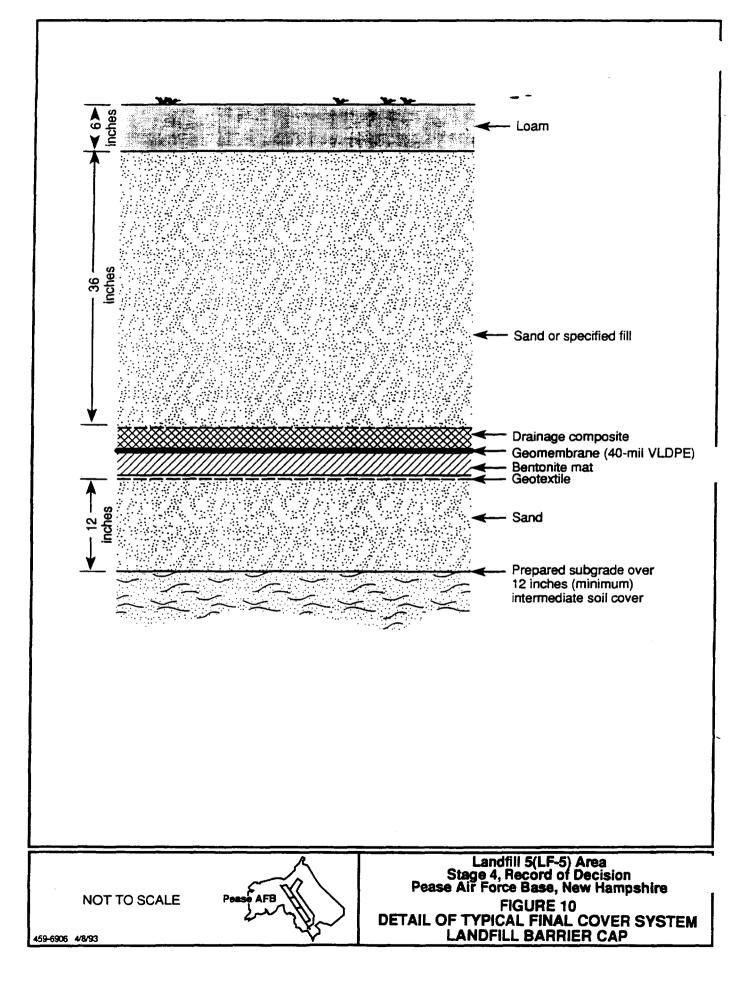
• A subbase/gas ventilation layer, consisting of a 12-inch lift of sandy soils placed on a graded and compacted 12-inch layer of intermediate soil overlying the landfill. Decomposition gases would be vented via passive gas vents constructed of perforated and solid-walled plastic pipe. The vents would be installed at 200-foot intervals through the final cover and linked to the sand

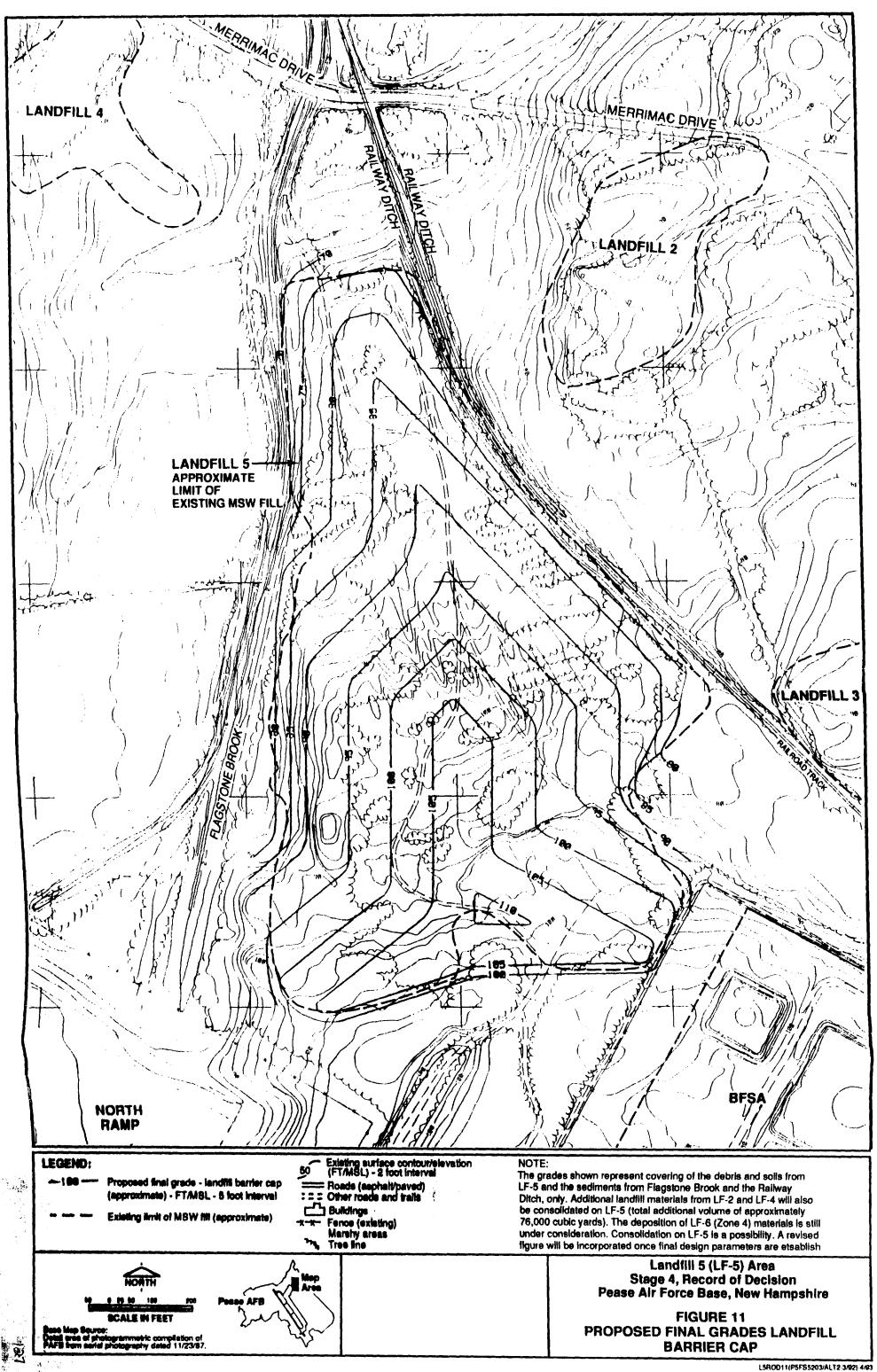
subbase layer, which would aid in the interception and transmission of gases to the vents. A geotextile would overlie the sand layer and would serve as a bedding layer for the overlying composite barrier.

- A composite barrier layer, consisting of a clay mat overlain by a 40-mil, very low density polyethylene (VLDPE) geomembrane. The clay mat would be composed of bentonite clay bonded to a geomembrane or a geotextile.
- A drainage composite layer, composed of a single-layer high-density polyethylene (HDPE) drainage net with a nonwoven needle-punched geotextile. This layer would allow for water percolation, while preventing cover soil intrusion.
- A protective cover layer, comprised of a minimum of 36 inches of drainage sand and 6 inches of mulched, seeded topsoil. This layer would provide protection against erosion and frost penetration.

The drainage composite layer and its underlying geomembrane would be terminated in a perimeter anchor trench. The trench would be fitted with a subdrain of perforated plastic piping embedded in crushed stone. An estimated 18,000 yd³ of perimeter landfill materials adjacent to the Railway Ditch and Flagstone Brook would be excavated and regraded to allow for appropriate construction of the anchor trench, drainage, access, and setbacks from site waterways. Figure 10 provides a schematic of the final cover system for the barrier cap at LF-5.

The composite-barrier cap system would cover an estimated 28 acres. Final grading prior to capping would result in a minimum slope of 5% on top, and a maximum of 33% sideslope. Figure 11 depicts proposed final grades for the landfill barrier cap. Subsidence of the landfill surface would be monitored annually. Final grading may be contoured to blend with the surrounding topography. This grading will be presented in the remedial design.





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In addition, plans exist for construction of a North Ramp access road, by the PDA, which will traverse a portion of the LF-5 cap. The Air Force has worked and will work with the PDA in coordinating the design and construction activities for the cap and the access road. A figure depicting the planned layout of the access road can be found in the remedial design of Drawing No. 1, sheet 1 of 6, entitled "North Apron Access Road — Conceptual Design," by Hoyle and Tanner Associates.

As with excavation activities, capping may result in destruction of wetlands adjacent to LF-5. (Potentially impacted wetlands are shown in Figure 12.) Mitigation of capped wetlands will involve construction of wetlands in non-wetlands areas. Appropriate wetlands reconstruction plans will be based on a wetlands function and value assessment conducted prior to commencement of construction activities.

Groundwater will be monitored via sampling and analysis on a semiannual basis for an assumed duration of 30 years. This duration is typically assumed for costing purposes, per CERCLA guidance. As stated in Section IX, any future additional actions found to be necessary, regardless of when, will be conducted by the Air Force. Analysis would likely include VOCs, SVOCs, metals, nitrate, sulfate, chemical oxygen demand (COD), and other selected inorganics. In addition, pesticides and phenols would be monitored bi-annually. It is anticipated that surface water at LF-5 will undergo the same sampling regimen as groundwater, with the addition of biannual PCB analyses. Sediments would be analyzed semiannually for SVOCs and annually for VOCs, pesticides/PCBs, metals, sulfate, nitrate, and other inorganics. Sediments would be tested for phenols biannually. As with groundwater, surface water and sediment monitoring may continue for a period of 30 years. Specifics of the groundwater, surface water, and sediment monitoring programs will be finalized during remedial design.

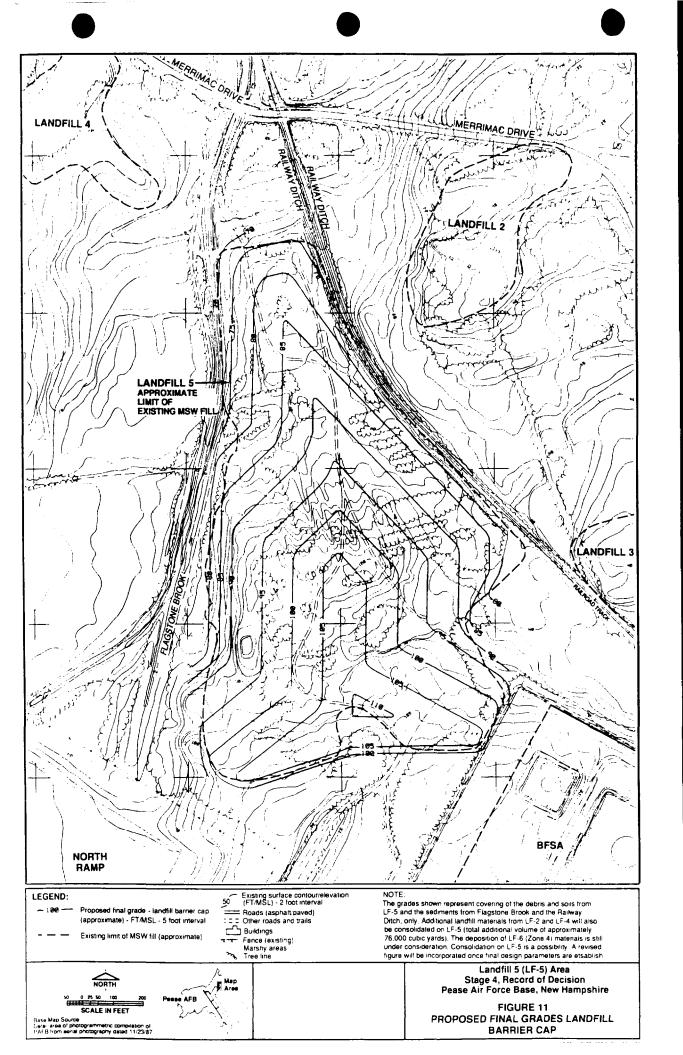
In addition to monitoring of ambient air at three stations on the landfill (upwind, downwind, central), soil gas monitoring along the LF-5 periphery would be conducted to monitor gas buildup beneath the cap. Approximately eight intermediate soil vents would be installed at locations between passive gas vents. In all cases, samples would be analyzed for methane

and VOCs over a period of 30 years, unless annual evaluations of the monitoring program indicate that a change in the program is necessary.

Five-year reviews of the containment system would be required for performance assessment and possible reevaluation and adjustments to the remediation program.

Prior to implementation of Alternative SC-2A, pre-design studies would be required to more accurately determine design parameters. These studies would include:

- Wetlands sampling for more accurate determination of design excavation volumes.
- Additional groundwater modeling to more closely define the depth of the water table following capping.
- Modeling of erosion/runoff from the cap to determine whether restoration of Flagstone Brook or the Railway Ditch (stabilization and revegetation) would be necessary.
- Evaluation of sampling results for LF-2 and LF-4 to determine additional consolidated soil and debris volumes in the event that they are consolidated on LF-5.
- Groundwater treatability studies for determination of mobile treatment unit design parameters.



XI. STATUTORY DETERMINATION

The remedial action selected for implementation at Pease AFB site is consistent with CERCLA and, to the extent practicable, the NCP. The selected remedy is protective of human health and the environment, attains ARARs or invokes appropriate waivers, and is cost-effective. The selected remedy does not satisfy the statutory preference for treatment that permanently and significantly reduces the mobility, toxicity, or volume of hazardous substances as a principal element. Additionally, the selected remedy utilizes alternative treatment technologies and resource recovery technologies to the maximum extent practicable.

A. The Selected Remedy is Protective of Human Health and the Environment

The remedy at this site will permanently reduce the risks posed to human health and the environment by eliminating, reducing, or controlling exposures to human and environmental receptors through treatment, engineering controls, and institutional controls; more specifically:

- Excavation and consolidation of contaminated landfill soils and debris and contaminated sediments on LF-5, thereby eliminating leaching for contaminants to groundwater and reducing receptor exposure via containment.
- Dewatering of landfill soils and debris during construction and treatment of water to reduce toxicity prior to discharge to a local POTW.
- Capping of landfill to prevent water infiltration and reduce volume of leachate produced, and further reducing receptor exposure to contaminants.
- Deed restrictions to prevent future construction that may pose a threat to cap integrity, thereby maintaining contaminant containment.

Moreover, the selected remedy will achieve potential human health risk levels that attain the 10^{-4} to 10^{-6} incremental cancer risk range and a level protective of noncarcinogenic endpoints, and will comply with ARARs and other TBC criteria.

B. The Selected Remedy Attains ARARs

The selected remedy will attain all of the substantive, non-procedural requirements of federal and state ARARs. ARARs for LF-5 are set forth in Table 20 contained in Appendix E of this document, which contains a complete list of ARARs including the regulatory citation, and a brief summary of the requirement, and the action to be taken to attain the requirement.

The ARARs identified for LF-5 include:

Chemical-Specific ARARs

There were no chemical specific ARARs identified for the LF-5 selected remedy.

Location-Specific ARARs

- Fish and Wildlife Coordination Act (FWCA)
- Executive Order 11990 (40 CFR 6, Appendix A), Protection of Wetlands
- Floodplains Executive Order 11888 Minimization Of Flood Impacts And Protection of Beneficial Value of Floodplains
- Clean Water Act, Section 404 (40 CFR 230; 33 CFR 320-330), Prohibition of Wetland Filling
- State of New Hampshire Administrative Code Env-Ws 415 Rules To Prevent Pollution From Activities In Or Near State Surface Waters
- State of New Hampshire Administrative Code Env-Wt 300, 400, 600 Criteria And Conditions For Fill And Dredging In Wetlands

Action-Specific ARARs

- RCRA Releases From solid Waste Management Units
- RCRA Closure and Post Closure
- RCRA Preparedness and Prevention
- RCRA Contingency Plan and Emergency Procedures

- RCRA Requirements for Tank Systems
- RCRA Use and Management of Containers
- RCRA Temporary Storage of Hazardous Soils
- RCRA Requirements for Equipment Leaks At TSDFs
- RCRA Design and Operating Requirements for Waste Piles and Landfills
- CWA Pretreatment Standards for POTW Discharge
- New Hampshire Rules for Identification and Listing of Hazardous Waste
- New Hampshire Standards for Owners and Operators of Hazardous Waste Facilities
- New Hampshire Pretreatment Standards
- New Hampshire Terrain Alteration Requirements
- New Hampshire Ambient Air Limits for Toxic Air Pollutants
- New Hampshire Fugitive Dust Control Requirements

Policies, Guidelines and Criteria To Be Considered

In addition, the following policies, criteria, and guidelines (to be considered, or "TBCs") will be considered during the implementation of the remedial action:

- EPA Risk Reference Doses
- NOAA Technical Memorandum NOS OMA 52
- EPA Carcinogen Assessment Group Potency Factors
- Federal Groundwater Protection Strategy
- RCRA Proposed Air Pollutant Emission Standards For Owners and Operators of TSDFs
- CAA Proposed Performance Standards for NMOC Emissions at New and Existing Municipal Solid Waste Landfill

• CERCLA Off-Site Disposal Policy

Table 20 included in Appendix A provides a complete listing of the ARARs and TBCs for Alternative SC-2A, including regulatory citations, requirement synopsis, actions to be taken to attain the requirements, and determinations as to whether the requirements represent ARARs or TBCs.

The following narrative presents a summary of some of the key ARARs and their applicability to the selected remedy.

Federal and State Water Quality Criteria

The preferred option for discharge of treated groundwater collected during construction dewatering is to the base wastewater treatment plant. Under this option, discharge limits would be based on factors regulated by the POTW's NPDES permit, pretreatment regulations, and water pollution control laws, which are discussed under action-specific ARARs. Because final discharge from the POTW would be to Great Bay, federal and New Hampshire Water Quality Criteria are ultimately applicable to this discharge option.

Pretreatment standards are being developed with the City of Portsmouth who is the current operator of the plant. Both the Pretreatment Standards and CWA NPDES will be attained upon successful establishment of pretreatment standards for discharge from the on-site mobile groundwater treatment system.

Federal and State Air Quality Regulations

The technologies proposed in the selected remedy will not create any new sources of air emissions. Therefore, many federal and state regulations governing air quality do not apply to the selected remedy. The only air quality standards that are applicable are particulate standards promulgated under the Clean Air Act and New Hampshire Ambient Air Quality Standards. The particulate standard would apply to remedial construction activities associated with cap installation. These standards would be attained through monitoring and, if necessary, use of dust suppression techniques or engineering controls. Potential emissions from the closed landfill would be in compliance with Performance Standards for Nonmethane Organic Compounds for new and existing municipal landfills as specified under the Clean Air Act.

State Location-Specific Regulations

All of the location-specific ARARs that apply to the selected remedy are based on the close proximity of the site to Flagstone Brook and Railway Ditch. New Hampshire Environmental Regulations provides that removal of soils or other activities conducted adjacent to streams must not cause unreasonable soil erosion, cause unreasonable harm to significant wildlife habitats, unreasonably interfere with natural water flow, lower water quality, or unreasonably cause or increase flooding. Additionally, NHDES regulations provides standards for erosion control and soil excavation. Implementation of the selected remedy would not impact the drainage or natural flow of Flagstone Brook and Railway Ditch. Erosion control measures will be employed during construction to minimize soil/sediment from entering Flagstone Brook or Railway Ditch.

Federal and State Hazardous Waste Regulations

The applicability of RCRA and New Hampshire Hazardous Waste Regulations depends on whether the wastes are RCRA hazardous wastes as defined under these regulations. To date, there is no information available (i.e., manifests) to indicate that RCRA-regulated materials were disposed of at LF-5. However, because toxic constituents are present in the waste materials and groundwater at LF-5 many portions of the federal and state hazardous waste regulations are relevant and appropriate to the selected remedy.

RCRA General Facility Standards, Preparedness and Prevention, and Contingency Plan and Emergency Procedures will be attained during operation of the mobile groundwater treatment system. The facility will be designed, maintained, constructed, and operated to minimize the possibility of an unplanned release that could threaten human health or the environment. During remedial construction, safety and communication equipment will be installed at the site, and local authorities will be familiarized with site operations. Contingency plans will be developed and implemented during site work and treatment system operation. A program will be developed for handling storage, and recordkeeping in accordance with New Hampshire Hazardous Management Rules.

A post closure monitoring program will be developed for LF-5 in accordance with RCRA Releases from Solid Waste Management Units and Closure and Post-Closure regulations.

During treatment of contaminated groundwater collected during construction dewatering, sludges containing some toxic constituents will be produced. A component of groundwater treatment includes laboratory analysis of this sludge, including Toxicity Characteristic Leachate Procedure (TCLP) testing. If the sludge fails TCLP testing, this material will be considered hazardous. As a characteristic hazardous waste, RCRA regulations including Land Disposal Restrictions, will apply and the sludge will be treated and disposed of in a RCRA Subtitle C facility.

Because toxic constituents are present on site, OSHA regulations protecting worker health and safety at hazardous waste sites are applicable to the implementation and long-term operation of the selected remedy. Site workers will have completed training requirements and will have appropriate health and safety equipment on site. Contractors and subcontractors working on site will follow health and safety procedures.

Although LF-5 may take material from LF-2 and LF-4 as subgrade fill, it is not necessary for LF-5 to obtain a permit under the New Hampshire Hazardous Waste Rules or other New Hampshire regulations. Landfills 2, 4, and 5 are all part of a single National Priorities List site, Pease Air Force Base, (55 Federal Register 6154, February 21, 1990), and therefore the activities can be viewed as taking place on site. Moreover, if Landfills 2, 4, and 6 are viewed as separate facilities, CERCLA § 104(d)(4) allows the lead agency broad discretion to treat non-contiguous facilities as one site for the purpose of taking response action, including where the sites, as here, are related based on geography or on the basis of waste treatment compatibility. See 55 Federal Register 8690 (March 8, 1990).

C. The Selected Remedial Action is Cost-Effective

In the judgment of the Air Force, the selected remedy is cost effective (i.e., the remedy affords overall effectiveness proportional to its costs). Once alternatives that were protective of human health and the environment and that either attain, or, as appropriate, waive ARARs were identified, the overall effectiveness of each alternative was evaluated by assessing the relevant three criteria—long-term effectiveness and permanence; reduction in TMV through treatment; and short-term effectiveness. The relationship of the overall effectiveness of these remedial alternatives was determined to be proportional to their costs.

A summary of the costs associated with each of the source control remedies follows. All costs are presented in net present worth costs.

	Alternative	Capital Costs	O&M	Present Worth
SC-1	No action, institutional controls.	\$174,000	\$2,948,315	\$3,123,000
SC-2A	Sediment/landfill consolidation, capping, on-site groundwater treatment and disposal for dewatering.	\$17,362,700	\$6,629,721	\$23,992,000
SC-3A	Sediment consolidation, landfill capping, on-site groundwater treatment and disposal to lower water table below solid waste.	\$13,084,000	\$10,916,337	\$24,000,000
SC-4D	Sediment/landfill consolidation, hot spot thermal treatment, landfill capping, on-site groundwater treatment and disposal for construction dewatering.	\$23,526,400	\$ 6,605,687	\$30,132,000
SC-5D	Sediment/landfill waste on-site RCRA landfilling, on-site groundwater treatment and disposal for construction.	\$ 28,813,600	\$ 11,461,724	\$40,275,000

Four of the alternatives are protective and attain ARARs: SC-2A, SC-3A, SC-4D, and SC-5A. Comparing these alternatives, the selected alternative, SC-2A, combines the most cost-effective remedial alternative components that were evaluated. The remedy provides

a degree of protectiveness proportional to its costs. Alternative SC-5A is 40% more costly than Alternative SC-2A, without providing a commensurate increase in protectiveness. While Alternative SC-4D considers the EPA preference for a treatment component via thermal treatment of hot spot soils, it is 20% more costly and does not provide an increased degree of protectiveness over Alternative SC-2A, since Alternative SC-2A prevents receptor access to and migration of hot spot contaminants. Alternative SC-3A, like Alternative SC-2A involves the construction of a cap over the landfill and landfill debris dewatering. However, Alternative SC-3A would provide for reduction of contaminant migration via artificial lowering of the water table to a level below in-site debris. In contrast, Alternative SC-2A would reduce migration of contaminants by placing landfill debris on top of the landfill at least 2 feet above the water table. Each would achieve the same degree of protectiveness, but Alternative SC-2A would do so at a slightly lower cost. Additionally, while the costs for Alternative SC-2A and Alternative SC-3A are very nearly the same, it must be remembered that all present worth costs were calculated assuming a 30-year project life. In reality, the pump-and-treat component of SC-3A would have to continue indefinitely to provide long-term effectiveness. In addition, continuous pumping of the aquifer beneath LF-5 could adversely affect wetlands in the area by removing an important source of recharge. Additionally, contaminant migration mitigation is addressed in the Zone 1 Draft FS, which was completed in August 1993. Alternative SC-1 (no-action) does not meet all ARARs and is not sufficiently protective of human health and the environment.

A summary of costs for key elements of the selected source control remedy follows. All costs are net present worth.

Component of Remedy	Present Worth (\$)
Landfill excavation/consolidation	\$4,334,050
Sediment excavation/consolidation	539,175
Groundwater dewatering system	651,000
Mobile groundwater treatment system	332,610
Composite barrier cap installation	6,215,160
O&M	5,290,669
Miscellaneous	6.629.721
TOTAL	\$23,992,000 (rounded)

O&M includes groundwater, surface water, sediment and air monitoring, 5-year SARA review, surveying and subsidence monitoring, replacement costs for-fencing and monitor wells, and access restrictions. Miscellaneous includes mobilization and health and safety costs, contingency costs, and additions and modifications to monitoring systems.

D. The Selected Remedy Utilizes Permanent Solutions and Alternative Treatment or Resource Recovery Technologies to the Maximum Extent Practicable

Once those alternatives that attain or, as appropriate, waive ARARs and that are protective of human health and the environment were identified, the Air Force identified which alternative utilizes permanent solutions and alternative treatment technologies or resource recovery technologies to the maximum extent practicable. This determination was made by deciding which one of the identified alternatives provides the best balance of trade-offs among alternatives in terms of: 1) long-term effectiveness and permanence; 2) reduction of toxicity, mobility, or volume through treatment; 3) short-term effectiveness; 4) implementability; and 5) cost. The balancing test <u>emphasized</u> long-term effectiveness and permanence and the reduction of TMV through treatment; and <u>considered</u> the preference for treatment as a principal element, the bias against off-site land disposal of untreated waste, and community and state acceptance. The selected remedy provides the best balance of trade-offs among the alternatives.

Alternatives SC-3A, SC-4D, and SC-5A all out rank Alternative SC-2A based on emphasis on reduction of TMV through treatment. In addition, both Alternatives SC-3A and SC-4D place greater emphasis on the preference for treatment as a principal element. However, the costs for Alternatives SC-4D and SC-5A exceed those for Alternative SC-2A by 20 and 40%, respectively. As described, implementation of the treatment portion of Alternative SC-3A extends the remedial action beyond the 30-year time frame allotted for costing purposes, and may adversely impact wetlands at LF-5 via dewatering of a wetland recharge area. In addition, implementation of remediation will further address the reduction of TMV and EPA preference for treatment. Alternative SC-1 contains no provision for reduction in TMV or for consideration of the statutory preference for treatment as a component of remediation.

E. The Selected Remedy Does Not Satisfy the Preference for Treatment which Permanently and Significantly Reduces the Toxicity, Mobility, or Volume of the Hazardous Substances as a Principal Element

The principal element of the selected source control remedy is the containment of waste in LF-5. The principal element of the Zone 1 remedial alternative is management of contaminant migration via groundwater and surface waters. Together, these elements address the primary threat at the site, namely, direct contact with contaminants in landfill soil and debris and migration of this contamination to groundwater and surface waters.

Treatment is not the principal element of the selected source control alternative because treatment of landfill debris is not practical or cost-effective given the size and heterogeneity of the landfill contents. The selected source control remedy may, however, involve treatment of groundwater extracted during construction dewatering, which should remove much of the contaminants currently present in groundwater.

XII. DOCUMENTATION OF SIGNIFICANT CHANGES

The LF-5 Draft Final FS (F-494) was completed in August 1992. The original Proposed Plan for LF-5 was completed in January 1993. This Proposed Plan documented the U.S. Air Force's selected remedy for source control at LF-5. During the public comment period (14 January through 13 February 1993) and public hearing (27 January 1993) that followed the public expressed a preference for consolidating as many Pease landfills as possible in one area, so as to minimize the total acreage of land that would be designated as having restricted use. In addition, several other concerns were raised regarding the selected remedy, such as disposal of treated groundwater from construction dewatering in Flagstone Brook.

In response to public input, the U.S Air Force completed a revised Proposed Plan for LF-5 source control, which included as a remedial component, the potential consolidation of LF-2 and LF-4 onto LF-5. This revised Proposed Plan for LF-5 was completed in July 1993 and public comment period for the Revised Proposed Plan was held from 20 July to 19 August 1993. The following paragraphs describe changes to the selected remedy and other minor changes that occurred following issuance of the original Proposed Plan for LF-5.

One modification involves the potential consolidation of materials from two other Zone 1 landfills (LF-2 and LF-4) onto LF-5. The change would result in: 1) an increase in the total volume of landfill soil and debris to be consolidated (an additional 76,320 yd³), 2) possible changes in the final height and grading of the landfill prior to capping, 3) possible impacts to additional Zone 1 wetlands already expected to be impacted, and 4) increased short-term risks associated with soil inhalation, due to the increased time for and extent of excavation. These changes would be expected to be small in comparison with the entire scope of LF-5 remedial actions and are not expected to significantly alter the cap design criteria presented in the LF-5 FS. These changes would not be expected to adversely impact the overall ranking of Alternative SC-2A as the preferred alternative. Sections VIII, IX, and X provide further detail on the potential impacts of adding LF-2 and LF-4 remediation to the scope of Alternative SC-2A.

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Consolidation of LF-2 and LF-4 onto LF-5 is the preferred alternative in part due to public comments on the original Proposed Plan for LF-5. These comments-expressed a desire for consolidation of as many landfills as possible in order to retain more land at Pease AFB for unrestricted development. The remedial action was also selected due to its relative ease of implementation, and due to the resulting closure of both LF-2 and LF-4 that would result. Excavation and consolidation of LF-2 and LF-4 onto LF-5 is not evaluated in an FS as is the typical practice. Instead, the Air Force's plans to implement this remedy will be outlined in the Proposed Plan and Record of Decision for Zone 1. A final decision under CERCLA will be required prior to implementation of the proposed excavation and consolidation plan for LF-2 and LF-4.

A second modification involves disposal of treated groundwater from construction dewatering. Based on public comments received on the original Proposed Plan, discharge of treated groundwater extracted during construction dewatering will be to the sanitary sewer rather than Flagstone Brook.

Since issuance of the revised Proposed Plan for Landfill-5, there have been no significant modifications to the LF-5 selected remedy. Public comments and comments from EPA and NHDES pertaining to the specifics of the LF-2/LF-4 remedy are addressed in this ROD.

XIII. STATE ROLE

The NHDES reviewed the various alternatives and has indicated its support for portions of the selected remedy. The state has also reviewed the RI, RA, and FS to determine if the selected remedy is in compliance with applicable or relevant and appropriate state environmental laws and regulations. The NHDES, as a party to the FFA, concurs with the selected remedy for the Pease AFB site. A copy of the declaration of concurrence is attached as Appendix B.

XIV. ACRONYMS/REFERENCES

LIST OF ACRONYMS

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AALs	Ambient Air Limits
AFB	Pease Air Force Base
AFCEE/ESB	Air Force Center for Environmental Excellence
ANOVÁ	analysis of variance
ARARs	Applicable or Relevant and Appropriate Requirements
AWQC	Ambient Water Quality Criteria
BAT	Best Available Technology
BCT	Best Conventional Technology
BFSA	Bulk Fuel Storage Area
BMP	Best Management Practices
CAA	Clean Air Act
CAMU	Corrective Action Management Unit
c-1,2-DCE	cis-1,2-dichloroethylene
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CO	carbon monoxide
COD	chemical oxygen demand
CWA	Clean Water Act
CZMA	Coastal Zone Management Act
DCA	1,1-dichloroethane
DCB	1,4-dichlorobenzene
DCE	1,2-dichloroethylene
DEHP	bis(2-ethylhexyl) phthalate
DOD	Department of Defense
DOT	Department of Transportation
DRE	destruction and removal efficiency
DRED	Department of Resources and Development
EP	equilibrium partitioning
EPA	U.S. Environmental Protection Agency
ER-L	Effect Range-Low
ER-M	Effect Range-Medium
ESA	Endangered Species Act
FFA	Federal Facilities Agreement
FR	Federal Registry
FWCA	Fish and Wildlife Coordination Act
gpd	gallons per day
gpm	gallons per minute
GPR	ground penetrating radar
GWTP	groundwater treatment plant
HCl	hydrochloric acid
HI	hazard index
HMTA	Hazardous Materials Transportation Act
HQ AFBDA	Headquarters Air Force Base Disposal Agency

LIST OF ACRONYMS (Continued)

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	(constituent)
IRM	Interim Remedial Measures
IRP	Installation Restoration Program
LDRs	Land Disposal Restrictions
LT^3	Low Temperature Thermal Treatment
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MSL	mean sea level
NAAQS	National Ambient Air Quality Standards
NCP	National Contingency Plan
NESHAP	National Emission Standards for Hazardous Air Pollution
NHANG	New Hampshire Air National Guard
NHCAR	New Hampshire Code of Administrative Rules
NHDES	New Hampshire State Department of Environmental Services
NHPA	National Historic Preservation Act
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NSPS	New Source Performance Standards
NSDWS	National Secondary Drinking Water Standards
0&G	oil and grease
O&M	operation and maintenance
OSHA	Occupational Safety and Health Act
PAHs	polynuclear aromatic hydrocarbons
PCBs	polychlorinated biphenyls
PCDA	Paint Can Disposal Area
PCE	tetrachloroethene
PCSs	potential (groundwater) contaminant sources
PDA	Pease Development Authority
POHC	principal organic hazardous constituent
POTW	publicly owned treatment works
PPE	personal protective equipment
RA	Risk Assessment
RAO	remedial action objective
RCRA	Resource Conservation and Recovery Act
RD/RA	Remedial Design/Remedial Action
RfD	reference dose
RI/FS	Remedial Investigation/Feasibility Study
RI	Remedial Investigation
ROD	Record of Decision Period Statute Appointed
RSA SARA	Revised Statute Annotated Superfund Amendments and Resuthorization Act
	Superfund Amendments and Reauthorization Act
SCOPE	Seacoast Citizens Overseeing Pease Environment

LIST OF ACRONYMS (Continued)

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SDWA SMCL SVOCs TBC TCE TCLP TMB TMV TPHs TRC TSCA TSD µg/kg µg/L UIC USC USCA	Safe Drinking Water Act Secondary Maximum Contaminant Level semivolatile organic compounds treated as to be considered trichloroethylene Toxicity Characteristic Leaching Procedure trimethyl benzene toxicity, mobility, or volume total petroleum hydrocarbons Technical Review Committee Toxic Substances Control Act treatment, storage, and disposal (facility) micrograms per kilogram micrograms per liter underground injection control United States Code United States Code Annotated
USC	United States Code
UST	underground storage tank
VLDPE	very low density polyethylene
VOCs	volatile organic compounds
WHPA	Wellhead Protection Area

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- F-368 Rand, J.R. 1990. Seabrook Updated Final Safety Analysis Report. Vol. II Site Characteristics. Seabrook, NH.
- F-428 U.S. Department of the Air Force. 1993. Installation Restoration Program, Proposed Plan for IRP Site 5, Landfill 5 - Source Area, Pease AFB, NH. January 1993.
- F-447 WESTON (Roy F. Weston, Inc.). 1986. Installation Restoration Program, Phase II Confirmation/Quantification, Stage 1 Final Report, Pease AFB, NH. June 1986.
- F-455 WESTON (Roy F. Weston, Inc.). 1989. Installation Restoration Program, Stage 2 Draft Final Report, Pease AFB, NH.

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- F-484 WESTON (Roy F. Weston, Inc.). 1991. Installation Restoration Program, Stage 4 Sampling and Analysis Plan for Pease AFB, NH. January 1991. Draft Final.
- F-494 WESTON (Roy F. Weston, Inc.). 1992. Installation Restoration Program, Stage 3C, Feasibility Study, Landfill 5, Pease AFB, NH.
- F-500 WESTON (Roy F. Weston, Inc.). 1992. Installation Restoration Program, Stage 3C Landfill 5 Remedial Investigation, Pease AFB, NH. April 1992. Draft Final.
- F-518 WESTON (Roy F. Weston, Inc.). 1992. Off-Base Well Inventory Letter Report. Pease AFB, NH. 17 September 1992.

APPENDIX A

ARARS FOR THE LANDFILL 5 SELECTED REMEDY (ALTERNATIVE SC-2A)

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Rs for Alternative SC-2A – Sediment and Landfill Consolidation; Landfill Capping; On-Site Groundwater Treatment and Disposal for Construction Dewatering LF-5, Pease AFB, NH ARARS for Alternative SC2A

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i Iv Be Lanen L. ar Requirents		(11A) 600 to set set as a set of characterize (rely down exposure to contaction) in groundwater author water, acdiment, and solve Set Subsection 1 s and 2.3 (1.201).	More considered when scient op so diment stean up receive the Tuble 2010 E120	1.P.A. Carsinogenic Potency Luck is "face to the so-engoing the rules face non-minimal care to so- solving the contains much care to so- solving the contains where so- not many rules so so so so.	• • •		
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ARARs for Alternative SC-2A - Sediment and Landfill Consolidation; Landfill Capping, On-Site Groundwater Treatment and Disposal for Construction Dewatering LF-5, Pease AFB, NH (Continued)

Status	Applicable		Applicable
Action To Be Taken Fo Attain Requirements	The range of alternatives evaluated were those which best meet the project purpose of minimizing leaching of contaminants from source area soils into groundwater and surface water. All of the alternatives have similar adverse impacts on the Landfill 5 wetlands thowever, the selected alternative had the least adverse impact. Remethal activities will bu- designed to minimize potential adverse affects on the aquatic ecosystem. Any wetlands adversely affected will be restored or replaced	EPA's general pointy for protecting groundwater has been taken into consideration when selecting soil clean-up goals See Table 2.4-4 and Table 5.2-3 (F-194)	Relevant federal agencies will be contacted to help analyze impacts of remedial action on fish and wildlife in Flagstone Brook, and in the wetlands in and around Plagstone Brook and the Rathway Ditch and to develop measures to prevent, mitigate, and compensate for adverse impacts.
Requirement Synopsis	Contains requirements for discharge of dredge or fill material, including that no discharge is permitted if there is a practicable alternative to the proposed discharge which would have a less adverse impact on the aquatic ecosystem, and that no discharge permitted unless appropriate and practicable steps are taken to minimize potential adverse impacts on the aquatic ecosystem.	1:PA's strategy for protecting groundwater in the 1990's outlines policy and implementation principles intended to protect the nations groundwater resources.	Requires Federal agencies to take into consideration the effect that water-related projects will have upon fish and withife Requires consultation with Fish and Withife Service and the State to develop measures to prevent, mitugate, or compensate for project related losses to fish and withife.
Requirement	FEDERAL CWA 4tal, Nertion 4(4(b)(t) Guidelines for Speedication of Disposal Sites for Diedged of Fill Material 40 CFR Part 230	FLDERAL-Groundwater Frotection Situtegy	FEDERAL-16 USC 661 et seq. Fish and Wildnie Coordination Act
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ARARs for Alternative SC-2A - Sediment and Landfill Consolidation; Landfill Capping; On-Site Groundwater Treatment and Disposal for Construction Dewatering LF-5, Pease AFB, NH (Continued)

Media	Requirement	Requirement Synopsis	Action To Be Taken To Attain Requirements	Status
Wetlands, Rivers	STATE-RSA 485:A-17 NH Admin. Code Env- Ws 415, Rules Relative to Prevention of Pollution from Dredging, Filling, Mining, Transporting, Construction	Establish criteria for conducting any activity in or near state surface waters which significantly alters terrain or may otherwise adversely affect water quality, impede natural runoff or create unnatural runoff. Activities within the scope of these provisions include excavation, dredging, filling, mining and grading of topsoil in or near wetland areas.	Sediment excavation plans and cap installation will meet substantive requirements of these NHDES rules prior to initiation.	Applicable
Wetlands, Rivers	STATE-RSA 482-A, NH Admin. Code Env-Wt 300, 400, 600, New Hampshire Criteria and Conditions for Fill and Dredging in Wetlands	Regulate filling and other activities in or adjacent to wetlands, and establish criteria for the protection of wetlands from adverse impacts on fish, wildlife, commerce and public recreation.	Proposed work in the wetlands in and adjacent to the Site 5 Landfill will be reviewed by the Wetlands Board and will comply with state wetland protection requirements.	Applicable
Groundwater	ACTION SPECIFIC			
	FFI)UERAL_RC:RA 40 CFR Sections 264.90 - 264.101 (Subpart F). Releases from Solid Waste Management Units. Identifies procedures to be followed to ensure that groundwater standards are met.	General facility requirements for groundwater monitoring at affected facilities and general requirements for corrective action programs if required at regulated facilities.	Groundwater monitoring will be conducted in accordance with these requirements. See Appendix F (12- 94).	Relevant & Appropriate
	FIBDHRAL-RCRA 40 CFR Sections 264.110- 264.120 (Subpart G) Closure and Post Closure Disposal Units - Requirements for closing the landfill and routine monitoring of the groundwater around the landfill for a period of up to 30 years after closure of the landfill.	Owners or operators of a landfill must develop and submit plans which identify the activities which will be performed to close (i.e., cap) the landfill and the activities which will be conducted during the post closure period.	The landfill will be closed in manner consistent with these regulations.	Relevapt & Appropriate

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ARARs for Alternative SC-2A - Sediment and Landfill Consolidation; Landfill Capping; On-Site Groundwater Treatment and Disposal for Construction Dewatering LF-5, Pease AFB, NH (Continued)

Media	Requirement	Requirement Synopsis	Action To Be Taken To Attain Requirements	Status
	FEDERAL-RCRA 40 CFR Part 264:30-37 (Subpart C) Preparedness and Prevention	Identifice requirements which must be met during design, construction, and operation of TSD facilities to minimize possibility of fires, explosions or unplanned releases of waste.	Activities such as on-site recontouring, cap construction and design, construction, and opcration of an on-site groundwater treatment system will comply with all portions of this requirement.	Rclevant & Appropriate
	HildERAL-RCKA 40 CFR Part 264 50-264.56 (Subpart D) Contingency Plan and Emergency Procedures	Identifies the requirements which must be addressed in a contingency plan. Bach TSD facility must have a contingency plan which identifies all procedures to be followed in the event of fire, explosion or a planned release from a facility.	Construction and operation of an on-site groundwater treatment system will comply with all portions of this requirement.	Refevant & Appropriate
Hazardous Waste	FEDERAL-RCRA 40 CFR Sections 264.190-198 (Subpart J) Requirements for the design, installation and operation of any tanks or tank systems which are used to store or treat hazardous liquids or studges.	Tanks or tank systems which are to be used to temporarily store hazardous liquids or as part of a treatment system for hazardous liquids or sludges must be designed, installed and operated in accordance with the RCRA standards.	Tanks used in the on-site groundwater treatment system will comply with these regulations.	Applicable
Hazardous Waste	FiEIDERAL-RCRA 40 CFR 264.170-178 (Subpart I), Use and Management of Containers	Contains requirements for use and management of containers holding hazardous substances.	Any containers which are uncovered by recontouring will meet the requirements of this regulation. Any containers used to store treatment sludges, "hot spot" waste, or treatment filters will also meet these requirements.	Applicable
Soils, Sediments	FEDERAL-RCRA 40 CFR Sections 264.250- 264.259 (Subpart L)	General design and operation requirements for temporary storage of hazardous soils. Locations must have an impermeable liner and materials stored in piles must be free of standing liquid.	Waste piles used for temporary storage of excavated landfill debris or sediment that are not located on the existing landfill will comply with these requirements.	Applicable

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ARARs for Alternative SC-2A - Sediment and Landfill Consolidation; Landfill Capping; On-Site Groundwater Treatment and Disposal for Construction Dewatering LF-5, Pease AFB, NH (Continued)

Media	Requirement	Requirement Synopsis	Action To Be Taken To Attain Requirements	Status
Air	FEDERAL-RCRA 40 CFR Part 264, Appendix BB	Contains air pollutant emission standards for equipment leaks at hazardous waste treatment, storage and disposal facilitics (ISDFs). Contains design specifications and requirements for monitoring for leak detection. It is applicable to equipment that contains or contacts hazardous wastes with organic concentrations of at least 10 per cent by weight, and relevant and appropriate if less than 10 percent.	Equipment used in remedial activities will meet the design specifications, and will be monitored for leaks.	Applicable, or relevant and appropriate depending on total organics concentration
Air	FEIDERAL-RCRA 40 CFR Part 264, Appendix CCproposed	Contains proposed air pollutant emission standards for owners and operators of TSDFs using tanks, surface impoundments and containers to manage hazardous wastes. Specific organic emissions controls would have to be installed if volatile organic concentrations equal or are greater than 500 ppmw.	Required emissions controls will be installed.	TBC
Air	FEDERAL-RCRA 40 CFR 264.251(j) (Subparts L) and 40 CFR 264.301(j) (Subpart N)	Contains design and operating requirements for waste piles and landfills.	If waste piles or the landfill contains particulate matter that may be subject to wind dispersal, it will be covered or otherwise managed to control wind dispersal.	Applicable
Air	FEDERAL-Clean Air Act 40 CFR Part 60, (Subpart WWWproposed), Performance Standards for nonmethane organic compounds (NMOCs) emissions.	Contains proposed performance standard for NMOC emissions from landfill gases at new municipal solid waste landfills. A control device would be used to reduce the NMOCs in the collected gas by 98 weight percent.	The requirements of this proposed regulation will be met for NMOCs at Landful 5.	100

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ARARs for Alternative SC-2A - Sediment and Landfill Consolidation; Landfill Capping; On-Site Groundwater Treatment and Disposal for Construction Dewatering LF-5, Pease AFB, NH (Continued)

			Action To Be Taken To	
Media	Requirement	Requirement Synopsis	Attain Requirements	Status
Water	FEDERAL-CWA 40 CFR Part 403 EPA Pretreatment Standards	Standards to be followed in establishing pretreatment effuent discharge limits for pollutants which will be discharged to a publicly owned treatment works.	Discharge to wastewater treatment plant will meet the pretreatment requirements of the Clean Water Act.	Applicable
Ilazardous Waste	CERCLA Off-Site Disposal Policy - OSWER Directive 9834.11, 11/13/87	This policy requires off-site receiving facility to be in compliance with all permits and with applicable state and federal requirements.	The off-site receiving facility will have to be licensed and in compliance with permits and with applicable state and federal requirements before any material from Landfill 5 is taken off-site.	TBC
Hazardous Waste	STATE-NH Admin. Code Env-Wm 400-404 Identification and Listing of Hazardous Waste	Requirements for the identification and listing of hazardous waste.	Residue from groundwater treatment will be analyzed and identified to determine if it is hazardous prior to any action that involves treatment or disposal.	Applicable
Hazardous Waste	STATE-NH Admin. Code Env 353, 701-705, 707, 708, 709 Standards for Owners and Operators of Hazardous Waste Facilities	General requirements for owners or operators of hazardous waste sites or treatment facilities, including closure of hazardous waste facilities.	All remedial activities will comply with the substantive provision of state hazardous waste regulations. If any state standard under these regulations is more stringent than RCRA standard, then the more stringent state standard will control. Since these state regulations address and incorporate by reference many of the RCRA hazardous waste regulations, see the actions to be taken under specific RC:RA regulations listed above.	Relevant & Applicable

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ARARs for Alternative SC-2A - Sediment and Landfill Consolidation; Landfill Capping; On-Site Groundwater Treatment and Disposal for Construction Dewatering LF-5, Pease AFB, NH (Continued)

Mcdia	Requirement	Requirement Synopsis	Action To Be Taken To Attain Requirements	Status
Water	STATE-NII Admin. Code Env-Ws 900 Part 904.07 Pretreatment Standards	This regulation establishes guidelines for those wastes which are prohibited from being introduced to a publicly owned treatment works (POTW). Sewer use ordinances passed by the town owning the POTW may contain standards equal to or more stringent than Env- Ws 904.07. RSA 485-A:5, IV authorizes the standards be previously approved by the state.	Remedial activities discharging to wastewater treatment plant must comply with pretreatment standards.	Applicable
	STATE-RSA 495-A:17 and NH Admin. Code Env-Ws 415 Terrain Alteration	Establishes criteria to control crosion and run- off for any activity that significantly alters the terrain.	Sediment excavation and cap installation will comply with these requirements. Such actions will be coordinated with the NHDBS.	Applicable
Air	SI'ATE-NII Admin. Code l'inv-A 1300 Toxic Air Pollutants	Established Ambient Air Limits (AALs) to protect the public from concentrations of pollutants in ambient air that may cause adverse health effects.	Release of contaminants to the air from any on-site remedial activities will not result in exceedence of the respective AAL, if one exists. Emissions from the landfills passive gas collection system are not expected to result in excedence of these standards. Proposed air emissions will be coordinated with the Air Resources Division.	Applicable

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ARARs for Alternative SC-2A - Sediment and Landfill Consolidation; Landfill Capping; On-Site Groundwater Treatment and Disposal for Construction Dewatering LF-5, Pease AFB, NH (Continued)

Mcdia	Requirement	Requirement Synopsis	Action To Be Taken To Attain Requirements	Status
Air	STATR-NH Admin. Code Env-A 300 Ambient Air Quality Standards	Establishes primary and secondary levels for eight air contaminants (particulate matter, sulfur dioxide, carbon monoxide, nitrogen dioxide, ozone, hydrocarbons, fluorides, and lead).	These ambient air levels will be incorporated with Federal NAAOs to establish target levels which may not be exceeded due to air emissions from on-site activitics, including excavation and groundwater treatment. Proposed air emissions will be coordinated with Air Resources Division.	Applicable
Air	STATE-NH Admin. Code Eav-1002 Fugitive Dust Control	Requires precautions to prevent, abate, and control fugitive dust during specified activities, including excavation, construction, and bulk hauling.	Precautions to control fugitive dust emissions will be required during sediment excavation, and cap installation activities. These precautions will be included in the remedial design.	Applicable

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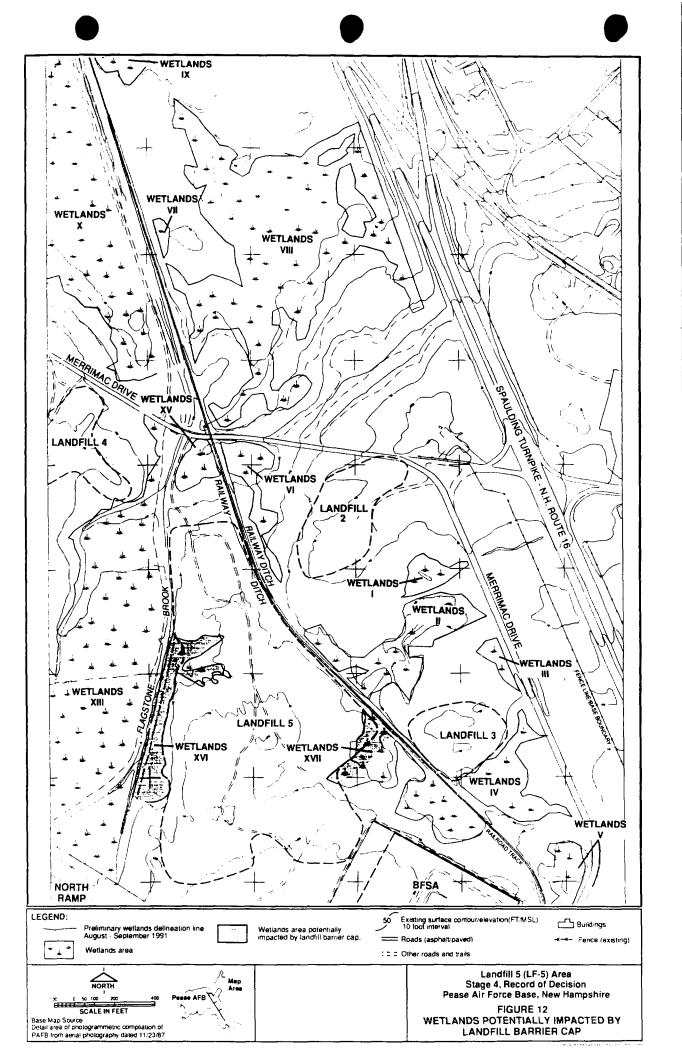
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APPENDIX B DECLARATION OF CONCURRENCE

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TO BE PROVIDED





State of New Hampshire DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095 603-271-3503 FAX 603-271-2867 TDD Access: Relay NH 1-800-735-2964



September 16, 1993

Mr. Alan P. Babbitt Deputy for Hazardous Materials and Waste; Deputy Assistant Secretary of the Air Force (Environment, Safety and Occupational Health) Suite 5C866, Pentagon Washington, D.C. 20330-1660

RE: Site 5 Source Area Record of Decision Pease Air Force Base Superfund Site Pease Air Force Base, New Hampshire

Subject: Declaration of Concurrence

Dear Mr. Babbitt:

The New Hampshire Department of Environmental Services (NHDES) has reviewed the September 1993 Record of Decision (ROD) regarding source control remedial actions at Site 5 - Landfill 5 at the Pease Air Force Base Superfund Site located in Newington and Portsmouth, New Hampshire. Management of contaminant migration will be addressed in the Zone 1 ROD. The source control action consists of a multi-component approach for the containment of contaminant source materials as outlined in the following:.

- I. Excavation and consolidation of selected Railway Ditch sediments on the existing landfill.
- 11. Excavation of soil and solid wastes in Landfills 2 and 4 and consolidation on Landfill 5.
- III. Excavation of soil and solid wastes predicted to be below the water table after capping and placement of excavated material on the existing landfill. Dewatering of areas requiring excavation, on-site treatment of the extracted groundwater and discharge to the local wastewater treatment plant may be necessary. Treated effluent will also be used for site dust control.
- IV. Regrading and capping of the landfill with a composite cap. The cap will consist of the following (from top to bottom):

AIR RESOURCES DIV. 64 No. Maia Street Caller Box 2033 Concord. N.H. 03302-2023 Tel. 603-271-1381 WASTE MANAGEMENT DIV 6 Hazer Drive Concord, N.H. 03501 Tel. 603-271-2900 Pax 603-271-2456 WATER RESOURCES DIV 64 No. Main Street P.O. Box 2001 Concord, N.H. (3302-2008 Tel. 603-271-3406 Pix 003-271-1381 WATER SUPPLY & POLLUTION CONTROL DIV. P.O. Box 95 Concord, N.H. 03302-0095 Tal. 603-271-3903 Fex 603-271-2181

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- A protective cover layer, comprised of a minimum of 36 inches of drainage sand and 6 inches of mulched, seeded topsoil.
- A drainage composite layer, composed of a single-layer high-density polyethylene (HPDE) drainage net with a nonwoven needle-punched geotextile. The drainage composite layer and the underlying geomembrane will be terminated in a perimeter anchor trench fitted with a subdrain of perforated plastic pipe embedded in crushed stone.
- A composite barrier layer, consisting of a clay mat overlain by a 40-mil, very low density polyethylene (VLDPE) geomembrane. The clay mat will be composed of bentonite clay bonded to geomembrane or a geotextile.
- A 12-inch subbase gas ventilation layer with gas vents overlain with a geotextile to serve as a bedding layer for the overlying composite barrier.
- V. Destruction of wetlands will require the construction of appropriate wetlands, based on a functional evaluation and assessment of wetlands prior to commencement of construction activities, in non-wetland areas.
- VI. Placement of institutional controls. Deed restrictions will be imposed to restrict future activities that could violate the integrity of the cap.
- VII. Conducting long-term environmental monitoring to ensure the integrity of the cap is maintained and ensure the waste material remains dry.

Based upon its review, NHDES has determined the source area remedial action is consistent with, or exceeds, applicable or relevant and appropriate state standards. NHDES, as a party to the Pease Air Force Base Federal Facility Agreement and acting as agent for the State of New Hampshire, concurs with the selected remedial action. This concurrence is based upon the State's understanding that:

- A. NHDES will continue to participate in the Pease Air Force Base Federal Facility Agreement and in the review and approval of the Zone 1 ROD, remedial design and action documents, and the following Landfill 5 operational designs and monitoring plans:
 - The capping system;
 - The gas management system and post-closure landfill gas monitoring plan;
 - The landfill settlement monitoring system and monitoring plan;

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- The stormwater management (drainage) system as typically incorporated into landfill closure plans through issuance of a Significant Alteration-of-Terrain Permit;
- The groundwater and surface water monitoring system;
- Long-term operation and maintenance plan; and
- Post closure access control systems.
- The purpose of the NHDES' closure standards is to ensure, "...all facilities shall be Β. closed in a manner that does not endanger public health or adversely affect the environment and which minimizes the potential for accidents that could lead to personal injury or property damage" (Env-Wm 312.01). NHDES' Landfill Capping System Standards (Env-Wm 2505.10) require landfill capping systems be designed to, "...reduce leachate generation by limiting to the extent practicable precipitation and surface water infiltration of the waste, through placement of low-permeability cover materials over the landfilled areas". The low permeability barrier shall, "minimize the infiltration of water into underlying wastes so as to limit continued leachate production and the associated adverse impacts to the quality of groundwater and surface waters; and consist of a geomembrane with a minimum thickness of 40 mils or a low permeability soil, or admixture". NHDES' solid waste closure requirements are primarily performance based and as such, provide a degree of flexibility in allowing capping systems which will provide functionally equivalent protection of human health and the environment.

The composite cap, specified by the USEPA, is a RCRA Subtitle C (hazardous waste) type closure cap which exceeds the specifications used at most municipal solid waste landfills (RCRA Subtitle D) in New Hampshire. Although RCRA C type wastes were found within a portion of the landfill during Stage 2 investigations, a drum removal action was completed in January of 1990. Subsequent test pit excavations indicate Landfill 5 is primarily a solid waste landfill which contains some hazardous waste constituents typically found in a municipal solid waste landfill.

The environmental impact from Landfill 5 wastes is similar to the impact associated with a typical municipal solid waste landfill and would otherwise be closed under the NHDES' solid waste regulations.

C. The excavation and subsequent consolidation of soil and solid waste, in order to remove waste from contact with groundwater, is an accepted source control action. The discharge of treated groundwater, extracted during excavation dewatering activities, from a mobile on-site treatment unit to the base sewer will require the development of discharge limits in coordination with the City of Portsmouth (operator of the base wastewater treatment plant) in order to ensure

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compliance with the existing National Pollution Discharge Elimination System permit, pretreatment regulations and water pollution control laws.

- D. Any wetlands adversely impacted by the source control action will be restored, subject to the provisions of RSA 482-A and Env-Wt 100 through Wt 800.
- E. The Pease Development Authority (PDA) plans to construct an access road to the North Ramp, adjacent to Landfill 5. The Air Force and the PDA will coordinate the consolidation and the design and construction of the landfill cap and access road to ensure the integrity of the cap and capping systems.
- F. Long-term monitoring will be necessary in order to determine the effectiveness of the source control action. Long-term monitoring of the management of contaminants in groundwater will be addressed in the Zone 1 ROD. The frequency and location of water quality monitoring is determined on a site specific basis and is typically required tri-annually until a baseline condition is established. A comprehensive, detailed review will be conducted by the Air Force, the USEPA and the NHDES within five years after remediation to ensure the remedy provided adequate protection of human health and the environment.

Sincerely,

Robert W. Varney Commissioner

cc:

 Philip J. O'Brien, Ph.D., Director, NHDES-WMD Carl W. Baxter, P.E., NHDES-WMEB
 Richard H. Pease, P.E., NHDES-WMEB
 Martha A. Moore, Esq., NHDOJ-PDA
 Michael J. Daly, EPA
 Arthur L. Ditto, P.E., AFBDA
 James Snyder, AFCEE

APPENDIX C

RESPONSIVENESS SUMMARY

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FIRST COMMENT PERIOD

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RESPONSIVENESS SUMMARY

OVERVIEW

At the time of the public comment period, the U.S. Air Force had selected a preferred alternative for a resource area action at Landfill 5 at Pease AFB. This preferred alternative selection was made in conjunction with USEPA Region 1 and NHDES. The preferred alternative involves the excavation and consolidation of sediments adjacent to LF-5 that contain contaminants and concentrations exceeding clean-up goals, excavation of landfill debris that still would be in contact with groundwater after capping, and capping the landfill with a composite barrier cap.

The sections below describe the background of community involvement with Landfill 5 activities and the U. S. Air Force's response to both written and verbal comments received during the Landfill 5 Proposed Plan Public Comment Period of January 14, 1993 to February 14, 1993.

BACKGROUND ON COMMUNITY INVOLVEMENT

Prior to the public comment period for the Landfill 5 Proposed Plan, there were two presentations to the public, one on November 14, 1991, and one on January 12, 1993, regarding RI/FS activities at Pease AFB. Additionally, a presentation of the Landfill 5 Proposed Plan was made to the Pease AFB Technical Review Committee (TRC) on October 27, 1992. Comments and suggestions made by the TRC members were incorporated into the Landfill 5 Proposed Plan prior to issuance to the public. In January 1993 a Landfill Proposed Plan Fact Sheet was mailed to the general public, using the Pease Community Relations Plan mailing list. Newspaper announcements were placed in two local newspapers in January 1993 prior to the beginning of the public comment period and additional announcements were published prior to the public hearing date of January 27, 1993.

SUMMARY OF COMMENTS RECEIVED DURING THE COMMENT PERIOD AND AIR FORCE RESPONSES

During the public comment period, written comments were received from two citizen groups. The majority of the comments on the Landfill 5 Proposed Plan were received at the public hearing held on January 27, 1993. Comments received during the comment period are summarized below along with the Air Force response to each comment. A copy of the public hearing transcript is available for viewing, along with the written comment received on the Landfill 5 Proposed Plan at the Pease AFB Information Repository located at Building 43 on Pease AFB.

1. Comment (written): SCOPE concurs with the Air Force's selection of Alternative 2A for source control at Landfill 5.

Response: The Air Force acknowledges SCOPE's concurrence.

- 2. Comment (written): SCOPE views the preferred alternative as a containment of sediment and landfill debris and not necessarily a cleanup of this material.
 - Response: The Air Force agrees that capping a landfill is not a "cleanup" in the true sense of the term. However, the Air Force considers the remedial action to be taken to be consistent with EPA guidelines for landfills. Reference EPA guidance document, EPA/540/P-91/001, "Conducting Remedial Investigations/Feasibility Studies for CERCLA Municipal Landfill Sites." In the future the Air Force will be more sensitive to the terminology it uses in labelling remedial activities.
- 3. Comment (written): Because of the magnitude of the cap, 23 acres, SCOPE wishes to voice its concerns as to the amount of land being rendered unusable with the capping of the site. Before the capping of Landfill 5, SCOPE strongly urges the Air Force, EPA, and NHDES to consider consolidating other landfills into Landfill 5.
 - Response: In response to this comment and other comments of similar nature, the Air Force has initiated action to consolidate Landfills 2 and 4 into Landfill 5 prior to the capping of Landfill 5. This proposed action is part of the Landfill 5 Record of Decision (ROD). Interim decision documents will be issued for Landfills 2 and 4 prior to actually initiating the consolidation activities.
- 4. Comment (written) SCOPE feels that the containment of Landfill 5 should be done in such a way that the capping will contain the site's contaminated material, yet do so in such a way as to take out of service as little land as possible.
 - Response: As part of the design process, the Air Force will take measures to ensure the cap will contain all of the contaminated material, but be done in such a way as to minimize the surface area needing to be capped. To facilitate this, the Air Force has already performed additional test pits to exactly pinpoint the current landfill edges. This information will also be used to determine if it is practicable to pull the landfill edges in, thereby reducing the surface area to be capped.

- 5. Comment (written) Sufficient safeguards should be instituted to ensure that the cap will be protective over the long haul (30 years plus), and that conditions monitored appropriately so that any migration of contaminants can be detected.
 - Response: As part of the remedial action for the capping of Landfill 5, the Air Force must develop a long term monitoring (LTM) plan. This is done as part of the cap design process. This LTM plan will be structured to provide monitoring points that will measure the cap's performance and protectiveness for the life of the cap (30 years plus). Additionally, the parties to the Pease Federal Facilities Agreement (Air Force, EPA and NHDES) will review the Landfill 5 remedial action every five years to ensure that human health and the environment are being protected. Reference Section 28 of the Pease Federal Facilities Agreement.
- 6. Comment (written): In general, the Sierra Club considers the proposed remediation effort at the site 5 location Pease Air Force Base to be an acceptable solution. However, there are several aspects of the remediation effort that we believe need to be addressed.
 - Response: The Air Force acknowledges Sierra Club, NH Chapter's, concurrence. Responses to items raised by the Sierra Club are made further on in this Responsiveness Summary.
- 7. Comment (written): It shall be pointed out that this is not a cleanup, but a containment plan.

Response: The Air Force agrees with this statement. Refer to response to Comment #2 for additional information.

8. Comment (written): The plan calls for monitoring of the site for 30 years by the Air Force. Who will become responsible for the site after this period?

Response: The Air Force will retain responsibility for the monitoring after 30 years. The 30-year period is a standard timeframe used for computing the long term maintenance cost associated with the remedial action.

9. Comment (written): What will be the effects of lowering the water table during excavation of the landfill on the local wetlands and any flora/fauna that depend on them.

Response: Preliminary data indicates that the impact during construction will be minimal. However, during the design of the landfill cap, the Air Force will be required to do a functional use evaluation of the wetlands around Landfill 5 and determine what impact might occur at these wetlands. The design will include the appropriate mitigation measures necessary to protect these wetlands during construction of the LF-5 cap.

10. Comment (written): One of the most crucial aspects of this remediation is the determination of the local water table. Any waste that comes into contact with groundwater will become mobilized. While a two-foot layer of fill will be placed above the maximum level attained during this time, the probability that this level will not be exceeded during the lifetime of this landfill has not been determined as far as we know. We feel that a more thorough study of this variable is warranted.

Response: This is a valid concern. The information presented in the Feasibility Study on this subject is based upon preliminary calculations. As part of the design process, more detailed studies in this area will be conducted. EPA and NHDES will provide oversight in the design process. This issue will be a priority item, as it has already been with EPA and NHDES during the conceptual design process.

11. Comment (written): We are genuinely concerned with the independent manner with which each site on the former air base is being treated. Consolidation of various sites might prove to be a better method of containing the contamination since it would allow more economical use of the available land.

Response: The Air Force is also concerned with this issue and is planning to coordinate remedial action between sites to the maximum extent possible. This fact is evidenced by the recent grouping of sites into zones, where a remedial action for a zone would cover numerous sites within the zone. More closely related to the proposed remedial actions at Landfill 5, the Air Force is initiating steps to consolidate Landfills 2 and 4 into Landfill 5. See response to Comment #3 for additional information.

12. Comment (written): We would like to request that a hearing be held once a final decision is made on the remediation plan for site 5.

Response: The next step in the Landfill 5 process is for the Air Force to issue

its Record of Decision or ROD, after acceptance by EPA and NHDES. The ROD will lay out the final decision as to the action to be taken at Landfill 5. A public meeting can be scheduled at that time to review the decision made in the Landfill 5 ROD. 13. Comment (written): We would also hope that as the other sites on the base are cleaned up, the public will be informed and allowed to be heard. Response: The Air Force is committed to a pro-active community relations program. The Air Force will hold public meetings and hearings at important stages in the process and at other time periods as requested by the public. Additionally, the Air Force will continue to issue "Fact Sheets" providing the general public with timely information about the status and upcoming activities in the Air Force's Installation Restoration Program. 14. Comment (Verbal): I still have some very grave concerns on Flagstone's Ditch, Brook. You say you're going to be discharging this water, correct? Now, will this be going, this supposedly clean discharge water, going into Flagstone Brook? And I don't want to see the water going in there. Response: The LF-5 Proposed Plan states that groundwater pumping may be required during the process of excavation of refuse below the water table. The Proposed Plan also states that any groundwater pumped from LF-5 during excavation would first be treated to meet site-specific groundwater treatment objectives, then discharged to Flagstone's Brook. The NHDES, in their review of the LF-5 Proposed Plan, raised similar concerns about discharge to surface water bodies, i.e., Flagstone's Brook. Although the discharge of treated water to Flagstone's Brook is an option, the Air Force has decided that if it becomes necessary to pump groundwater during the excava-tion, groundwater will be discharged to the sanitary sewer after treatment. SCOPE wishes to voice its concerns as to the amount of land being 15. Comment (Verbal): rendered unusable with the capping of this site. SCOPE strongly urges the Air Force, the EPA, and NHDES to consider consolidating other landfills into Landfill 5. Response: The Air Force has taken this request into consideration and, as a result, will be including the consolidation of Landfills 2 and 4 into Landfill 5 as part of the Record of Decision for Landfill 5. Also see response to Comment #3 for additional information.

16. Comment (Verbal): SCOPE feels that containment of LF-5 be done in such a way that capping will contain the site's contaminated material, yet do so in such a way as to take out of service as liftle land as possible.

Response: See response to Comment #4.

17. Comment (Verbal): Sufficient safeguards should be instituted to ensure that the cap will be protective over the long run, 30 years plus, and that conditions are monitored appropriately so that any migration of contaminants can be detected.

Response: See response to Comment #5.

- 18. Comment (Verbal): One concern that I would like to reinforce from a previous comment is the concern I have about the cleanup being done in stages. I think we have to take a look at the big picture; we don't want a lot of capped, 23-acre grassy areas on the base.
 - Response: As part of the zone concept for grouping sites by areas, the Air Force will be able to implement more area-wide efficient remedial actions. Landfills 2 and 4, which are in the same Zone as LF-5 (Zone 1), will be consolidated into LF-5. This consolidation will result in approximately 12 acres being made available for future use. This "big picture" look will continue throughout the remedial action decision-making process. Public input will play a continued role in this decision making process.
- 19. Comment (Verbal): I'd like to take you 30 years from now. We will still have all of this hazardous waste. I would like to pose the question, what then? I'd like to know, 30 years from now, do we do this all again; do we say, now, what do we do with this pile of waste.
 - Response: The 30-year time period referenced in the Proposed Plan is a standard time period used for computing the long term cost associated with the remedial action. In reality, under today's requirements, the Air Force will remain responsible for management of the waste for as long as it remains in place, which could be well past the 30-year period mentioned in the Proposed Plan.
- 20. Comment (Verbal): I would like to ask if this area can ever be used for any type of recreational area?

- Response: The capped area can be used for open space type activities. These may include a wildlife area, park, running course, or a possible lay down storage area. The activity type-must be such that it doesn't compromise the cap's integrity.
- 21. Comment (Verbal): I'd like to know what will happen if we have settling within the landfill. And, can it be possible that the cap could be damaged by that type of settling, and how will that be addressed over the long haul?
 - Response: One aspect of the capping process is to compact the refuse and fill material used to shape the landfill shape as much as possible to minimize the potential for settlement. The landfill monitoring program requires that the cap's integrity be monitored once it is in place. Any areas that fail or become damaged as a result of settlement will have to be repaired by the Air Force.
- 22. Comment (Verbal): If you say you're going to clean it up, you should clean it up. If you have no intention to clean it up, you shouldn't tell people that you are going to clean it up.
 - Response: The term "clean up" as it applies to landfills is a misnomer. The correct term for actions typically taken at landfills is containment. See response to Comment #2 for additional information.
- 23. Comment (Verbal): Certainly there must be other actions that can be contemplated that would be clean-up actions. I don't know how everything got limited to the point that all that can happen is consolidate the waste in one spot and then leave it there.
 - Response: The feasibility study process requires that a screening process be used to develop a list of remedial action alternatives to be considered for a site. This screening process occurs many months before a Proposed Plan is issued and may initially start with 15 to 20 various combinations of potential remedial action options. Landfills present a unique issue for the alternative selection process in that there are only so many things that can be done with them. This fact is reflected in EPA guidance document for "Conducting Remedial Investigations/Feasibility Studies for CERCLA Municipal Landfill Sites." The end result for landfills is usually two options, dig it up or leave in place. Depending on the size, digging it up usually is cost prohibitive.

24. Comment (Verbal): What is meant by potential on-site dewatering treatments? Other alternatives they'd leave out the word "potential," as if it would be on-site cleanup. So what is the difference between the two?

Response: LF-5 currently has refuse that is below the existing water table. After capping there will still be refuse below the groundwater table. One of the State requirements for landfill closure is that refuse not remain in contact with groundwater. This requirement can be met in one of two ways: excavation of refuse that would be below the groundwater table, or lowering the groundwater table by continuous pumping. Alternative 4D for LF-5 proposes to remove refuse in contact with groundwater by excavation. As part of the excavation process it may become necessary to dewater during the excavation process. This is where the "potential" for dewatering occurs. Alternative 3A for LF-5 proposes to remove refuse in contact with groundwater by lowering the groundwater table by continuous pumping; this is a long term action. For Alternative 3A, dewatering is a reality; for Alternative 4D, dewatering may only need to occur for a short period to time during the excavation process. This explains why in one place in the LF-5 Proposed Plan it talks about potential dewatering, and in another place states dewatering will occur.

25. Comment (Verbal): There's no indication, after 30 years, what's going to happen, who owns the mess, what's the liability for the mess.

Response: Under today's regulations, as long as the waste remains in place, the Air Force will be responsible for managing it, regardless of the time period involved.

- 26. Comment (Verbal): The base has been careful to say that there might not be any town liability or Pease Authority liability for cleanup, but what about the private citizens and the businesses that built around these different sites? Does any of that liability carry on to them?
 - Response:The Air Force remains liable for the waste problems it generated.This applies to known waste problems, or any future problems that
may be discovered that are attributable to Air Force activities.
- 27. Comment (Verbal): The format that you have here tonight is kind of depressing, because I can bitch and complain at you but no one is going to talk back to me.

	Response:	Typically, public hearings are a one-way communication process. However, the Pease AFB environmental coordinator decided to include some general verbal response to comments at the end of the formal comment period and open the hearing up for general discussion. For the LF-5 hearing; EPA and NHDES personnel also participated in this discussion period, as documented in the hearing transcript. This format will continue in future public hearings.
28.	Comment (Verbal):	I'm concerned about potential damage to nearby wetlands.
	Response:	The Air Force must take into account the impacts or potential impacts to wetlands as part of the Remedial Action process and implement appropriate mitigation measures. See response to Comment #9 for additional information.
29 .	Comment (Verbal):	I'd like to request a public hearing be given to discuss those plans (LF-5 Cap Design) and give opportunity to comment on those.
	Response:	A public meeting can be held to discuss the design plans for LF-5 as part of the design evaluation process. See response to Comment #12 for additional information.
30.	Comment (Verbal):	The Air Force has made a statement saying that capping the landfill will permanently immobilize the waste underneath it, and I have some concerns on what happens if the landfill does leak and what will be the time between detection and further containment.
	Response:	Part of the remedial action is to develop and implement a monitoring program to continuously check the status of the landfills. In the unlikely event of a leak occurring, the Air Force will be responsible for taking immediate corrective action. To define "immediate" is not possible as the type of corrective action that may be necessary will govern the response time. However, timely actions will be taken to protect human health and the environment in all cases.
31.	Comment (Verbal):	I believe the Air Force should make a clarification that this is a containment plan and not a clean-up plan.
	Response:	The Air Force agrees that this remedial action is a containment. See responses to Comments 2 and 22 for additional information.

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32. Comment (Verbal):	I want to know if the proposed plan is going to protect human health and the environment.
Response:	The proposed remedial action for LF-5 will be protective of human health and the environment. The Feasibility Study report for LF-5 contains information and data that support this statement.
33. Comment (Verbal):	Why does this have to be such a large area. Is there so much contamination in there that you have to spread it over a 23-acre lot? Can't you bring that any closer together?
Response:	The 23-acre area represents the area where activities occurred while the landfill was operational. It is necessary to cap the total area where landfill activities occurred, otherwise the cap would not preclude water infiltration into the buried refuse. As part of the design process, the Air Force will look into the possibility of pulling the edges of the landfill in as much as practicable. See response to Comment #4 for additional information.
34. Comment (Verbal):	I can't comprehend how there can be a viable plan where you just let it go 30 years and then it's somebody else's problem, and that you don't know what will happen or the EPA doesn't know what will happen (at the end of 30 years).
Response:	The 30-year period referenced in the Proposed Plan is a time used for computing the long-term cost associated with maintenance and monitoring of the landfill and cap. As the regulations are currently structured, the Air Force will still have the responsibility for maintenance and monitoring after 30 years. See response to Comments 5, 8, 19, and 25 for additional information.
35. Comment (Verbal):	Thirty years from now, is the air base going to continue to have responsibility of those 23 acres? Can the PDA say no, we don't want those 23 acres?
Response:	The Air Force will continue to have the responsibility for its waste left in place. The Air Force cannot force property on anybody; there would have to be a mutual agreement between parties if land transfer were to occur.
36. Comment (Verbal):	If you consolidate these landfills, I certainly wouldn't want them all consolidated in the Newington side of what will be this development area over there. So I don't necessarily favor

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consolidating everything into Landfill 5.

- Response: There are two other landfills adjacent to Landfill 5--Landfills 2 and 4. Landfill 2 basically abuts LF-5, and Landfill 4 is within 200-300 feet of LF-5. Actions are being initiated to consolidate Landfills 2 and 4 into LF-5. See responses to Comments 3, 11, and 15 for additional information.
- 37. Comment (Verbal): Clearly, that land is going to have very little value. If somebody wants to develop there and they go to the bank, who's going to lend them money? I mean, the value of that with landfills pock-marked over there goes down drastically. Can you say you don't want the land, that the air base can keep it, so 30 years from now it's not our responsibility or it's not whoever's responsibility?
 - Response: As stated in response to Comment #35, the Air Force cannot force property onto somebody. It is correct to say that landfills will have a negative impact on property value, unless the landfill areas can serve as an open space credit for land development. The concept of landfill consolidating will support land value enhancement. See response to Comments 5, 8, 19, and 25 on the 30-year issue.
- 38. Comment (Verbal): Does the area have to be fenced to preclude anybody from going on it? And one suggestion I would have is to be a little bit more creative with the grading so it doesn't look engineered.
 - Response: It may not be necessary to fence the landfill after capping as long as it can be shown the remedial action will remain protective of human health and the environment. The Air Force is taking steps to design the cap such that it will blend with the surrounding area as much as possible.
- 39. Comment (Verbal): The basic plan of the whole cleanup is based on determination of groundwater level. You said that's based on four years of data; what are the odds that your determination is wrong over, say, a 50- or 100-year period.
 - Response: As part of the design process, the groundwater level will be thoroughly reviewed. This issue will also have strong EPA and NHDES oversight in a design review process. See response to Comment #10 for additional information.

SECOND COMMENT PERIOD

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SUMMARY OF COMMENTS RECEIVED DURING THE SECOND COMMENT PERIOD AND AIR FORCE RESPONSES

The Air Force held a second comment period for a revised Landfill 5 Proposed Plan. This comment period went from July 22 to August 23, 1993. A public hearing was held on August 5, 1993. The most significant change to the Landfill 5 Proposed Plan from the original was the addition of the concept to consolidate Landfills 2 and 4 into Landfill 5 area prior to the capping of Landfill 5. Comments received during the comment period are summarized below along with Air Force responses to each comment. A copy of the public hearing transcript is available for viewing at the Pease AFB Information Repository located at 61 International Drive, Building 43 on Pease AFB.

- 1. Comment (written): I have a question about the decision-making process. At some time during the last four years, a decision was made that the contents of Landfill 5 were going to stay in the Town of Newington, they were going to stay on Pease. And I'm not clear at all how you all came to that decision. I'd be interested to know the process, who made the decision, when it was made, what the criteria were.
 - The process used to make the decision on the preferred alternative Response: is the standard process used for Superfund sites. That includes the Remedial Investigation which determines and defines the problem that needs to be corrected. Next is the Feasibility Study which develops and evaluates potential alternatives that may be used to correct the problem identified in the Remedial Investigation Report. The various alternatives evaluated in the Feasibility Study are put forth in a Proposed Plan which also identifies that Preferred Alternative to be used to correct the problem. The Proposed Plan is not the final decision point, that comes later in the process. The Proposed Plan is presented to the public for comment, for the preferred alternative and all of the alternatives evaluated in the Feasibility Study. Comments received during the public comment period are evaluated and then the final decision is finalized in the Record of Decision. The Air Force, as lead agency, selects the remedial action and the US EPA and State of NH DES concur on the selected remedy. The criteria used to make the selection is what is referred to as the "nine criteria." Seven of them are used during the Feasibility Study evaluation and the last two are used at the time of the Record of Decision. The nine criteria consist of the following:
 - 1. Overall protection of human health and the environment.
 - 2. Compliance with Applicable or Relevant and Appropriate Requirements (ARARs).
 - 3. Long-term effectiveness and permanence.
 - 4. Reduction of toxicity, mobility, or volume.

- 5. Short-term effectiveness.
- 6. Implementability.
- 7. Cost.
- 8. State acceptance.
- 9. Community acceptance.

As stated, above criteria 1 through 7 are evaluated in the Feasibility Study and criteria 8 and 9 are taken into account during the Record of Decision process.

- 2. Comment (verbal): The Federal Government came here 40 years ago, they deposited a lot of hazardous waste, and they're leaving. And I had always assumed and hoped that they would take their waste with them and put is somewhere else. So, I was a little surprised to find out that we have at least 23 acres worth that are going to sit there in perpetuity.
 - The landfilling activities conducted by the Air Force were no Response: different than those used by surrounding communities and practices were those consistent with typical landfilling practices for the time period for which they were conducted. The methods to be used to correct problems at Pease will be consistent with those used by the private sector and municipalities. For landfill, this typically consists of capping and long-term monitoring. For the various landfill sites surrounding Pease AFB there is not discussion of excavation and removal to somewhere else. For Landfills 2 and 4 the Air Force has concluded it to be beneficial to excavate these two landfills and consolidate them into one area, in this case Landfill 5. This reduces the amount of area (approximately 12 acres) that would otherwise have been capped. Additionally, this action is in direct response to public inputs during the initial comment period for the Landfill 5 Proposed Plan in January 1993.
- 3. Comment (verbal): I'd like to know what the consequences are of disturbing Landfills 2 and 4, and if we are, indeed, able to excavate Landfills 2 and 4.
 - Response: Excavation of Landfills 2 and 4 is possible without causing any further environmental related problems. As the refuse placed in Landfills 2 and 4 was mixed with earth fill during placement, the excavation process would be similar to a gravel borrow pit operation. During the excavation and transportation process dust control and spillage control measures will be implemented.
- 4. Comment (verbal): I have some concern about disturbing existing landfills, because it seems to me that it might be better to do nothing at all rather than to cause all of the disruption of the ground in doing that.

	Response:	As stated in response to comment number three above, the Air Force does not expect the excavation of Landfills 2 and 4 to be disruptive or a problem. Additionally, the long-term benefit to excavating Landfills 2 and 4, i.e., opening up 12 acres of land to unrestricted use, outweighs any minor short-term disruptions that might develop.
5.	Comment (verbal):	Many of the residents have come to me and have been very, very concerned about the fact that why can't they just lift this all up and take it away.
	Response:	The Air Force agrees it would be nice if all of the Landfill 5 wastes could just be picked up and made to go away, but that is not practical, realistic, or cost effective. As stated in response to comment number 2, the actions proposed by the Air Force are consistent with remedial action conducted at other landfills with similar problems to that at Landfill 5. Additionally, the actions of the Air Force are consistent to those applied to landfill closures within the State of NH.
6.	Comment (verbal):	Many of the residents want to know what the cost would be to just pick all this mess up, as they have stated in layman's terms to me, pick it up, take it away, and put it someplace else so the land could be clean for them so there could be redevelopment at Pease.
	Response:	The Air Force evaluated, as part of the feasibility study process, the alternative of excavation and incineration of the Landfill 5 waste. The cost of this alternative was estimated at 250 million dollars. Comparing this cost to the construction cost of 14 million dollars for capping Landfill 5 it is quite clear that the excavation and incineration alternative is not reasonable, nor the best expenditure of our tax dollars.
7.	Comment (verbal):	I would like to know, with the consolidation of the two landfills and moving in of the boundaries of Landfill 5, what is the intended height that the cap will be, and how much of a monument to a stock pile of hazardous waste this is going to be above the current drain level, if any.
	Response:	The final shape of the Landfill 5 area after capping will appear as a gentle hill with a slope similar to that of handicap ramps. At its highest point the Landfill 5 cap will be approximately 15 feet above the current highest elevation at Landfill 5. The capped area will not stick out

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like a sore thumb, but rather will blend in with the surrounding areas.

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PENDIX

ADMINISTRATIVE RECORD FILE INDEX

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• NOTE: NO ENTRES IN THIS SECTION V. THIS TIME.

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11.5 Technical Sources

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (11.5) #1 001-022 Trichloroethylene in the Groundwater Supply of Pease Air Force Base Portsmouth. NH U.S. Geological Survey USAF 1982 Technical Source
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#
DOCUMENT NUMBER:	PEA (11.5) #2 001-080
LONG TTILE:	Geology and Groundwater Resources of Southeastern New Hampshire
AUTHOR:	U.S. Geological Survey
RECIPIENT:	USAF
DATE:	1964
TYPE:	Technical Source
SECOND REFERENCE:	None
LOCATION:	Art's Office
	*
DOCUMENT NUMBER	PEA (11.5) #3 001-010
LONG TITLE:	Preliminary Wetland Delineation and Evaluation Report for Pease Air Force Base, NH - Draft
AUTHOR:	The Smart Associates, Environmental Consultants, Inc.
RECIPIENT:	USAF
DATE:	April 1990
TYPE:	Technical Source
SECOND REFERENCE:	None
LOCATION:	Art's Office
	*
DOCUMENT NUMBER:	PEA (11.5) #4 001-222
LONG TITLE:	The Ecology of the Great Bay Estuary, New Hampshire and Maine: An Estuarine Profile and Bibliography
AUTHOR:	Jackson Estuarine Laboratory, Durham, NH
RECIPIENT:	USAF
DATE:	October 1992
TYPE:	Technical Source
SECOND REFERENCE:	None
LOCATION:	Art's Office
	*

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TYPE:CSECOND REFERENCE:NLOCATION:A

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Guidance None Art's Office

DOCUMENT NUMBER: PEA (11.4) #13 001-J.2 LONG TITLE: Report of the Defense Environmental Response Task Force Department of Defense AUTHOR: RECIPIENT: Pease AFB DATE: October 1991 TYPE: Guidance SECOND REFERENCE: None LOCATION: Art's Office

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DOCUMENT NUMBER: PEA (11.4) #14 001-1.5 LONG TITLE: Initiatives for Accelerating Cleanup at BRAC Installations AUTHOR: Department of Defense RECIPIENT: Pease AFB June 1992 DATE: TYPE: Guidance SECOND REFERENCE: None LOCATION: Art's Office

DOCUMENT NUMBER:	PEA (11.4) #15 001-2.9
LONG TTTLE:	CERCLA IAG Workshops
AUTHOR:	USAF
RECIPIENT:	Pease AFB
DATE:	1992
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office

11.7 Correspondence

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (11.7) #1 001-006 "Letter to EPA requesting review and concurrence of risk assessment data and sampling procedure letter report" Department of the Air Force State of New Hampshire 20 March 1991 Letter None ARF #
DOCUMENT NUMBER:	PEA (11.7) #2 001-002
LONG TITLE:	"Letter concerning use of drilling mud"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	Air Force
DATE:	26 December 1990
TYPE:	Letter
SECOND REFERENCE: LOCATION:	None ARF
LOCATION.	#
	"
DOCUMENT NUMBER:	PEA(11.7) #3 001-002
LONG TTTLE:	"Analytical Methods for Pease AFB"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	Air Force
DATE:	23 April 1991
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (11.7) #4 001-001
LONG TTTLE:	Consolidated Background Values Letter Report
AUTHOR:	USAF
RECIPIENT:	Richard Pease, NHDES
	Johanna Hunter, EPA
DATE:	March 9, 1993
TYPE:	Letter Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*

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11.6 Proposed Procedures / Procedures

DOCUMENT NUMBER:	PEA (11.6) #1 001-005
LONG TTTLE:	"Risk Assessment Data Needs and Sampling Procedures Letter Report"
AUTHOR:	Roy F. Weston, Inc
RECIPIENT:	EPA, NHDES
DATE:	8 March 1991
TYPE:	Letter Report
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (11.6) #2 001-051
LONG TITLE:	"Analytical Methods Letter Report" – Supplemental Information to Stage 4 Sampling and Analysis Plan
AUTHOR:	Rov F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	23 April 1991
TYPE:	Letter Report
SECOND REFERENCE:	PEA (3.1)
LOCATION:	ARF
Location	#
	π.
DOCUMENT NUMBER:	PEA (11.6) #3 001-055
LONG TTTLE:	"Protocols for Generation of Baseline Risk Assessments for the Pease AFB Sites - Revised"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	July 1991
TYPE:	Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (11.6) #4 001-002
LONG TITLE:	"Procedures for handling solids and liquids produced during well construction and soil borings at Site 8 investigations"
AUTHOR:	Department of the Air Force
RECIPIENT:	NHDES
DATE:	21 August 1990
TYPE:	Procedures
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (11.6) #5.001.002
LONG TITLE:	PEA (11.6) #5 001-002 "Disposal of Drill Cuttings From Stage 2 and 3 Investigations"
AUTHOR:	Department of the Air Force
RECIPIENT:	NHDES
DATE: TYPE:	14 August 1990 Procedures
SECOND REFERENCE:	
LOCATION:	None ARF
LOCATION.	
	*

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LOCATION:	ARF	
	#	
DOCUMENT NUMBER: LONG TITLE:	PEA (11.4) #7 001-003 "RCRA Facility Assessment Guidance to Installation"	
AUTHOR: RECIPIENT:	Department of the Air Force" See Distribution List	
DATE:	3 August 1988	
TYPE: SECOND REFERENCE:	Guidance None	
LOCATION:	ARF	
	#	
DOCUMENT NUMBER: LONG TITLE:	PEA (11.4) #8 001-003 "Guidance on base map construction and digitization D.O. 006 Pease AFB"	
AUTHOR:	Department of the Air Force"	
RECIPIENT:	Roy F. Weston, Inc.	
DATE:	6 March 1989	
TYPE:	Guidance Document	
SECOND REFERENCE:	None	
LOCATION:	ARF #	
	*	
DOCUMENT NUMBER: LONG TITLE:	PEA (11.4) #9 001-I.3 Handbook to Support the Installation Restoration Program Statements of Work for Remedial Investigation/Feasibility	
	Studies Version 3.0	
AUTHOR:	Air Force Occupational and Environmental Health Laboratory Technical Services Division	
RECIPIENT: DATE:	Pease AFB May 1989	
TYPE:	Handbook	
SECOND REFERENCE:	None	
LOCATION:	Art's Office	
	*	
DOCUMENT NUMBER	PEA (11.4) #10 001-BL3	
LONG TITLE:	United States Air Force Environmental Restoration Program NFRAP Guide: Making, Documenting and Evacuating	
AUTHOR:	No Further Response Action Planned Decisions Final Draft USAF	
RECIPIENT:	CSAF Pease AFB	
DATE:	February 1993	
TYPE:	Guidance	
SECOND REFERENCE:	None	
LOCATION:	Art's Office	
	#	
DOCUMENT NUMBER: LONG TITLE:	PEA (11.4) #11 001-087 Air Form Logistic Command Public Affair: Environmental Guidence	
AUTHOR:	Air Force Logistics Command Public Affairs Environmental Guidance USAF	
RECIPIENT:	Pease AFB	
DATE:	March 31, 1989	
TYPE:	Guidance	
SECOND REFERENCE:	None	
LOCATION:	Art's Office	
#		
DOCUMENT NUMBER	PEA (11.4) #12 001-IX_A1.3	
LONG TITLE:	Recommended Sampling Procedures	
AUTHOR:	Air Force Occupational and Environmental Health Laboratory	
RECIPIENT:	Pease AFB	
DATE:	March 1989	

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11.4 Air Force Guidance

DOCUMENT NUMBER: LONG TTILE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (11.4) #1 001-024 "Ecological Risk Assessment Guidance for Pease AFB, New Hampshire" Mitre Corporation. Civil Systems Division Air Force 20 June 1990 Lette: Report None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (11.4) #2 001-016 "Implementation of Department of Defense (DOD) policy guidance on IRP Policy No1" Department of the Air Force See Distribution List 11 December 1981 Policy/Guidance Document None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (11.4) #3 001-002 "Implementation of DOD policy guidance on Installation Restoration Plan (IRP), Policy No. 1" Department of the Air Force See Distribution List 5 March 1982 Policy/Guidance Document None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (11.4) #4 001-003 "Relationship of the IRP to RCRA enforcement actions Department of the Air Force" See Distribution List 26 December 1985 Policy Document None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (11.4) #5 001-002 "Guidance for Air Force Installation Compliance with Volatile Organic Compound Regulations" Department of the Air Force" See Distribution List 8 October 1986 Guidance Document None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (11.4) #6 001-003 "IRP Decision Documentation Policy" Department of the Air Force" See Distribution List 25 May 1988 Policy Letter None

11.4 Air Force Guidance

TYPE: Guidance SECOND REFERENCE: None LOCATION:

Art's Office

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11.3 State Guidance

* <u>NOTE:</u> Guidar	ice documents listed as bibliographic sources for a document already included in the Administrative Record are not listed
separa	ely in this index.
DOCUMENT NUMBER:	PEA (11.3) #1 001-001
LONG TITLE:	ENC-WS 410 Groundwater Protection Rules
AUTHOR:	NHDES
RECIPIENT:	Art Ditto, AFBDA
DATE:	February 18, 1993
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (11.3) #2 001-B.8
LONG TITLE:	Interim Policy for the Management of Soils Contaminated from Spills/Releases of Virgin Petroleum Products
AUTHOR:	NHDES
RECIPIENT:	USAF
DATE:	September 1991
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	*
DOCUMENT NUMBER:	PEA (11.3) #3 001-048
LONG TITLE:	Groundwater Protection Rules
AUTHOR:	NHDES
RECIPIENT:	USAF
DATE:	February 1993
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#
DOCUMENT NUMBER:	PEA (11.3) #4 001-37.3
LONG TITLE:	New hampshire Rules for the Control of Radiation
AUTHOR:	NHDES
RECIPIENT:	USAF
DATE:	April 1983
TYPE:	Guidance
SECOND REFERENCE	None
LOCATION:	Art's Office
	#
	PEA (11.3) #5 001-C.15
DOCUMENT NUMBER: LONG TITLE:	
AUTHOR:	Guidance Document for the Closure of Solid Waste Landfills in New Hampshire
RECIPIENT:	NHDES USAF
DATE:	May 1990
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#
DOCUMENT NUMBER:	PEA (11.3) #6 001-D.7
LONG TITLE:	Guidebook for Environmental Permits in New Hampshire
AUTHOR:	NHDES
RECIPIENT:	USAF 1002
DATE:	1992

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11.2 EPA Regional Guidance

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11.2 EPA Regional Guidance

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• <u>NOTE:</u> Guidance documents listed as bibliographic sources for a document already included in the Administrative Record are not listed separately in this index.

DOCUMENT NUMBER:	PEA (11.2) #1 001-C.1
LONG TITLE:	Land Disposal Restrictions Summary of Requirements
AUTHOR:	EPA, Region 1
RECIPIENT:	USAF
DATE:	August 1990
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#
DOCUMENT NUMBER:	PEA (11.2) #2 001-107

DOCUMENT NUMBER	$E_{L}(11.2) \# 2.001-107$
LONG TITLE:	Supplemental Risk Assessment Guidance for the Superfund Program
AUTHOR:	EPA, Region 1
RECIPIENT:	USAF
DATE:	June 1989
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office

#

DOCUMENT NUMBER: PEA (11.1) #24 001-111 LONG TITLE: Synopses of Federal Demonstrations of Innovative Site Remediation Technologies AUTHOR: EPA RECIPIENT: USAF May 1991 DATE: TYPE: Guidance SECOND REFERENCE: None LOCATION: Art's Office

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DOCUMENT NUMBER: LONG TITLE:	PEA (11.1) #18 001-021 Documenting No Action, Interim Action, and Contingency Remedy Decisions, OSWER Directive 9355.3-02
AUTHOR:	EPA
RECIPIENT:	USAF
DATE:	Undated
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	*
DOCUMENT NUMBER:	PEA (11.1) #19 001-B.2
LONG TITLE:	Superfund Removal Procedures Action Memorandum Guidance
AUTHOR:	EPA
RECIPIENT:	USAF
DATE:	December 1990
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#
DOCUMENT NUMBER:	PEA (11.1) #20 001-G
LONG TITLE:	RCRA Orientation Manual
AUTHOR:	EPA
RECIPIENT:	USAF
DATE:	1990
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#
DOCUMENT NUMBER:	PEA (11.1) #21 001-295
LONG TITLE:	The Superfund Innovative Technology Evaluation Program: Technology Profiles
AUTHOR:	EPA
RECIPIENT:	USAF
DATE: TYPE:	November 1991
SECOND REFERENCE:	Guidance None
LOCATION:	Art's Office
LOCATION.	#
DOCUMENT NUMBER:	PEA (11.1) #22 001-017
LONG TITLE:	Accessing Federal Data Bases for Contaminated Site Clean-Up Technologies
AUTHOR:	EPA
RECIPIENT:	USAF
DATE:	May 1991
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	*
DOCUMENT NUMBER:	PEA (11.1) #23 001-023
LONG TITLE:	Bibliography of Federal Reports and Publications Describing Alternatives and Innovative Treatment Technologies
	for Corrective Action and Site Remediation
AUTHOR:	EPA
RECIPIENT:	USAF
DATE:	May 1991
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#

LONG TITLE:	Implementing EPA's Groundwater Protection Strategy for the 1990's: Draft Comprehensive State Groundwater
	Protection Program Guidance
AUTHOR:	EPA
RECIPIENT:	USAF
DATE:	1992
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#
DOCUMENT NUMBER	REA (11.1) #12.001.021
DOCUMENT NUMBER:	PEA (11.1) #13 001-021
LONG TITLE:	A Handbook for State Groundwater Managers
AUTHOR:	Office of Water, EPA. Washington, DC
RECIPIENT:	USAF
DATE:	May 1992
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	An's Office
	#
DOCTIVENT NUMBER	PEA (11.1) #14 001-3.40
DOCUMENT NUMBER: LONG TITLE:	
AUTHOR:	Conducting Remedial Investigations/Feasibility Studies for CERCLA Municipal Landfill Sites Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT:	USAF
DATE:	February 1991
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
LOCATION.	#
	7
DOCUMENT NUMBER:	PEA (11.1) #15 001-F.2
LONG TITLE:	Guidance on Preparing Superfund Decision Documents: The Proposed Plan, The Record of Decision, and
	Explanation of Significant Differences, The Record of Decision Amendment
AUTHOR:	Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT:	USAF
DATE:	July 1989
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	An's Office
	#
DOCUMENT NUMBER:	PEA (11.1) #16 001-B.12
LONG TITLE:	Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual (Part A) Interim Final
AUTHOR:	Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT:	USAF
DATE:	December 1989
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#
DOCUMENT NUMBER:	PEA (11.1) #17 001-057
LONG TITLE:	Risk Assessment Guidance for Superfund Volume II: Environmental Evaluation Manual Interim Final
AUTHOR:	Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT:	USAF
DATE:	March 1989
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#

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LONG TITLE:	Preliminary Assessment Guidance Fiscal Year 1988
AUTHOR:	Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT:	USAF
DATE:	January 1988
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#
DOCUMENT NUMBER:	PEA (11.1) #7 001-G.1
LONG TITLE:	Community Relations in Superfund: A Handbook (Interim Version)
AUTHOR:	Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT:	USAF
DATE:	1988
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	*
DOCUMENT NUMBER	PEA (11.1) #8 001-H.6
LONG TITLE:	Summary Report on Issues in Ecological Risk Assessment
AUTHOR:	EPA
RECIPIENT:	USAF
DATE:	February 1991
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	*
DOCUMENT NUMBER:	PEA (11.1) #9 001-127
LONG TITLE:	Technology Screening Guide for Treatment of CERCLA Soils and Sludges
AUTHOR:	EPA
RECIPIENT:	USAF
DATE	September 1988
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#
DOCUMENT NUMBER:	PEA (11.1) #10 001-F.19
LONG TITLE:	Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA – Interim Final
AUTHOR:	Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT:	USAF
DATE:	October 1988
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
20 4 11 0 1 1	#
DOCUMENT NUMBER:	PEA (11.1) #11 001-103
LONG TITLE:	Final Guidance on Administrative Records for Selecting CERCLA Response Actions
AUTHOR:	Office of Solid Waste and Emergency Response, EPA, Washington, DC
RECIPIENT:	USAF
DATE:	1190/91
TYPE:	Guidance
SECOND REFERENCE:	None
LOCATION:	Art's Office
	#
DOCTRENT STR	DEX (11 1) #12 (01 D 2
DOCUMENT NUMBER:	PEA (11.1) #12 001-B.2

11.1 EPA Headquarters Guidance

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• <u>NOTE:</u>	Guidance documents listed as bibliographic sources for a document already included in the Administrative Record are not listed
	separately in this index.
DOCUMENT NUN	
LONG TITLE:	Risk Assessment Issue Paper for Carcinogenicity Characterization for Trichloroethylene (CASRN 79-01-6),
	Tetrachloroethylene (CASRN 127-18-4), and Styrene (CASRN 100-42-5)
AUTHOR:	USEPA
RECIPIENT:	USAF
DATE:	14 July 1992
TYPE:	Guidance
SECOND REFERE	
LOCATION:	ARF
	#
DOCLMENT NUM	ABER: PEA (11.1) #2 001-G.2
LONG TITLE:	Draft Guidance on Preparing Superfund Decision Documents: The Proposed Plan and Record of Decision
AUTHOR:	Office of Emergency & Remedial Response, EPA, Washington, DC
RECIPIENT:	USAF
DATE:	March 1988
TYPE:	Guidance
SECOND REFERE	INCE: None
LOCATION:	An's Office
	*
DOCLMENT NUM	(BER: PEA (11.1) #3 001-B.9
LONG TITLE:	
LUNG MILL	The RPM Primer: An Introductory Guide to the Role and Responsibilities of the Superfund Remedial Project
	Manager
AUTHOR:	Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT:	USAF
DATE:	September 1987
TYPE:	Guidance
SECOND REFERE	NCE: None
LOCATION:	Art's Office
Locamon	
	*
DOCUMENT NUM	IBER: PEA (11.1) #4 001-11.1
LONG TITLE:	CERCLA Site Discrepancies to POTWs Guidance Manual
AUTHOR:	Office of Emergency and Remedial Response, EPA, Washington, DC
RECIPIENT:	USAF
DATE:	August 1990
TYPE:	Guidance
SECOND REFERE	
LOCATION:	Art's Office
	*
DOCUMENT NUM	IBER: PEA (11.1) #5 001-041
LONG TITLE:	Framework for Ecological Risk Assessment
AUTHOR:	EPA
RECIPIENT:	USAF
DATE:	February 1992
TYPE:	Guidance
SECOND REFEREN	NCE: None
LOCATION:	Art's Office
	#
DOCUMENT NUM	BER: PEA (11.1) #6 001-E.1

11.1 EPA Headquarters Guidance

RECIPIENT:	Arthur Ditto, Pease AFB
DATE:	24 May 1993
TYPE:	Letter
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (10.10) #25 001-004
LONG TTTLE:	Review of the Air Force Installation Restoration Program. Draft Remedial Investigation Report, Zone 4, Pease AFB, March 1993
AUTHOR:	Mike Daly, EPA Region 1
RECIPIENT:	Arthur Ditto, Pease AFB
DATE:	25 May 1993
TYPE:	Faxed Letter
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (10.10) #26 001-006
LONG TITLE:	Review of the Air Force Installation Restoration Program. Initial Screening of Alternatives (ISA) Report, Zone 4.
	Pease AFB, April 1993
AUTHOR:	Mike Daly, EPA Region 1
RECIPIENT:	Arthur Ditto, Pease AFB
DATE:	25 May 1993
TYPE:	Faxed Letter
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.10) #27 001-015
LONG TITLE:	Review of the Air Force Installation Restoration Program, Draft Remedial Investigation Report, Zone 3, Pease AFB,
	April 1993
AUTHOR:	Mike Daly, EPA Region 1
RECIPIENT:	Arthur Ditto, Pease AFB
DATE	26 May 1993
TYPE:	Faxed Letter
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
DOCUMENT NUMBER:	PEA (10.10) #28 001-004
LONG TITLE:	Review of the Air Force Installation Restoration Program, Draft McIntyre Brook/Lower Newfields Ditch Remedial
	Investigation/Feasibility Study, April 1993
AUTHOR:	Mike Daly, EPA Region 1
RECIPIENT:	Arthur Ditto, Pease AFB
DATE:	26 May 1993
TYPE:	Faxed Letter
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
*	

RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Arthur Ditto, Pease AFB 29 April 1993 Letter Zone 4 ARF
	#
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.10) #19 001-005 Draft Record of Decision for Landfill 5 Source Area Remedial Action, April 1993 – Review Comments Richard Pease, NHDES Arthur Ditto, Pease AFB 11 May 1993 Letter LF-5 ARF
	*
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.10) #20 001-002 Pease AFB Review of Landfill 5 Draft Record of Decision Johanna Hunter, EPA Region 1 Arthur Ditto, Pease AFB 13 May 1993 Faxed Letter LF-5 ARF #
DOCTIVEST NT MEED.	DEA (10.10) #31.001.013
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.10) #21 001-012 Proposed Plan for IRP Site 8, Fire Department Training Area 2, March 1993, DRAFT – Review Comments Richard Pease, NHDES Arthur Ditto, Pease AFB 14 May 1993 Letter Site 8 ARF #
DOCUMENT NUMBER:	PEA (10.10) #22 001-011
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Pease AFB Zone 3 Remedial Investigation Report DRAFT, April 1993 – Review Comments Richard Pease, NHDES Arthur Ditto, Pease AFB 20 May 1993 Letter Zone 3 ARF
	#
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.10) #23 001-008 McIntyre Brook/Lower Newfields Ditch RI/FS DRAFT, April 1993 - Review Comments Richard Pease. NHDES Arthur Ditto, Pease AFB 24 May 1993 Letter Zone 3 ARF
	PEA (10.10) #34 001 012
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (10.10) #24 001-013 Zone 4 Initial Screening of Alternatives Report, DRAFT 1993 – Review Comments Richard Pease, NHDES

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5 February 1991 DATE: TYPE: Letter SECOND REFERENCE PEA (3.1); PEA (3.3) LOCATION: ARF DOCUMENT NUMBER: PEA (10.10) #13 001-001 LONG TITLE: Community Relations Plan AUTHOR: USAF **RECIPIENT:** Johanna Hunter, USEPA DATE: 12 April 1991 TYPE: Letter SECOND REFERENCE: PEA (10.2) LOCATION: ARF DOCUMENT NUMBER: PEA (10.10) #14 001-004 Basewide ARARs Pease AFB, NH 03803, January 1993, DRAFT - Review Comments LONG TITLE: AUTHOR: Richard Pease, NHDES Arthur Ditto, Pease AFB RECIPIENT: 1 April 1993 DATE: TYPE: Letter SECOND REFERENCE: PEA (4.1) ARF LOCATION: DOCUMENT NUMBER: PEA (10.10) #15 001-002 Installation Restoration Program, Stage 4, No Further Action Decision Document for IRP Site 11, February 1993 -LONG TITLE: **Review** Comments AUTHOR: Richard Pease, NHDES **RECIPIENT:** Arthur Ditto, Pease AFB DATE: 2 April 1993 TYPE: Letter SECOND REFERENCE: Site 11 ARF LOCATION: PEA (10.10) #16 001-005 DOCUMENT NUMBER: Zone 4 Draft Remedial Investigation Review Comments LONG TITLE: Richard Pease, NHDES AUTHOR: Arthur Ditto, Pease AFB RECIPIENT: DATE: 16 April 1993 TYPE: Letter SECOND REFERENCE: Zone 4 ARF LOCATION: DOCUMENT NUMBER: PEA (10.10) #17 001-010 Zone 5 Initial Screening of Alternatives Report DRAFT March 1993 - Review Comments LONG TTILE: Richard Pease, NHDES AUTHOR: Arthur Ditto, Pease AFB RECIPIENT: 23 April 1993 DATE: TYPE: Letter SECOND REFERENCE: Zone 5 ARF LOCATION: PEA (10.10) #18 001-003 DOCUMENT NUMBER: Zone 4 Draft Remedial Investigation - Review Comments LONG TITLE: Richard Pease, NHDES AUTHOR:

DATE: 11 October 1990 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (10.10) #7 001-001 LONG TITLE: Submittal of Primary Documents (Community Relations Plan) AUTHOR: USAF **RECIPIENT:** Jim Brown, USEPA DATE: 24 October 1990 TYPE: Letter SECOND REFERENCE: PEA (10.2) LOCATION: ARF DOCUMENT NUMBER PEA (10.10) #8 001-001 LONG TITLE: Submittal of Primary Documents (Community Relations Plan) AUTHOR: USAF **RECIPIENT:** Richard Pease, NHDES DATE: 24 October 1990 TYPE: Letter SECOND REFERENCE: PEA (10.2) LOCATION: ARF DOCUMENT NUMBER: PEA (10.10) #9 001-001 LONG TITLE: Community Relations Plan Development Extension AUTHOR: USAF RECIPIENT: Johanna Hunter, USEPA DATE: 17 January 1991 TYPE: Letter SECOND REFERENCE: PEA (10.2) LOCATION: ARF DOCUMENT NUMBER: PEA (10.10) #10 001-001 LONG TITLE: Community Relations Plan Development Extension AUTHOR: USAF **RECIPIENT:** Richard Pease, NHDES DATE: 17 January 1991 TYPE: Letter SECOND REFERENCE: PEA (10.2) LOCATION: ARF DOCUMENT NUMBER: PEA (10.10) #11 001-001 LONG TITLE: Submittal of Draft Final Primary Documents USAF AUTHOR: RECIPIENT: Richard Pease, NHDES DATE: 5 February 1991 TYPE: Letter SECOND REFERENCE: PEA (3.1); PEA (3.3) LOCATION: ARF # DOCUMENT NUMBER: PEA (10.10) #12 001-001 Submittal of Draft Final Primary Documents LONG TITLE: AUTHOR: USAF RECIPIENT: Johanna Hunter, USEPA

10.10 Correspondence

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10.10 Correspondence

DOCUMENT NUMBER:	PEA (10.10) #1 001-001
LONG TITLE:	"Letter regarding concern about the hazardous waste sites at Pease AFB"
AUTHOR:	Gordon J. Humphrey, U.S. Senate
RECIPIENT:	James F. McGovern, Acting Secretary of the Air Force
DATE:	24 March 1989
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.10) #2 001-002
LONG TTTLE:	Letter regarding the migration of Air Force hazardous waste beyond the Pease AFB perimeter
AUTHOR:	Town of Newington
RECIPIENT:	Robert Field, Environmental Cleanup Advisory Committee, Portsmouth, NH
DATE:	11 May 1990
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
Location	#
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DOCTORENT NT NORED.	REA (10.10) #2.001.008
DOCUMENT NUMBER:	PEA (10.10) #3 001-008
LONG TITLE:	Letter regarding groundwater sampling conducted on private property
AUTHOR:	Department of the Air Force
RECIPIENT	Will Gilbert, Newington, NH
DATE:	6 June 1989
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (10.10) #4 001-001
LONG TITLE:	Submittal Letter for Draft Community Relations Plan for the Massachusetts Military Reservation (MMR) on Cape
LONG TTILE:	Submittal Letter for Draft Community Relations Plan for the Massachusetts Military Reservation (MMR) on Cape Cod, Massachusetts
LONG TITLE: AUTHOR:	
	Cod, Massachusetts
AUTHOR:	Cod, Massachusetts Dougias S. Gutro, USEPA
AUTHOR:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden,
AUTHOR: RECIPIENT:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc.
AUTHOR: RECIPIENT: DATE:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990
AUTHOR: RECIPIENT: DATE: TYPE:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF #
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH 27 August 1990
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH 27 August 1990 Letter
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Cod, Massachusetts Dougias S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH 27 August 1990 Letter None
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH 27 August 1990 Letter None ARF
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Cod, Massachusetts Dougias S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH 27 August 1990 Letter None
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH 27 August 1990 Letter None ARF
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden. Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH 27 August 1990 Letter None ARF # PEA (10.10) #6 001-001
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH 27 August 1990 Letter None ARF # PEA (10.10) #6 001-001 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs (Your
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH 27 August 1990 Letter None ARF # PEA (10.10) #6 001-001 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs (Your Letter, August 27, 1990)
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: AUTHOR: RECIPIENT: DATE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Cod, Massachusetts Dougias S. Gutro, USEPA Karen Cowden. Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH 27 August 1990 Letter None ARF # PEA (10.10) #6 001-001 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs (Your Letter, None ARF
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Cod, Massachusetts Douglas S. Gutro, USEPA Karen Cowden, Roy F. Weston, Inc. 19 June 1990 Letter None ARF # PEA (10.10) #5 001-002 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs Merrill S. Hohman, USEPA Col. James R. Wilson Pease AFB, NH 27 August 1990 Letter None ARF # PEA (10.10) #6 001-001 Impact of Base Closure on Personnel Responsible for the Installation Restoration Program and Public Affairs (Your Letter, August 27, 1990)

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• NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

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LOCATION: ARF DOCUMENT NUMBER: PEA (10.6) #13 001-006 Pease Air Force Base Installation Restoration Program Update: Preliminary Assessment/Site Investigation LONG TITLE: AUTHOR: USAF **RECIPIENT:** See Distribution List DATE: January 1993 TYPE: Fact Sheet SECOND REFERENCE: None LOCATION: ARF # DOCUMENT NUMBER PEA (10.6) #14 001-002 LONG TITLE: News Release 93-01- Comment Period Opens for Proposed Plan on Landfill 5 Source Area AUTHOR: USAF **RECIPIENT:** All Local News Media - Radio, Press, TV DATE: 15 January 1993 TYPE: News Release SECOND REFERENCE: PEA (4.3) LOCATION: ARF. IR DOCUMENT NUMBER: PEA (10.6) #15 001-009 LONG TITLE: Proposed Plan for IRP Site 34 (Bldg. 222) Fact Sheet AUTHOR: USAF **RECIPIENT:** See Mailing List DATE: March 1993 TYPE: Fact Sheet SECOND REFERENCE: Site 32/36: Site 34 LOCATION: ARF DOCUMENT NUMBER: PEA (10.6) #16 001-011 LONG TTTLE: Proposed Plan for IRP Site 32/36 (Bldgs. 113/119) Fact Sheet AUTHOR: USAF See Mailing List RECIPIENT: DATE: March 1993 TYPE: Fact Sheet SECOND REFERENCE: Site 34; Site 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (10.6) #17 001-001 LONG TITLE: News Release, Comment Period Opens for IRP Sites 32/36 and 34 AUTHOR: USAF RECIPIENT: Media DATE: 16 March 1993 TYPE: News Release SECOND REFERENCE: Site 32/36; Site 34 LOCATION: ARF # DOCUMENT NUMBER: PEA (10.6) #18 001-008 LONG TITLE: Revised Proposed Plan for Landfill 5 Source Area and the Plan to Consolidate Landfills 2 and 4 Within Landfill 5 AUTHOR: USAF RECIPIENT: See Mailing List DATE: July 1993 TYPE: Fact Sheet SECOND REFERENCE: LF-2, LF-4, LF-5

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10.6 Fact Sheets, Press Advisories, and News Releases

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LOCATION:	ARF
DOCUMENT NUMBER: LONG TITLE:	# PEA (10.6) #7 001-003 "Superfund Program Draft Interagency Agreement Fact Sheet"
AUTHOR:	U.S. EPA. Region I
RECIPIENT	See Mailing List
DATE:	December 1990
TYPE:	Fact Sheet
SECOND REFERENCE:	None
LOCATION:	ARF #
	7
DOCUMENT NUMBER:	PEA (10.6) #8 001-008
LONG TITLE:	Pease Air Force Base Installation Restoration Program Update: Remedial Investigation/Feasibility Study
AUTHOR:	USAF
RECIPIENT:	See Distribution List October 1991
DATE: TYPE:	Fact Sheet
SECOND REFERENCE:	None
LOCATION:	ARF
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DOCUMENT NUMBER	PEA (10.6) #9 001-011
LONG TITLE:	Pease Air Force Base Installation Restoration Program Update: Information Update
AUTHOR:	USAF
RECIPIENT	See Distribution List
DATE:	December 1992
TYPE:	Fact Sheet
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (10.6) #10 001-004
LONG TITLE:	Pease Air Force Base Installation Restoration Program Update: Interim Groundwater Treatment - Sites 8, 32/36 and 34
AUTHOR:	USAF
RECIPIENT	See Distribution List
DATE:	January 1993
TYPE:	Fact Sheet
SECOND REFERENCE:	Sites 8, 34, 32/36
LOCATION:	ARF #
	#
DOCUMENT NUMBER:	PEA (10.6) #11 001-005
LONG TITLE:	Pease Air Force Base Installation Restoration Program Update: Underground Storage Tank Program Overview
AUTHOR:	USAF
RECIPIENT	See Distribution List
DATE:	January 1993 Fact Sheet
TYPE: SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER	PEA (10.6) #12 001-008
LONG TITLE:	Pease Air Force Base Installation Restoration Program Update: Proposed Plan for Landfill 5 Source Area
AUTHOR:	USAF
RECIPIENT:	See Distribution List
DATE:	January 1993
TYPE:	Fact Sheet
SECOND REFERENCE:	LF-S

10.6 Fact Sheets, Press Advisories, and News Releases

10.6 Fact Sheets. Press Advisories, and News Releases

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.6) #1 001-003 "News release regarding the investigation of 22 sites on Pease AFB" U.S. Air Force Media 30 September 1987 News Release None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.6) #2 001-002 "News release regarding presentation of the second interim technical report" U.S. Air Force Media 21 September 1988 News Release None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.6) #3 001-003 "News release regarding the underground water sampling program" U.S. Air Force Media 29 November 1988 News Release None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.6) #4 001-002 "News release regarding the release of the third interim technical report" U.S. Air Force Media 22 March 1989 News Release None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.6) #5 001-004 "News release regarding off-base well water sampling results" U.S. Air Force Media 7 June 1989 News Release None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (10.6) #6 001-002 "News release regarding drum removal at Landfill 5" U.S. Air Force Media 1989 News Release None

10.6 Fact Sheets, Press Advisories, and News Releases

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LOCATION: ARF

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	π. T
DOCUMENT NUMBER:	PEA (10.5) #7 001-003
LONG TITLE:	Meeting Minutes of Technical Review Committee
AUTHOR: RECIPIENT:	USAF See Distribution List
DATE:	31 March 1992
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER	PEA (10.5) #8 001-002
LONG TITLE:	Meeting Minutes of Technical Review Committee
AUTHOR:	USAF
RECIPIENT:	See Distribution List
DATE: TYPE:	28 April 1992 Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.5) #9 001-003
LONG TITLE:	Meeting Minutes of Technical Review Committee
AUTHOR:	USAF
RECIPIENT:	See Distribution List
DATE:	20 May 1992
TYPE: SECOND REFERENCE:	Meeting Minutes None
LOCATION:	ARF
	#
DOCUMENT NUMBER	PEA (10.5) #10.001.005
DOCUMENT NUMBER: LONG TITLE:	PEA (10.5) #10 001-005 Meeting Minutes of Technical Review Committee
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (10.5) #10 001-005 Meeting Minutes of Technical Review Committee USAF
LONG TITLE:	Meeting Minutes of Technical Review Committee USAF See Distribution List
LONG TITLE: AUTHOR: RECIPIENT: DATE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes
LONG TITLE: AUTHOR: RECIPIENT: DATE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 27 October 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 27 October 1992 Meeting Minutes
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 27 October 1992 Meeting Minutes None
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 27 October 1992 Meeting Minutes
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 27 October 1992 Meeting Minutes None ARF #
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 27 October 1992 Meeting Minutes None ARF # PEA (10.5) #12 001-004
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 27 October 1992 Meeting Minutes None ARF # PEA (10.5) #12 001-004 Meeting Minutes of Technical Review Committee
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 27 October 1992 Meeting Minutes None ARF # PEA (10.5) #12 001-004
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 27 October 1992 Meeting Minutes None ARF # PEA (10.5) #12 001-004 Meeting Minutes of Technical Review Committee USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 27 October 1992 Meeting Minutes None ARF # PEA (10.5) #12 001-004 Meeting Minutes of Technical Review Committee USAF See Distribution List
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TUTHOR:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 September 1992 Meeting Minutes None ARF # PEA (10.5) #11 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 27 October 1992 Meeting Minutes None ARF # PEA (10.5) #12 001-004 Meeting Minutes of Technical Review Committee USAF See Distribution List 16 December 1992

10.5 Documentation of Other Public Meetings

LOCATION:

ARF

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10.5 Documentation of Other Public Meetings

DOCUMENT NUMBER: LONG TITLE:	PEA (10.5) #1 001-007 Meeting Minutes of Technical Review Committee
AUTHOR:	USAF
RECIPIENT:	See Distribution List
DATE:	30 July 1991
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.5) #2 001-007
LONG TITLE:	Meeting Minutes of Technical Review Committee
AUTHOR:	USAF
RECIPIENT:	See Distribution List
DATE:	27 August 1991
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.5) #3 001-010
LONG TITLE:	Meeting Minutes of Technical Review Committee
AUTHOR:	USAF
RECIPIENT:	See Distribution List
DATE:	01 October 1991
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.5) #4 001-003
LONG TITLE:	Meeting Minutes of Technical Review Committee
LONG TTTLE: AUTHOR:	Meeting Minutes of Technical Review Committee USAF
LONG TITLE: AUTHOR: RECIPIENT:	Meeting Minutes of Technical Review Committee USAF See Distribution List
LONG TITLE: AUTHOR: RECIPIENT: DATE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 26 November 1991 Meeting Minutes None
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 26 November 1991 Meeting Minutes
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 26 November 1991 Meeting Minutes None
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 26 November 1991 Meeting Minutes None ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 26 November 1991 Meeting Minutes None ARF # PEA (10.5) #6 001-005
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 26 November 1991 Meeting Minutes None ARF # PEA (10.5) #6 001-005 Meeting Minutes of Technical Review Committee
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 26 November 1991 Meeting Minutes None ARF # PEA (10.5) #6 001-005 Meeting Minutes of Technical Review Committee USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 26 November 1991 Meeting Minutes None ARF # PEA (10.5) #6 001-005 Meeting Minutes of Technical Review Committee USAF See Distribution List
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 26 November 1991 Meeting Minutes None ARF # PEA (10.5) #6 001-005 Meeting Minutes of Technical Review Committee USAF See Distribution List 07 January 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: AUTHOR: RECIPIENT: DATE:	Meeting Minutes of Technical Review Committee USAF See Distribution List 29 October 1991 Meeting Minutes None ARF # PEA (10.5) #5 001-013 Meeting Minutes of Technical Review Committee USAF See Distribution List 26 November 1991 Meeting Minutes None ARF # PEA (10.5) #6 001-005 Meeting Minutes of Technical Review Committee USAF See Distribution List

LOCATION: ARF

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LOCATION:	ARF
Dournon	#
DOCUMENT NUMBE	,
LONG TITLE:	"Meeting minutes of the Technical Review Committee"
AUTHOR:	Department of the Air Force
RECIPIENT:	See Distribution List
DATE:	27 March 1991
TYPE:	Meeting Minutes
SECOND REFERENC	E: None
LOCATION:	ARF
	*
DOCUMENT NUMBE	
LONG TITLE:	"Meeting minutes of the Technical Review Committee"
AUTHOR	Department of the Air Force
RECIPIENT:	See Distribution List
DATE:	24 April 1991
TYPE:	Meeting Minutes
SECOND REFERENCE	
LOCATION:	ARF
	#
DOCUMENT NUMBE	R: PEA (10.4) #14 001-003
LONG TITLE:	"Meeting minutes of the Technical Review Committee"
AUTHOR:	Department of the Air Force
RECIPIENT:	See Distribution List
DA TE : T YPE :	28 May 1991
	Meeting Minutes
SECOND REFERENCI	E: None ARF
LOCATION:	ART #
	π
DOCUMENT NUMBE	R: PEA (10.4) #15 001-006
LONG TITLE:	"Meeting minutes of the Technical Review Committee"
AUTHOR:	Department of the Air Force
RECIPIENT:	See Distribution List
DATE:	25 June 1991
TYPE:	Meeting Minutes
SECOND REFERENCE	
LOCATION:	ARF
Doutinois	#
DOCUMENT NUMBER	R: PEA (10.4) #16 001-038
LONG TITLE:	Pease AFB Official Transcript of Public Hearing for Propsed Plan for IRP Sites 332/36 and 34
AUTHOR:	R&R Associates, Inc.
RECIPIENT:	USAF
DATE:	30 March 1993
TYPE:	Transcript
SECOND REFERENCE	E: Sites 32/34 and 36
LOCATION:	ARF
	#
DOCUMENT NUMBER	
LONG TITLE:	Summary of Pease AFB Public Hearing on the Proposed Plans for IRP Sites 32/36 and 34
AUTHOR:	Dynamac Corporation
RECIPIENT:	USAF
DATE:	30 March 1993
TYPE:	Hearing Summary
SECOND REFERENCE	E: Sites 32/34 and 36

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DOCUMENT NUMBER: PEA (10.4) #6 001-005 LONG TITLE: "Meeting minutes of the Technical Review Committee" AUTHOR: Department of the Air Force RECIPIENT: See Distribution List DATE: 25 July 1990 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (10.4) #7 001-005 LONG TITLE: "Meeting minutes of the Technical Review Committee" AUTHOR: Department of the Air Force RECIPIENT: See Distribution List DATE: 29 August 1990 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (10.4) #8 001-012 "Meeting minutes of the Technical Review Committee" LONG TITLE: AUTHOR: Department of the Air Force **RECIPIENT:** See Distribution List DATE: 26 September 1990 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (10.4) #9 001-008 LONG TITLE: "Meeting minutes of the Technical Review Committee" Department of the Air Force AUTHOR: **RECIPIENT:** See Distribution List DATE: 31 October 1990 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (10.4) #10 001-004 LONG TITLE: "Meeting minutes of the Technical Review Committee" AUTHOR: Department of the Air Force RECIPIENT: See Distribution List DATE: 29 November 1990 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (10.4) #11 001-003 LONG TITLE: "Meeting minutes of the Technical Review Committee" AUTHOR: Department of the Air Force RECIPIENT: See Distribution List

10.4 Public Meeting Transcripts

SECOND REFERENCE:

31 January 1991

Meeting Minutes

None

DATE:

TYPE:

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10.4 Public Meeting Transcripts

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DOCUMENT NUMBER:	PEA (10.4) #1 001-052
LONG TITLE:	Pease Air Force Base, New Hampshire Official Transcript of Public Hearing for Proposed Plan for Landfill 5 Source
20110 11100	Area
AUTHOR:	R & R Associates
ACTION	P.O. Box 863
DECIDIENT	Exter. NH 03833
RECIPIENT:	USAF
DATE:	27 January 1993
TYPE:	Transcript
SECOND REFERENCE:	Landfill 5
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.4) #2 001-7.4
LONG TITLE:	Public Hearing Summary of Pease Air Force Base Public hearing on Landfill 5 Source Area Proposed Plan
AUTHOR:	Dynamac Corporation
	230 Peachtree St., N.W.
	Suite 500
	Atlanta, Georgia 30303
RECIPIENT:	USAF
DATE:	27 January 1993
TYPE:	Hearing Summary
SECOND REFERENCE:	Landfill 5
LOCATION:	ARF, IR
	#
DOCUMENT NUMBER:	PEA (10.4) #3 001-025
LONG TITLE:	Pease Air Force Base Public Workshop and Information Meeting: Installation Restoration Program
AUTHOR:	Dynamac Corporation
	230 Peachtree St., N.W.
	Suite 500
	Atlanta, Georgia 30303
RECIPIENT:	USAF
DATE	12 January 1993
TYPE:	Meeting Summary
SECOND REFERENCE:	None
LOCATION:	IR
Location.	#
	π
DOCUMENT NUMBER:	PEA (10.4) #4 001-010
LONG TITLE:	"Meeting minutes of the Technical Review Committee"
AUTHOR:	Department of the Air Force
	•
RECIPIENT:	See Distribution List
DATE:	30 May 1990
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCTIMENT NERVER-	DE & (10 4) #5 001 009
DOCUMENT NUMBER:	PEA (10.4) #5 001-008
LONG TITLE:	"Meeting minutes of the Technical Review Committee"
AUTHOR:	Department of the Air Force
RECIPIENT:	See Distribution List
DATE:	27 June 1990
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF

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TYPE:Public NoticeSECOND REFERENCE:LF-2, LF-4, LF-5LOCATION:ARF

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10.3 Public Notices

DOCUMENT NUMBER:	PEA (10.3) #1 001-001
LONG TIFLE:	Paid Advertisement of January 27, 1993 Public Hearing on Proposed Plan for Landfill 5 Source Area
AUTHOR:	
RECIPIENT:	Foster's Daily Democrar, Public
	•
DATE:	23 January 1993
TYPE:	Public Notice
SECOND REFERENCE	None
LOCATION:	ARF. IR
	*
DOCUMENT NUMBER:	PEA (10.3) #2 001-001
LONG TITLE:	Paid Advertisement of January 27, 1993 Public Hearing for Proposed Plan for Landfill 5 Source Area
AUTHOR:	USAF
RECIPIENT:	Portsmouth Herald: Public
DATE:	24 January 1993
TYPE:	Public Notice
SECOND REFERENCE	None
LOCATION:	ARF, IR
	*
DOCUMENT NUMBER:	PEA (10.3) #3 001-001
LONG TITLE:	Paid Advertisement in Portsmouth Herald, for Sites 32/36 and 34 Proposed Plan Public Hearing and Comment
	Period.
AUTHOR:	USAF
RECIPIENT:	Portsmouth Herald; Public
DATE:	28 March 1993
TYPE:	Public Notice
SECOND REFERENCE	Site 32/36; Site 34
	ARF
LOCATION:	
	#
DOCUMENT NUMBER:	PEA (10.3) #4 001-001
DOCUMENT NUMBER: LONG TITLE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment
	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment
LONG TTILE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period
LONG TITLE: AUTHOR:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF
LONG TTILE: AUTHOR: RECIPIENT:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public
LONG TTILE: AUTHOR: RECIPIENT: DATE: TYPE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34
LONG TTILE: AUTHOR: RECIPIENT: DATE: TYPE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34
LONG TTTLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF #
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001
LONG TTTLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public 31 July 1993
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	 Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public 31 July 1993 Public Notice
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public 31 July 1993 Public Notice LF-2, LF-4, LF-5
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public 31 July 1993 Public Notice LF-2, LF-4, LF-5 ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public 31 July 1993 Public Notice LF-2, LF-4, LF-5 ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public 31 July 1993 Public Notice LF-2, LF-4, LF-5 ARF # PEA (10.3) #6 001-001
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public 31 July 1993 Public Notice LF-2, LF-4, LF-5 ARF # PEA (10.3) #6 001-001 Paid Advertisement in Portsmouth Herald for Landfill 5 Revised Proposed Plan Public Comment Period and Public
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public 31 July 1993 Public Notice LF-2, LF-4, LF-5 ARF # PEA (10.3) #6 001-001 Paid Advertisement in Portsmouth Herald for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public 31 July 1993 Public Notice LF-2, LF-4, LF-5 ARF # PEA (10.3) #6 001-001 Paid Advertisement in Portsmouth Herald for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public 31 July 1993 Public Notice LF-2, LF-4, LF-5 ARF # PEA (10.3) #6 001-001 Paid Advertisement in Portsmouth Herald for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Paid Advertisement in Foster's Daily Democrat for Sites 32/36 and 34 Proposed Plan Public hearing and Comment Period USAF Foster's Daily Democrat Public 27 March 1993 Public Notice Site 32/36; Site 34 ARF # PEA (10.3) #5 001-001 Paid Advertisement in Foster's Daily Democrat for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF Foster's Daily Democrat, Public 31 July 1993 Public Notice LF-2, LF-4, LF-5 ARF # PEA (10.3) #6 001-001 Paid Advertisement in Portsmouth Herald for Landfill 5 Revised Proposed Plan Public Comment Period and Public Hearing USAF

10.2 Community Relations Plan

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DOCUMENT NUMBER:	PEA (10.2) #1 001-040
LONG TITLE:	"Installation Restoration Program Community Relations Plan"
AUTHOR:	Roy F. Weston. Inc.
RECIPIENT:	EPA, NHDES, USAF
DATE:	January 1991
TYPE:	Community Relations Plan
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	#
DOCUMENT NUMBER:	PEA (10.2) #2 001-080
LONG TTILE:	U.S. Air Force Installation Restoration Program Community Relations Plan for Pease AFB. NH Interim Final
AUTHOR:	Dynamac Corporation
	230 Peachtree St., N.W., Ste. 500
	Atlanta, GA 30303
RECIPIENT:	USAF
DATE:	յալ 1993
TYPE:	CRP
SECOND REFERENCE:	None
LOCATION:	ARF
	#

AUTHOR: Robert J. Mack, Director Office of Real Property Management U.S. Department of State **RECIPIENT:** Art Ditto, AFBDA DATE: 29 March 1993 TYPE: Letter with attachment SECOND REFERENCE: Sites 32/36 and 34 LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #79 001-003 LONG TITLE: Proposed Plans for IRP Sites 32/36 and 34, March 1993, Draft Final AUTHOR: George C. Jones, Executive Director PDA RECIPIENT: Art Ditto, AFBDA DATE: 15 April 1993 TYPE: Comments SECOND REFERENCE: Sites 32/36 and 34 LOCATION: ARF # DOCUMENT NUMBER: PEA (10.1) #80 001-003 LONG TITLE: SCOPE Comments on Proposed Plans for Sites 32/36 and 34 AUTHOR: Bradley M. Lown, Chairman, SCOPE **RECIPIENT:** Art Ditto, AFBDA DATE: 26 April 1993 TYPE: Comments SECOND REFERENCE: Sites 32/36 and 34 LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #81 001-005 LONG TTTLE: Response to EPA Comments on the Draft Zone 5 ISA AUTHOR: USAF RECIPIENT: EPA Region 1 DATE: 14 June 1993 Response to Comments TYPE: SECOND REFERENCE: Zone 5 LOCATION: ARF # DOCUMENT NUMBER: PEA (10.1) #82 001-025 Response to NHDES Comments on the Draft Zone 5 ISA LONG TTTLE: AUTHOR: USAF **RECIPIENT:** NHDES 14 June 1993 DATE: TYPE: Response to Comments SECOND REFERENCE: Zone 5 ARF LOCATION:

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DOCUMENT NUMBER: PEA (10.1) #72 001-009 LONG TITLE: Response to EPA Comments on Site 8 Draft FS AUTHOR: USAF **RECIPIENT:** EPA DATE: 11 January 1993 TYPE: Response to Comments SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #73 001-001 LONG TITLE: Sierra Club Comments on Cleanup of Site 5 at Pease Air Force Base AUTHOR: Scott Drummey, Sierra Club **RECIPIENT:** USAF DATE: 15 February 1993 TYPE: Comments SECOND REFERENCE: Landfills LOCATION: ARF # DOCUMENT NUMBER: PEA (10.1) #74 001-002 LONG TITLE: Proposed Plan for IPR Site 5, Landfill 5, Source Area AUTHOR: Seacoast Citizens Overseeing Pease Environment (SCOPE) RECIPIENT: USAF DATE: 22 January 1993 TYPE: Comments SECOND REFERENCE: Landfills LOCATION: ARF # DOCUMENT NUMBER: PEA (10.1) #75 001-002 LONG TITLE: DES Review of Site 8 Draft Final Feasibility Study, january 1993 and Air Force's Response to Comments to DES Review Comments to Site 8 Draft Feasibility Study AUTHOR: NHDES Art Ditto, AFBDA RECIPIENT: 01 March 1993 DATE: TYPE: Comments SECOND REFERENCE: Site 8 LOCATION: ARF # DOCUMENT NUMBER: PEA (10.1) #76 001-009 LONG TITLE: EPA Review of Air Force Installation Restoration Program, Draft Remedial Investigation Report, Zone 5, Pease Air Force Base - February 1993 AUTHOR: EPA RECIPIENT: Art Ditto, AFBDA DATE: 26 March 1993 TYPE: Comments SECOND REFERENCE: Zone 5 ARF LOCATION: DOCUMENT NUMBER: PEA (10.1) #77 001-011 LONG TITLE: IRP Stage 4 Zone 5 Remedial Investigation, February 1993 - Draft NHDES AUTHOR: Art Ditto, AFBDA RECIPIENT: 26 March 1993 DATE: TYPE: Comments SECOND REFERENCE: Zone 5 LOCATION: ARF # DOCUMENT NUMBER: PEA (10.1) #78 001-002

LONG TITLE: Comments on Proposed Plan for IRP Sites 32/36 and 34

RECIPIENT: Johanna Hunter, EPA Richard Pease, NHDES DATE: February 1993 TYPE: Letter SECOND REFERENCE: Zone 2 ARF LOCATION: DOCUMENT NUMBER: PEA (10.1) #66 001-012 Response to Comments, Zone 2 SCS - EPA Comments LONG TITLE: USAF AUTHOR: EPA **RECIPIENT:** 2 February 1993 DATE: Response to Comments TYPE: SECOND REFERENCE: Zone 2 ARF LOCATION: # PEA (10.1) #67 001-009 DOCUMENT NUMBER: Response to Comments, Zone 2 SCS - NHDES Comments LONG TITLE: AUTHOR: USAF NHDES **RECIPIENT:** 2 February 1993 DATE: Response to Comments TYPE: SECOND REFERENCE: Zone 2 LOCATION: ARF # PEA (10.1) #68 001-004 DOCUMENT NUMBER: Stage 3B IRP Site 34 Groundwater Treatment Plant ITIR Draft, November 1992 LONG TITLE: NHDES AUTHOR: Art Ditto, AFBDA RECIPIENT: 25 January 1993 DATE: Comments TYPE: SECOND REFERENCE: Site 34 ARF LOCATION: DOCUMENT NUMBER: PEA (10.1) #69 001-018 Response to EPA Comments on Site 8 Draft FS LONG TITLE: USAF AUTHOR: • RECIPIENT: EPA DATE: 27 January 1993 Response to Comments TYPE: SECOND REFERENCE: Site 8 LOCATION: ARF PEA (10.1) #70 001-021 DOCUMENT NUMBER: Response to NHDES Comments on Site 8 Draft FS LONG TITLE: USAF AUTHOR: NHDES RECIPIENT: 28 January 1993 DATE: Response to Comments TYPE: SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #71 001-006 LONG TITLE: Response to NHDES Comments on Zone 5 FS AUTHOR: USAF RECIPIENT: NHDES 07 January 1993 DATE: TYPE: Response to Comments SECOND REFERENCE: Zone 5 ARF LOCATION:

AUTHOR: Johanna Hunter, RPM, USEPA Region 1 RECIPIENT: Arthur Ditto, RPM, USAF, Pease AFB DATE: 21 January 1993 TYPE: Letter SECOND REFERENCE: Sites 34, 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #60 001-004 Additional Review Comments on Draft Proposed Plans for IRP Sites 32/36, Draft Final Feasibility Study for IRP Site LONG TITLE: 34. Draft Final Feasibility Study for IRP Site 32/36 AUTHOR: Richard Pease, RPM, NHDES RECIPIENT: Arthur Ditto, RPM, USAF, Pease AFB DATE: 25 January 1993 TYPE: Letter SECOND REFERENCE: Sites 34. 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #61 001-002 Review Comments of Pease AFB Preliminary Findings - Fish and Shellfish Tissue Analysis LONG TITLE: AUTHOR: Richard Pease, RPM, NHDES RECIPIENT: Arthur Ditto, RPM, USAF, Pease AFB DATE: 21 January 1993 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF ź DOCUMENT NUMBER: PEA (10.1) #62 001-002 Review of the Air Force Selection of Remedial Action Alternative Letter for Site 8, FDTA #2, dated January 8, 1993 LONG TITLE: AUTHOR: EPA, Region 1 **RECIPIENT:** Arthur Ditto, AFBDA DATE: 26 February 1993 TYPE: Letter SECOND REFERENCE: Site 8 LOCATION: ARF # DOCUMENT NUMBER: PEA (10.1) #63 001-004 LONG TTILE: Review of Site 8 Draft Final Feasibility Study IRP Pease Air Force Base, NH 03801, Draft January 1993 AUTHOR: EPA, Region 1 RECIPIENT: Arthur Ditto, AFBDA DATE: 26 February 1993 TYPE: Letter and Comments SECOND REFERENCE: Site 8 LOCATION: ARF # DOCUMENT NUMBER: PEA (10.1) #64 001-003 EPA Review of the Air Force Installation Restoration Program. Revised Draft Final Proposed Plans for IRP Sites LONG TITLE: 32/36 and 34, Pease Air Force Base - March 1993 AUTHOR: EPA, Region 1 RECIPIENT: Arthur Ditto, AFBDA DATE: 10 February 1993 TYPE: Letter and Comments SECOND REFERENCE: Sites 32/36; Site 34 LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #65 001-001 LONG TITLE: Submittal of Responses to Comments for the Zone 2 Site Characterization Summary AUTHOR: USAF

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LONG TITLE: AUTHOR:	Review Comments/Pease AFB Railroad Track (Site 46) Site Investigation Letter Report Richard H. Pease, P.E.
RECIPIENT:	RPM, NHDES Arthur Ditto, P.E.
	RPM, U.S. Air Force Pease AFB
DATE:	4 January 1993
TYPE:	Letter Report
SECOND REFERENCE:	Site 46
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.1) #55 001-002
LONG TITLE:	Response to Comments, LF-5 Draft Proposed Plan and Fact Sheet
AUTHOR:	Arthur Ditto, RPM
	U.S. Air Force
RECIPIENT:	Johanna Hunter, RPM
	U.S. EPA, Region 1
DATE: TYPE:	5 January 1993 Letter
SECOND REFERENCE:	LF-5
LOCATION:	ARF
20	*
	BEA (10.1) #56 001.004
DOCUMENT NUMBER: LONG TITLE:	PEA (10.1) #56 001-004 Comments on Stage 3C Feasibility Study for Site 32/36 Draft Final December 1992
AUTHOR:	Richard H. Pease, P.E.
	NHDES
RECIPIENT:	Arthur Ditto, P.E.
	RPM, USAF
DATE:	11 January 1993
TYPE:	Letter
SECOND REFERENCE:	Site 32/36
LOCATION:	ARF #
	77
DOCUMENT NUMBER:	PEA (10.1) #57 001-004
LONG TITLE:	Review Comments for Draft Proposed Plans for IRP Sites 32/36 and 34, December 1992
AUTHOR:	Richard H. Pease, P.E.
DECTRIENT.	NHDES
RECIPIENT:	Arthur Ditto, P.E. RPM, USAF
DATE:	14 January 1993
TYPE:	Letter
SECOND REFERENCE:	Sites 34, 32/36
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.1) #58 001-006
LONG TITLE:	EPA Review of Draft Final Feasibility Study for IRP Site 32/36 - December 1992
AUTHOR:	Johanna Hunter, RPM, USEPA Region 1
RECIPIENT:	Arthur Ditto, RPM, USAF, Pease AFB
DATE:	19 January 1993
TYPE:	Letter
SECOND REFERENCE:	Site 32/36
LOCATION:	ARF #
	π
DOCUMENT NUMBER:	PEA (10.1) #59 001-005
LONG TITLE:	EPA Review of USAF IRP, Draft Proposed Plans for IRP Sites 32/36 and 34 - December 1992

 DATE:
 4 December 1992

 TYPE:
 Letter with Comment Reports

 SECOND REFERENCE:
 Zone 2: Zone 5

 LOCATION:
 ARF

 DOCUMENT NUMBER:
 PEA (10.1) #50 001-004

 LONG TITLE:
 Review of Zone 1, Site Characterization

ARF

Zone 1 ARF

RECIPIENT: DATE: TYPE: SECOND REFERENCE:

AUTHOR:

LOCATION:

Review of Zone 1, Site Characterization Summary for Pease AFB, October 1992 Michael J. Daly U.S. EPA, Region 1 Federal Facilities Superfund Section Arthur Ditto, P.E. RPM, USAF Pease AFB 9 December 1992 Letter Zone 1; PEA (3.5)

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DOCUMENT NUMBER:	PEA (10.1) #51 001-004
LONG TTILE:	Review of the Zone 1 Site Characterization Summary for Pease AFB
AUTHOR:	Michael J. Daiy
	U.S. EPA, Region 1
	Federal Facilities Superfund Section
RECIPIENT:	Arthur Ditto, RPM
	U.S. Air Force
	Pease AFB
DATE:	9 December 1992

Letter with Comment Report

DATE:	
TYPE:	
SECOND REFERENCE:	
LOCATION:	

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DOCUMENT NUMBER:	PEA (10.1) #52 001-001
LONG TITLE:	Comments on Zone 2 Pumping Test Letter Report
AUTHOR:	Michael J. Daly
	U.S. EPA, Region 1
	Federal Facilities Section
RECIPIENT:	Arthur Ditto, RPM
	USAF/Pease AFB
DATE:	10 December 1992
TYPE:	Fax
SECOND REFERENCE:	Zone 2
LOCATION:	ARF

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DOCUMENT NUMBER:	PEA (10.1) #53 001-004
LONG TITLE:	EPA Review of IRP LF-5, Draft Proposed Plan, November 1992
AUTHOR:	Johanna Hunter, RPM
	U.S. EPA, Region 1
RECIPIENT:	Arthur Ditto, RPM
	USAF. Pease AFB
DATE:	17 December 1992
TYPE:	Letter
SECOND REFERENCE:	LF-5; PEA (4.3)
LOCATION:	ARF

DOCUMENT NUMBER: PEA (10.1) #54 001-002

LONG TITLE: Comments on Zone 2 Site Characterization Study AUTHOR: Michael J. Daly U.S. EPA, Region 1 Federal Facilities Section RECIPIENT: Mark McKenzie USAF Pease AFB DATE: 24 November 1992 TYPE: Letter (Fax) SECOND REFERENCE: Zone 2 LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #46 001-005 LONG TITLE: Review Comments of Stage 4, Site Characterization Summary, IRP Zone 2 AUTHOR: Richard H. Pease, P.E. RPM, NHDES RECIPIENT: Arthur Ditto, P.E. RPM, U.S. Air Force Pease AFB DATE: 30 November 1992 TYPE: Letter SECOND REFERENCE: Zone 2 LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #47 001-002 LONG TITLE: Review Comments of Stage 4, Site Characterization Summary, IRP Zone 5 AUTHOR: Richard H. Pease, P.E. RPM, NHDES **RECIPIENT:** Arthur Ditto, P.E. RPM, U.S. Air Force Pease AFB DATE: 1 December 1992 TYPE: Letter SECOND REFERENCE: Zone 5 LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #48 001-003 LONG TITLE: Review Comments of Stage 4, Site Characterization Summary, IRP Zone 1 AUTHOR: Richard H. Pease, P.E. RPM, NHDES RECIPIENT: Arthur Ditto, P.E. RPM, U.S. Air Force Pease AFB DATE: 1 December 1992 TYPE: Letter Comment Report SECOND REFERENCE: LF-4; Zone 1; LF-2 LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #49 001-008 Review of Zone 2 and Zone 5, Site Characterization Summaries for Pease AFB LONG TITLE: AUTHOR: Michael J. Daly U.S. EPA, Region 1 Federal Facilities Superfund Section RECIPIENT: Arthur Ditto, P.E. U.S. Air Force Pease AFB

DATE:	3 November 1992
TYPE:	Letter
SECOND REFERENCE:	PEA (3.3); PEA (3.1)
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.1) #41 001-002
LONG TTILE:	EPA Review of IRP Stage 4, No Further Action Decision Document (NFADD) for Site 3
AUTHOR:	Johanna Hunter, RPM
	U.S. EPA Region 1
RECIPIENT:	Arthur Ditto, RPM
	U.S. Air Force
	Pease AFB
DATE:	5 November 1992
TYPE:	
SECOND REFERENCE:	Site 3
LOCATION:	ARF #
	*
DOCUMENT NUMBER:	PEA (10.1) #42 001-003
LONG TITLE:	Comments on Pease Off-Base Well Inventory Letter Report
AUTHOR:	Richard H. Pease, P.E.
	RPM, NHDES
RECIPIENT:	Arthur Ditto, P.E.
	RPM, U.S. Air Force
	Pease AFB
DATE:	12 November 1992
TYPE:	Letter
SECOND REFERENCE:	Zone 2; Zone 5; Site 8
LOCATION:	ARF
2	
	*
DOCUMENT NUMBER:	PEA (10.1) #43 001-003
DOCUMENT NUMBER: LONG TITLE:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36
DOCUMENT NUMBER:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E.
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM, NHDES
DOCUMENT NUMBER: LONG TITLE:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E.
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM. U.S. Air Force
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM, U.S. Air Force Pease AFB 13 November 1992
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM, U.S. Air Force Pease AFB 13 November 1992 Letter
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM, U.S. Air Force Pease AFB 13 November 1992 Letter Site 32/36
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHIDES Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 13 November 1992 Letter Site 32/36 ARF
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHIDES Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 13 November 1992 Letter Site 32/36 ARF # PEA (10.1) #44 001-002
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 13 November 1992 Letter Site 32/36 ARF # PEA (10.1) #44 001-002 Review of Stage 4 Sampling and Analysis Plan Addendum 3, Pease AFB Michael J. Daly U.S. EPA, Region 1
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 13 November 1992 Letter Site 32/36 ARF PEA (10.1) #44 001-002 Review of Stage 4 Sampling and Analysis Plan Addendum 3, Pease AFB Michael J. Daly U.S. EPA, Region 1 Federal Facilities Superfund Section
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 13 November 1992 Letter Site 32/36 ARF PEA (10.1) #44 001-002 Review of Stage 4 Sampling and Analysis Plan Addendum 3, Pease AFB Michael J. Daly U.S. EPA, Region 1 Federal Facilities Superfund Section Arthur Ditto, P.E.
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 13 November 1992 Letter Site 32/36 ARF # PEA (10.1) #44 001-002 Review of Stage 4 Sampling and Analysis Plan Addendum 3. Pease AFB Michael J. Daly U.S. EPA, Region 1 Federal Facilities Superfund Section Arthur Ditto, P.E. RPM. U.S. Air Force
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 13 November 1992 Letter Site 32/36 ARF PEA (10.1) #44 001-002 Review of Stage 4 Sampling and Analysis Plan Addendum 3. Pease AFB Michael J. Daly U.S. EPA, Region 1 Federal Facilities Superfund Section Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 23 November 1992 Letter
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 13 November 1992 Letter Site 32/36 ARF # PEA (10.1) #44 001-002 Review of Stage 4 Sampling and Analysis Plan Addendum 3. Pease AFB Michael J. Daly U.S. EPA, Region 1 Federal Facilities Superfund Section Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 23 November 1992 Letter None ARF
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (10.1) #43 001-003 Review Comments for Stage 3B, Informal Technical Information Report for IRP Site 32/36 Richard H. Pease, P.E. RPM. NHDES Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 13 November 1992 Letter Site 32/36 ARF PEA (10.1) #44 001-002 Review of Stage 4 Sampling and Analysis Plan Addendum 3. Pease AFB Michael J. Daly U.S. EPA, Region 1 Federal Facilities Superfund Section Arthur Ditto, P.E. RPM. U.S. Air Force Pease AFB 23 November 1992 Letter None

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DOCUMENT NUMBER: PEA (10.1) #45 001-001

10.1 Comments and Responses

RECIPIENT:	Arthur Ditto, P.E. RPM. NHDES Pease AFB
DATE:	2 October 1992
TYPE:	Letter
SECOND REFERENCE:	Zone 1
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.1) #37 001-002
LONG TITLE:	Proposed Locations for Additional Monitoring Wells at Site 8
AUTHOR:	Scott Doane. Hydrogeologist NHDES
	and
	John Regan, Supervisor NHDES
RECIPIENT:	Arthur Ditto, RPM, USAF
	Pease AFB
DATE:	9 October 1992
TYPE:	Letter
SECOND REFERENCE:	Site 3; PEA (3.1)
LOCATION:	ARF
	#
DOCUMENT NUMBER	PEA (10.1) #38 001-032
LONG TITLE:	Response to Comments: Site 8 Initial Screening of Alternatives
AUTHOR:	Rov F. Weston, Inc.
	through U.S. Air Force (Arthur Ditto)
RECIPIENT:	Johanna Hunter, RPM
	U.S. EPA, Region 1
	and
	Richard Pease
	RPM, NHDES
DATE:	13 October 1992
TYPE:	Transmittal Letters with 2 Attachments
SECOND REFERENCE:	Site 8; PEA (3.5)
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (10.1) #39 001-003
LONG TITLE:	NHDES Response to Comments to Site 42 Final Site Inspection Report, ICF Kaiser Engineers Portsmouth Waste
	to Energy Plant, dated July 1992
AUTHOR:	Richard H. Pease, P.E.
	RPM, NHDES
RECIPIENT:	Arthur Ditto, P.E
	RPM, USAF
DATE:	22 October 1992
TYPE:	Letter
SECOND REFERENCE:	Site 42; PEA (1.4)
LOCATION:	ARF
	*
DOCUMENT NUMBER	PEA (10.1) #40 001-006
LONG TITLE:	Response to Comments, Stage 4 Work Plan and Sampling and Analysis Plan Addendum 2
AUTHOR:	Arthur Ditto, RPM
	U.S. Air Force
	Pease AFB
RECIPIENT:	Johanna Hunter, RPM
	U.S. EPA, Region 1
	and
	Richard Pease, RPM
	NHDES

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DOCUMENT NUMBER:	PEA (10.1) #32 001-023
LONG TITLE:	Response to Comments on Zone 4 Site Characterization Summary
AUTHOR:	Roy F. Weston, Inc.
	Through U.S. Air Force (Art Ditto)
RECIPIENT:	Johanna Hunter, RPM
	U.S. EPA, Region 1
	and
	Richard Pease, RPM
	NHDES
DATE:	30 September 1992
TYPE:	Transmittal Letters with Letter Report
SECOND REFERENCE:	Zone 4: PEA (35)
LOCATION:	ARF
EUCATION:	
DOCT IMENT NI MEED	# DEA (10.1) #22.001.004
DOCUMENT NUMBER:	PEA (10.1) #33 001-006
LONG TITLE:	Review of Stage 3C Soil Vapor Extraction Treatability Study Work Plan for IP Site 8 - September 1992
AUTHOR:	Michael J. Daly
	U.S. EPA Region 1
	Federal Facilities Superfund Section
RECIPIENT:	Arthur Ditto
	RPM, USAF
	Pease AFB
DATE:	30 September 1992
TYPE:	Letter with 2 Attachments
SECOND REFERENCE:	Site 8; PEA (2.0)
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.1) #34 001-002
LONG TITLE:	Review Comments on Stage 3C, Letter Report for IRP Site 34 Groundwater Remediation System
AUTHOR:	Richard H. Pease, P.E.
	RPM, NHDES
RECIPIENT:	Arthur Ditto, P.E.
	RPM, USAF
	Pease AFB
DATE:	1 October 1992
TYPE:	Letter
SECOND REFERENCE:	Site 34; PEA (2.7)
LOCATION:	ARF
	#
	"
DOCUMENT NUMBER:	PEA (10.1) #35 001-001
LONG TITLE:	Review Comments for Landfill 3 - No Further Action Decision Document
AUTHOR:	Richard H. Pease. P.E.
	RPM, NHDES
RECIPIENT:	Arthur Ditto, P.E.
	RPM. USAF
	Pease AFB
DATE:	2 October 1992
TYPE:	Letter
SECOND REFERENCE:	Zone 1
LOCATION:	ARF
20 amon.	#
	"
DOCUMENT NUMBER:	PEA (10.1) #36 001-001
LONG TITLE:	Review Comments for Landfill 3 (IRP Site 3)
AUTHOR:	Richard H. Pease, P.E.
	RPM. NHDES

10.1 Comments and Responses

DOCUMENT NUMBER: PEA (10.1) #27 001-002 Stage 4 Work Plan Addendum 3 Review Comments LONG TITLE: AUTHOR: Richard Pease, NHDES RECIPIENT: Arthur Ditto, Pease AFB DATE: 14 August 1992 Comments TYPE: SECOND REFERENCE: PEA (6.3) LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #28 001-006 LONG TITLE: Haven Well Test Response to Comments James G. Spratt, Roy F. Weston, Inc. AUTHOR: **RECIPIENT:** Mark McKenzie, Pease AFB DATE: 17 August 1992 Response to Comments TYPE: SECOND REFERENCE: None ARF LOCATION: DOCUMENT NUMBER: PEA (10.1) #29 001-026 LONG TTILE: Response to Comments on Zone 3 Site Characterization Summary AUTHOR: Lee dePersia Task Manager Roy F. Weston, Inc. RECIPIENT: Capt. Carl Woerhle U.S. Air Force Base Closure Division Air Force Center for Environmental Excellence DATE: 1 September 1992 TYPE: Letter with Comment Report SECOND REFERENCE: Zone 3; PEA (3.4) LOCATION: ARF PEA (10.1) #30 001-002 DOCUMENT NUMBER: Review Comments of Draft Landfill 5 Source Area Proposed Plan LONG TITLE: Richard H. Pease, P.E. AUTHOR: RPM, NHDES RECIPIENT: Arthur Ditto, P.E. RPM, USAF Pease AFB DATE: 10 September 1992 TYPE: Letter SECOND REFERENCE: LF-5: PEA (4.3) LOCATION: ARF # DOCUMENT NUMBER: PEA (10.1) #31 001-003 Review of Letter Report Re: Addition of Bedrock Wells to Groundwater Extraction System at Site 32/36 LONG TITLE: AUTHOR: Johanna Hunter, RPM U.S. EPA, Region 1 Arthur Ditto, RPM RECIPIENT: USAF/Pease AFB DATE: 22 September 1992 TYPE: Letter SECOND REFERENCE: Site 32/36; PEA (2.7) LOCATION: ARF

10.1 Comments and Responses

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LONG TITLE:	AOC 32/36 Draft Final Remedial Investigation June 1992, Review Comments
AUTHOR:	Richard Pease, NHDES
RECIPIENT:	Arthur Ditto, Pease AFB
DATE:	08 July 1992
TYPE:	Comments
SECOND REFERENCE:	Site 32/36
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.1) #22 001-006
LONG TITLE:	Issues Needing Resolution for the Draft Final Remedial Investigation Report for Landfill 5, Dated April 1992
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, USEPA
DATE:	28 July 1992
TYPE:	Response to Comments
SECOND REFERENCE:	Landfill 5
LOCATION:	ARF
	#
DOCTIVENT NUMER.	DEA (10.1) #22.001.014
DOCUMENT NUMBER:	PEA (10.1) #23 001-011
LONG TITLE: AUTHOR:	Review of Draft Zone 4 Site Characterization Summary Report
ACTHOR	Johanna Hunter, RPM
RECIPIENT:	U.S. EPA, Region 1
RECIPIENT.	Arthur Ditto
	RPM. USAF Pease AFB
DATE:	1 August 1992
TYPE:	Transmittal Letter with Comment Report
SECOND REFERENCE:	Zone 4: PEA (3.5)
LOCATION:	ARF
bournon.	#
	*
DOCUMENT NUMBER:	PEA (10.1) #24 001-003
LONG TITLE:	Comments on Haven Pump Test Design and Piezometer Installations
AUTHOR:	Richard Pease, NHDES
RECIPIENT:	Arthur Ditto, Pease AFB
DATE:	7 August 1992
TYPE:	Comments
SECOND REFERENCE:	PEA (6.3)
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.1) #25 001-007
LONG TITLE:	Stage 3C Review of Initial Screening of Alternatives for IRP Site 8 Fire Training Area. Pease Air Force Pease, NH -
	- Draft, June 1992
AUTHOR:	Johanna Hunter. USEPA
RECIPIENT:	Arthur Ditto, Pease AFB
DATE:	10 August 1992
TYPE:	Comments
SECOND REFERENCE:	Site 3
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (10.1) #26 001-002
LONG TTTLE:	Haven Well Pump Test at Pease Air Force Base, NH
AUTHOR:	Johanna Hunter, USEPA
RECIPIENT:	Arthur Ditto, Pease AFB
DATE:	11 August 1992
TYPE:	Comments
SECOND REFERENCE:	None
LOCATION:	ARF

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LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Zone 3 Site Characterization Summary. May 1992 Review Comments Richard Pease, NHDES Arthur Ditto, Pease AFB 11 June 1992 Comments PEA (6.3): Zone 3
LOCATION:	ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.1) #16 001-006 Zone 3 Site Characterization Summary, May 1992 Review Comments Richard Pease, NHDES Arthur Ditto, Pease AFB 11 June 1992 Comments PEA (6.3); Zone 3 ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.1) #17 001-009 Review of the Zone 3 Site Characterization Summary for Pease Air Force Base, Portsmouth, NH - May 1992 Michael Daly, USEPA Arthur Ditto, Pease AFB 11 June 1992 Comments Zone 3 ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.1) #18 001-003 Site 32/36 Letter Report Comments Richard Pease, NHDES Arthur Ditto, Pease AFB 15 June 1992 Comments PEA (6.3); Site 32/36 ARF
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.1) #19 001-015 Review of the Stage 3C Feasibility Study for IRP Site 34 Pease Air Force Base, Portsmouth, NH May 1992 Michael J. Daly, USEPA Arthur Ditto, Pease AFB 18 June 1992 Comments Site 34 ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.1) #20 001-012 Review of the Draft Stage 3C Feasibility Study for IRP Site 32/36, Pease AFB, Portsmouth, NH - May 1992 Johanna Hunter, USEPA Arthur Ditto, Pease AFB 01 July 1992 Comments Site 32/36 ARF #
DOCUMENT NUMBER:	PEA (10.1) #21 001-003

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10.1 Comments and Responses

AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** USAF EPA DATE: May 1992 TYPE: Response to Comments SECOND REFERENCE: PEA (3.6) LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #12 001-003 Review Comments for Stage 4 Work Plan Addendum Number 2 LONG TITLE: AUTHOR: Richard H. Pease, P.E. RPM, NHDES RECIPIENT: Arthur Ditto, P.E. RPM, USAF Pease AFB DATE: 08 May 1992 TYPE: Letter SECOND REFERENCE: PEA (3.3) LOCATION: ARF # DOCUMENT NUMBER: PEA (10.1) #13 001-014 LONG TTTLE: Review Comments for Stage 4 Work Plan and Sampling and Analysis Plan Addendum Number 2 AUTHOR: Michael Daly U.S. EPA Region 1 Federal Facilities Superfund Section **RECIPIENT:** Arthur Ditto, RPM U.S. Air Force Pease AFB DATE: 14 May 1992 TYPE: Transmittal Sheet, Letter and Comment Report SECOND REFERENCE: PEA (3.1); PEA (3.3) LOCATION: ARF # DOCUMENT NUMBER: PEA (10.1) #14 001-013 LONG TTTLE: Review of Stage 4 Work Plan and Sampling and Analysis Plan Addendum Number 2 for Pease AFB AUTHOR: Michael J. Daiv U.S. EPA Region 1 Federal Facilities Superfund Section **RECIPIENT:** Arthur Ditto, RPM U.S. Air Force/Pease AFB DATE: 14 May 1992 TYPE: Letter with Comment Report SECOND REFERENCE: PEA (3.1); PEA (3.3) LOCATION: ARF DOCUMENT NUMBER: PEA (10.1) #15 001-006 Zone 4 Site Characterization Summary, May 1992 Review Comments LONG TTILE: AUTHOR: Richard Pease, NHDES **RECIPIENT:** Arthur Ditto, Pease AFB DATE: 02 June 1992 TYPE: Comments SECOND REFERENCE: PEA (6.3); Zone 4 LOCATION: ARF #

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PEA (10.1) #16 001-006

10.1 Comments and Responses

DOCUMENT NUMBER:

AUTHOR:	Johanna Hunter, RPM
	U.S. EPA, Region 1
RECIPIENT:	Arthur Ditto, RPM
	U.S. Air Force
	Pease AFB
DATE:	25 March 1991
TYPE:	Letter
SECOND REFERENCE:	Community Relations
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.1) #7 001-003
LONG TITLE:	Comments Remaining Unresolved for Stage 4 Work Plan Analysis Method
AUTHOR:	Mark McKenzie, Pease AFB
RECIPIENT:	Lee dePersia, Roy F. Weston, Inc.
DATE:	05 May 1991
TYPE:	Comments
SECOND REFERENCE	PEA (3.1)
LOCATION:	ARF
Location.	#
	π.
DOCUMENT NUMBER:	PEA (10.1) #8 001-002
LONG TITLE:	
	Oversight Comments on the Soil Boring/Piezometer Installation Program
AUTHOR:	Scott Doane
	John Regan
	NHDES
RECIPIENT:	Arthur Ditto, P.E.
	RPM, U.S. Air Force
	Pease AFB
DATE:	13 April 1992
TYPE:	Letter
SECOND REFERENCE:	CRD-1
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.1) #9 001-002
LONG TITLE:	Preliminary Assessment/Site Inspection Draft Fact Sheet Comments
AUTHOR:	Richard Pease, NHDES
RECIPIENT:	Arthur Ditto, Pease AFB
DATE:	17 April 1992
TYPE:	Comments
SECOND REFERENCE:	PEA (10.6); PEA (6.3)
LOCATION:	ARF
	#
DOCUMENT NUMBER	PEA (10.1) #10 001-002
LONG TITLE:	Review of Zone 2 Monitoring Well Installation Modifications
AUTHOR:	Richard Pease
	RPM, NHDES
RECIPIENT:	Arthur Ditto
	RPM, U.S. Air Force
	Pease AFB
DATE:	28 April 1992
TYPE:	Letter
SECOND REFERENCE:	Zone 2
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (10.1) #11 001-021
LONG TITLE:	Response to Comments on Zone 4. Site Characterization for Pease AFB, Portsmouth, NH

10.1 Comments and Responses

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (10.1) #1 001-005 "Response to Comments - Draft Final Community Relations Plan" Roy F. Weston, Inc. Air Force 7 February 1991 Letter/Response to Comments None ARF
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	# PEA (10.1) #2 001-003 Draft Community Relations Plan Comments Richard Pease, P.E. RPM, NHDES
RECIPIENT:	Arthur Ditto, P.E. RPM. U.S. Air Force
DATE: TYPE: SECOND REFERENCE: LOCATION:	30 November 1990 Letter Comment Report Community Relations ARF
	#
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (10.1) #3 001-010 EPA Region 1 Comments to IRP Draft Community Relations Plan; Pease AFB Douglas S. Gutto U.S. EPA Region 1 Supervised Community Palazings
RECIPIENT:	Superfund Community Relations Arthur Ditto, RPM U.S. Air Force Pease AFB
DATE: TYPE: SECOND REFERENCE: LOCATION:	7 December 1990 Letter Comment Report Community Relations ARF #
DOCUMENT NUMBER:	PEA (10.1) #4 001-011
LONG TTILE: AUTHOR: RECIPIENT:	EPA Comments on Pease AFB Community Relations Plan with Air Force's Responses Individual Unknown (From Air Force) U.S. Air Force
DATE: TYPE:	January 1991
SECOND REFERENCE: LOCATION:	Comment Report Community Relations ARF
	*
DOCUMENT NUMBER: LONG TITLE: AUTHOR: DECIDIENT:	PEA (10.1) #5 001-004 NHDES Comments on Pease AFB Community Relations Plan with Air Force Responses Individual Unknown (Through Air Force)
RECIPIENT: DATE: TYPE: SECOND REFERENCE:	U.S. Air Force January 1991 Comment Report Community Relations
LOCATION:	ARF #
DOCUMENT NUMBER: LONG TITLE:	PEA (10.1) #6 001-002 Review of Draft (Revised) Final Report IRP Community Relations Plan

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• NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

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• NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

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8.3 General Correspondence

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (8.3) #1 001-001 Heaith Assessment Split Sample NHDES Art Ditto, Pease AFB 26 July 1991 Letter PEA (6.4) ARF
LUCATION:	AR
	.
DOCUMENT NUMBER:	PEA (8.3) #2 001-001
LONG TTILE:	Health Assessment Report for Pease AFB
AUTHOR:	USAF
RECIPIENT:	Leslie Campbell
	ATSDR
	Mail Stop E-32
	1600 Clifton Road
	Atlanta, GA. 30333
DATE:	26 June 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF

8.2 Toxicological Profiles

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DOCUMENT NUMBER: PEA (8.2) #1 001-ZN4 LONG TTTLE: Installation Restoration Program Stage 4 Toxicity Profiles, Pease Air Force Base, NH 03803 AUTHOR: Roy F. Weston, Inc. RECIPIENT: USAF DATE: January 1993 TYPE: **Toxicity Profiles** SECOND REFERENCE: None LOCATION: ARF. IR

8.1 ATSDR Health Assessments

DOCUMENT NUMBER: PEA (8.1) #1 001-B1 LONG TITLE: Installation Restoration Program. Stage 3C Health Assessment, Pease AFB, NH, Volume I Draft AUTHOR: Roy F. Weston, Inc. RECIPIENT: USAF DATE: September 1991 TYPE: Health Assessment SECOND REFERENCE: None LOCATION: ARF

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: _

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• NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

7.6 Documentation of Technical Discussions / Response Actions

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• NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

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7.6 Documentation of Technical Discussions / Response Actions

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* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

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7.3 Administrative Orders

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DOCUMENT NUMBER:	PEA (7.3) #1 001-II.3
LONG TTILE:	Pease AFB Federal Facilities Agreement Modification
AUTHOR:	USAF
RECIPIENT:	Pease AFB
	EPA Region 1
	NHDES
	NH Attorney General
DATE:	January 1993
TYPE:	FFA Modification
SECOND REFERENCE:	none
LOCATION:	ARF
	#
DOCUMENT NUMBER:	
LONG TITLE:	
AUTHOR:	
RECIPIENT:	
DATE:	

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TYPE:

LOCATION:

SECOND REFERENCE:

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* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

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	Concord, NH 03302-2008
RECIPIENT	Art Ditto, Pease AFB
DATE:	26 May 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (6.4) #7 001-002
LONG TITLE:	State Review Comments to Site 8 Initial Screening of Alternatives: Clarification of TSCA Regulation of PCBs
AUTHOR:	Richard Pease, NHDES
RECIPIENT:	Art Ditto, Pease AFB
DATE:	11 August 1992
TYPE:	Letter
SECOND REFERENCE:	PEA (10.10); PEA (4.2)
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (6.4) #8 001-019
LONG TITLE:	Lab results of groundwater samples from monitoring wells 05-5113, 05-6101, and 08-6024.
AUTHOR:	NHDES
RECIPIENT:	Art Ditto, Pease AFB
DATE:	11 February 1993
TYPE:	Letter w/ attachment
SECOND REFERENCE:	None
LOCATION:	ARF
	<i>a</i>

6.4 General Correspondence

DOCUMENT NUMBER:	PEA (6.4) #1 001-003
LONG TITLE:	"Wetlands Application No. 89-1805"
AUTHOR:	State of New Hampshire. Department of Environmental Services, Water Supply and Pollution Control Division
RECIPIENT:	State of New Hampshire
DATE:	14 September 1989
	•
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (6.4) #2 001-001
LONG TITLE:	"Request for information for wetlands permit"
AUTHOR:	State of New Hampshire. Department of Environmental Services
RECIPIENT:	Air Force
DATE:	18 September 1989
TYPE:	Letter
SECOND REFERENCE	None
LOCATION:	ARF
EOCATION.	#
	T
DOCUMENT NUMBER:	PEA (6.4) #3 001-001
LONG TIPLE:	"Letter regarding the approval of permit No. WPP-3348 for Landfill 5 remediation"
AUTHOR:	State of New Hampshire, Department of Environmental Services
RECIPIENT:	Air Force
DATE:	11 October 1989
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (6.4) #4 001-005
LONG TITLE:	"Air Force Letter to the Wetlands Board regarding a request for approval for a modification to the wetlands permitted
	. In I othe potentie we we wanted potentie independent of a biological terms of the sector and be interesting the
Long men	scope of work"
	scope of work"
AUTHOR:	Roy F. Weston. Inc.
AUTHOR: RECIPIENT:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH
AUTHOR:	Roy F. Weston. Inc.
AUTHOR: RECIPIENT:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH
AUTHOR: RECIPIENT: DATE:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989
AUTHOR: RECIPIENT: DATE: TYPE:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base"
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990 Letter
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990 Letter None
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990 Letter None ARF
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990 Letter None
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Roy F. Weston. Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990 Letter None ARF
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990 Letter None ARF # PEA (6.4) #6 001-001
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Roy F. Weston. Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990 Letter None ARF
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Roy F. Weston, Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990 Letter None ARF # PEA (6.4) #6 001-001
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Roy F. Weston, Inc. Detbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990 Letter None ARF # PEA (6.4) #6 001-001 File # 92-679; CERCLA Related Temporary Fill of 2000 Square Feet for Wells at Pease AFB. NH
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Roy F. Weston. Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990 Letter None ARF # PEA (6.4) #6 001-001 File # 92-679; CERCLA Related Temporary Fill of 2000 Square Feet for Wells at Pease AFB. NH Kenneth N. Kettenring
AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Roy F. Weston. Inc. Delbert Downing, Wetlands Board, Concord, NH 21 November 1989 Letter None ARF # PEA (6.4) #5 001-010 "Letter to EPA regarding background information on Pease Air Force Base" US Department of Commerce Air Force via US EPA 7 March 1990 Letter None ARF # PEA (6.4) #6 001-001 File # 92-679; CERCLA Related Temporary Fill of 2000 Square Feet for Wells at Pease AFB, NH Kenneth N. Kettenring NHDES

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DOCUMENT NUMBER:	PEA (6.3) #39 001-020
LONG TITLE:	Quarterly Report, First Quarter 1992
AUTHOR:	Rov F. Weston, Inc.
RECIPIENT:	EPA, NHDES, USAF
DATE:	15 April 1992
TYPE:	Quarterly Report
SECOND REFERENCE:	None
LOCATION:	ARF, Art Ditto's office files
	#
DOCUMENT NUMBER:	PEA (6.3) #40 001-032
LONG TITLE:	Quarterly Report, Second Quarter 1992
AUTHOR:	Roy F. Weston. Inc.
RECIPIENT	EPA. NHDES, USAF
DATE:	14 July 1992
TYPE:	Quarterly Report
SECOND REFERENCE:	None
LOCATION:	ARF. Art Ditto's office files
	#
DOCUMENT NUMBER:	PEA (6.3) #41 001-043
LONG TITLE:	Quarteriy Report, Third Quarter 1992
AUTHOR:	Roy F. Weston. Inc.
RECIPIENT:	EPA, NHDES, USAF
DATE:	20 October 1992
TYPE:	Quarterly Report
SECOND REFERENCE:	None
LOCATION:	ARF, Art Ditto's office files
	#
DOCUMENT NUMBER:	PEA (6.3) #42 001-Q4
LONG TITLE:	Transmittal Letter for Quarterly Progress Report, Fourth Quarter 1992 Art Ditto, RPM, Pease AFB
AUTHOR:	
RECIPIENT:	Johanna Hunter, RPM, USEPA Region 1 Richard Pease, RPM, NHDES
DATE:	
TYPE:	19 January 1993 Transmittel Letter and Questerly Report
SECOND REFERENCE:	Transmittal Letter and Quarterly Report None
LOCATION:	ARF. Art Ditto's office files
LOCATION.	ART, Alt Ditto's office hies
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DOCUMENT NUMBER:	PEA (6.3) #43 001-E.1
LONG TITLE:	Quarterly Progress Report for Pease AFB
AUTHOR:	Art Ditto, RPM, Pease AFB
RECIPIENT:	Johanna Hunter, RPM, USEPA Region 1
	Richard Pease, RPM, NHDES
DATE:	26 April 1993
TYPE:	Report
SECOND REFERENCE:	None
LOCATION:	ARF
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DATE:	22 October 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
LOCATION.	ANF #
	7
DOCUMENT NUMBER:	PEA (6.3) #34 001-001
LONG TITLE:	Guidebook for Environmental Permits in New Hampshire
AUTHOR:	Richard Pease, NHDES
RECIPIENT:	Art Ditto, Pease AFB
	Johanna Hunter, USEPA
DATE:	4 November 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (6.3) #35 001-004
LONG TITLE:	Newington Water Quality Sampling on October 14, 1992 and Analysis Performed on October 28, 1992, NHDES
	Sample #220009
AUTHOR:	Scott Doane, NHDES
RECIPIENT:	Wayne Wood, Newington, NH
	Richard Pease, NHDES
	Mark McKenzie, Pease AFB
DATE:	11 December 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER	PEA (6.3) #36 001-Attachment 6
LONG TITLE:	Quarterly Report, Second Quarter 1991
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES, USAF
DATE:	19 July 1991
TYPE:	Quarterly Report
SECOND REFERENCE: LOCATION:	None ARF, Art Ditto's office files
EOCATION.	
	*
DOCUMENT NUMBER	PEA (6.3) #37 001-034
LONG TITLE:	Quarterly Report, Third Quarter 1991
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES, USAF
DATE:	24 October 1991
TYPE:	Quarterly Report, Transmittal Letters
SECOND REFERENCE:	None
LOCATION:	ARF, Art Ditto's office files
	*
DOCUMENT NUMBER:	PEA (6.3) #38 001-030
LONG TITLE:	Quarterly Report, Fourth Quarter 1991
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES, USAF
DATE:	14 January 1992
TYPE:	Quarteriy Report
SECOND REFERENCE:	None
LOCATION:	ARF, Art Ditto's office files
	*

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RECIPIENT:	U.S. EPA/NHDES/USAF Attendees
DATE:	3 June 1992
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (6.3) #29 001-003
LONG TITLE:	Remedial Project Managers' Meeting Minutes of August 21, 1991
AUTHOR:	Arthur Ditto, RPM
	USAF/Pease AFB
RECIPIENT:	U.S. EPA/NHDES/USAF Attendees
DATE:	Meeting Date: 21 August 1992
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (6.3) #30 001-003
LONG TTTLE:	Remedial Project Managers' Meeting Minutes - September 10, 1992
AUTHOR:	Arthur Ditto, RPM
	USAF/Pease AFB
RECIPIENT:	U.S. EPA/NHDES/USAF Attendees
DATE:	10 September 1992
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER	PEA (6.3) #31 001-002
LONG TITLE:	New Hampshire Sites Where SVE is Used for NAPL Removal
AUTHOR:	John Regan, NHDES
RECIPIENT:	Art Ditto, Pease AFB
	Mike Daty, USEPA
	Richard Pease, NHDES
	Scott Doane, NHDES
DATE:	30 September 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (6.3) #32 001-002
LONG TTTLE:	Remedial Project Managers' Meeting Minutes - October 20, 1992
AUTHOR:	Arthur Ditto. RPM
RECIPIENT:	EPA, NHDES, USAF
	Attendees
DATE:	20 October 1992
TYPE:	Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (6.3) #33 001-003
LONG TITLE:	Application of the Reasonable Maximum Exposure (RME) in Risk Assessments; Request for Site Specific Justification
	for Using the "Average Maximum"
AUTHOR:	Richard Pease, NHDES
RECIPIENT:	Art Ditto, Pease AFB
	Johanna Hunter, USEPA
	Capt. Woerhle, AFCEE

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DOCUMENT NUMBER: PEA (6.3) #23 001-003 Remedial Project Managers' Meeting Minutes LONG TITLE: AUTHOR: Arthur Ditto, RPM USAF/Pease AFB **RECIPIENT:** U.S. EPA/NHDES/USAF Attendees DATE: 27 January 1992 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #24 001-003 LONG TITLE: Remedial Project Managers' Meeting Minutes AUTHOR: Arthur Ditto, RPM USAF/Pease AFB RECIPIENT: U.S. EPA/NHDES/USAF Attendees DATE: 25 February 1992 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #25 001-002 LONG TITLE: Remedial Project Managers' Meeting Minutes AUTHOR: Arthur Ditto, RPM USAF/Pease AFB RECIPIENT: U.S. EPA/NHDES/USAF Attendees DATE: 07 April 1992 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #26 001-004 LONG TITLE: NH Wetlands Permit for National Priorities List Related Work AUTHOR: USAF RECIPIENT: NHDES Wetlands Board P.O. Box 2008 Concord, NH 03301-2008 DATE: 24 April 1992 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF # DOCUMENT NUMBER: PEA (6.3) #27 001-002 Remedial Project Managers' Meeting Minutes LONG TITLE: AUTHOR: USAF RECIPIENT: See Distribution DATE: 22 April 1992 TYPE: Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #28 001-008 Remedial Project Managers' Meeting Minutes, June 3, 1992 LONG TTTLE: AUTHOR: Arthur Ditto, RPM USAF/Pease AFB

DATE: 24 July 1991 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #18 001-004 Remedial Project Managers' Meeting Minutes of September 26, 1991 LONG TITLE: AUTHOR: Arthur Ditto, RPM USAF/Pease AFB RECIPIENT: U.S. EPA/NHDES/USAF Attendees 21 August 1991 DATE: TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #19 001-004 Remedial Project Managers' Meeting Minutes LONG TITLE: Arthur Ditto, RPM AUTHOR: USAF/Pease AFB **RECIPIENT:** U.S. EPA/NHDES/USAF Attendees DATE: 26 September 1991 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #20 001-004 Remedial Project Managers' Meeting Minutes LONG TITLE: AUTHOR: Arthur Ditto, RPM USAF/Pease AFB RECIPIENT: U.S. EPA/NHDES/USAF Attendees DATE: 27 October 1991 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #21 001-003 Remedial Project Managers' Meeting Minutes LONG TITLE: AUTHOR: Arthur Ditto, RPM USAF/Pease AFB RECIPIENT: U.S. EPA/NHDES/USAF Attendees DATE: 20 November 1991 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #22 001-003 LONG TITLE: Remedial Project Managers' Meeting Minutes of January 27, 1992 AUTHOR: Arthur Ditto, RPM USAF/Pease AFB RECIPIENT: U.S. EPA/NHDES/USAF Attendees DATE: 19 December 1991 TYPE: Meeting Minutes SECOND REFERENCE: None

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LOCATION:

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LONG TITLE: Remedial Project Managers' Meeting Minutes AUTHOR: USAF RECIPIENT: See Distribution DATE: 20 March 1991 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF d. DOCUMENT NUMBER. PEA (6.3) #13 001-004 Remedial Project Managers' Meeting Minutes of April 17, 1991 LONG TTTLE: AUTHOR: Arthur Ditto, RPM USAF/Pease AFB **RECIPIENT:** U.S. EPA/NHDES/USAF Attendees DATE: 17 April 1991 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #14 001-003 LONG TITLE: Remedial Project Managers' Meeting Minutes of May 21, 1991 AUTHOR: Arthur Ditto, RPM USAF/Pease AFB U.S. EPA/NHDES/USAF Attendees **RECIPIENT:** DATE: 21 May 1991 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #15 001-004 Notification of Additional Investigative Work in a Wetland LONG TITLE: AUTHOR: USAF **RECIPIENT:** NHDES Wetlands Board P.O. Box 2008 Concord, NH 03301-3406 DATE: 14 June 1991 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #16 001-003 LONG TITLE: Remedial Project Managers' Meeting Minutes of July 24, 1991 AUTHOR: Arthur Ditto, RPM USAF/Pease AFB **RECIPIENT:** U.S. EPA/NHDES/USAF Attendees DATE: 24 June 1991 TYPE: Meeting Minutes SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (6.3) #17 001-003 LONG TITLE: Remedial Project Managers' Meeting Minutes of August 26, 1991 AUTHOR: Arthur Ditto, RPM USAF/Pease AFB **RECIPIENT:** U.S. EPA/NHDES/USAF Attendees

6.3 Coordination - State / Federal

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TYPE:	Agenda and Meeting Notes
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (6.3) #7 001-025
LONG TITLE:	"Letter response to Air Force letter of 22 August 1990 regarding CERCLA remedial actions at Pease Air Force Base,
	404 permit not required"
AUTHOR:	Department of the Army
RECIPIENT:	Air Force
DATE:	3 October 1990
TYPE:	Response Letter
SECOND REFERENCE:	None
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (6.3) #8 001-033
LONG TITLE:	"Point Paper on Installation Restoration Program (Pease AFB) and Attachments (Prepared for a meeting of J. Coit
	and M. Aldrich, of Senator Humphrey's office, with Pease, NHDES, WESTON, and OEHL)"
AUTHOR:	Pease Air Force Base
RECIPIENT:	J. Coit & M. Aldrich of Senator Humphrey's Office
DATE: TYPE:	31 March 1989 Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (6.3) #9 001-003
LONG TITLE:	"Recommendation to Place Pease AFB on the National Priority List (NPL)"
AUTHOR:	Department of the Air Force
RECIPIENT:	US EPA
DATE:	27 June 1989
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (6.3) #10 001-004
LONG TITLE:	Remedial Project Managers' Meeting Minutes of January 16, 1991
AUTHOR:	Arthur Ditto, RPM
	USAF/Pease AFB
RECIPIENT:	U.S. EPA/NHDES/USAF Attendees
DATE:	Meeting Date: 16 January 1991
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (6.3) #11 001-004
LONG TITLE:	
	Remedial Project Managers' Meeting Minutes of February 20, 1991
AUTHOR:	Arthur Ditto, RPM
	USAF/Pease AFB
RECIPIENT:	U.S. EPA/NHDES/USAF Attendees
DATE:	Meeting Date: 20 February 1991
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (6.3) #12 001-004
DOCUMENT NUMBER	

6.3 Coordination - State / Federal

6.3 Coordination - State / Federal

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DOCUMENT NUMBER	DEA (52) #1 001 002
DOCUMENT NUMBER:	PEA (6.3) #1 001-003
LONG TITLE:	"Meeting minutes from Air Force meeting with state officials concerning Pease Air Force Base IRP"
AUTHOR:	U.S. Air Force
RECIPIENT:	See Distribution List
DATE:	11 March 1987
TYPE:	Meeting Minutes
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (6.3) #2 001-002
LONG TITLE:	"Agenda for Meeting with State DES, Air Force, and EPA Technical Team"
AUTHOR:	Pease Air Force Base
RECIPIENT:	See Distribution List
DATE:	26 April 1990
TYPE:	Agenda
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (6.3) #3 001-031
LONG TITLE:	"Completed Applications for Department of the Army Permit (ENG Form 435) and New Hampshire Wetlands Board
	Permit"
AUTHOR:	Department of the Air Force
RECIPIENT:	Army Corps of Engineers, New England Division
DATE:	31 August 1989
TYPE:	Letter and Attachments
SECOND REFERENCE:	None
LOCATION:	ARF
LOCATION:	AKF #
LOCATION:	
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DOCUMENT NUMBER:	# PEA (6.3) #4 001-002
	# PEA (6.3) #4 001-002 "Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant
DOCUMENT NUMBER: LONG TITLE:	# PEA (6.3) #4 001-002 "Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)"
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	# PEA (6.3) #4 001-002 "Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)" US EPA
DOCUMENT NUMBER: LONG TITLE:	# PEA (6.3) #4 001-002 "Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)"
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	# PEA (6.3) #4 001-002 "Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)" US EPA
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	# PEA (6.3) #4 001-002 "Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)" US EPA Air Force
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	# PEA (6.3) #4 001-002 "Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)" US EPA Air Force 29 September 1989 Letter
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	# PEA (6.3) #4 001-002 "Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)" US EPA Air Force 29 September 1989 Letter None
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	<pre># PEA (6.3) #4 001-002 Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)* US EPA Air Force 29 September 1989 Letter None ARF # PEA (6.3) #5 001-002 Letter in response to Air Force question regarding necessity of a permit for the proposed landfill cleanup operation</pre>
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	<pre># PEA (6.3) #4 001-002 Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)* US EPA Air Force 29 September 1989 Letter None ARF PEA (6.3) #5 001-002 Letter in response to Air Force question regarding necessity of a permit for the proposed landfill cleanup operation" Department of the Army</pre>
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	# PEA (6.3) #4 001-002 Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)* US EPA Air Force 39 September 1989 Letter None ARF PEA (6.3) #5 001-002 Letter in response to Air Force question regarding necessity of a permit for the proposed landfill cleanup operation* Department of the Army Air Force 17 October 1989 Letter None ARF
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	# PEA (6.3) #4 001-002 "Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)" US EPA Air Force 39 September 1989 Letter None ARF PEA (6.3) #5 001-002 "Letter in response to Air Force question regarding necessity of a permit for the proposed landfill cleanup operation" Department of the Army Air Force 17 October 1989 Letter None
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	# PEA (6.3) #4 001-002 *Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)* US EPA Air Force 29 September 1989 Letter None ARF PEA (6.3) #5 001-002 * * PEA (6.3) #5 001-002 * * Tetter in response to Air Force question regarding necessity of a permit for the proposed landfill cleanup operation* Department of the Army Air Force 17 October 1989 Letter None ARF * *
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	# PEA (6.3) #4 001-002 Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)* US EPA Air Force 39 September 1989 Letter None ARF PEA (6.3) #5 001-002 Letter in response to Air Force question regarding necessity of a permit for the proposed landfill cleanup operation* Department of the Army Air Force 17 October 1989 Letter None ARF # PEA (6.3) #6 001-001
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LOCATION:	# PEA (6.3) #4 001-002 "Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)" US EPA Air Force 29 September 1989 Letter None ARF # PEA (6.3) #5 001-002 "Letter in response to Air Force question regarding necessity of a permit for the proposed landfill cleanup operation" Department of the Army Air Force 17 October 1989 Letter None ARF # PEA (6.3) #6 001-001 "Agenda and Notes for Working Meeting with U.S. EPA and State of New Hampshire"
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LOCATION:	# PEA (6.3) #4 001-002 "tetter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)" US EPA Air Force 29 September 1989 Letter None ARF # PEA (6.3) #5 001-002 "Letter in response to Air Force question regarding necessity of a permit for the proposed landfill cleanup operation" Department of the Army Air Force 17 October 1989 Letter None ARF # PEA (6.3) #6 001-001 "Are force "PEA (6.3) #6 001-001 "Are force "Are force Sagnada and Notes for Working Meeting with U.S. EPA and State of New Hampshire" US Air Force Sagnada and Notes for Working Meeting with U.S. EPA and State of New Hampshire"
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LOCATION:	# PEA (6.3) #4 001-002 "Letter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)" US EPA Air Force 29 September 1989 Letter None ARF PEA (6.3) #5 001-002 "Letter in response to Air Force question regarding necessity of a permit for the proposed landfill cleanup operation" Department of the Army Air Force 17 October 1989 Letter None ARF # PEA (6.3) #6 001-001 "A defa and Notes for Working Meeting with U.S. EPA and State of New Hampshire" US Air Force See Distribution List
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LOCATION:	# PEA (6.3) #4 001-002 "tetter regarding emergency discharge exclusion from the requirement for a permit under the National Pollutant Discharge Elimination System (NPDES)" US EPA Air Force 29 September 1989 Letter None ARF # PEA (6.3) #5 001-002 "Letter in response to Air Force question regarding necessity of a permit for the proposed landfill cleanup operation" Department of the Army Air Force 17 October 1989 Letter None ARF # PEA (6.3) #6 001-001 "Are force "PEA (6.3) #6 001-001 "Are force "Are force Sagnada and Notes for Working Meeting with U.S. EPA and State of New Hampshire" US Air Force Sagnada and Notes for Working Meeting with U.S. EPA and State of New Hampshire"

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LOCATION:	ARF. IR
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DOCUMENT NUMBER:	PEA (6.2) #7 001-002
LONG TITLE:	"Remedial Project Managers Meeting Minutes"
AUTHOR:	Pease Air Force Base
RECIPIENT:	See Distribution List
DATE:	24 June 1991
TYPE:	Meeting Minutes
SECOND REFERENCE:	None

ARF, IR

LOCATION:

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6.2 Federal Facility Agreement (FFA)

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (6.2) #1 001-097 "Federal Facility Agreement under CERCLA Section 120" U.S. EPA, Region I, State of New Hampshire and the U.S. Department of the Air Force" EPA. NHDES, Air Force 24 April 1991 Federal Facility Agreement None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (6.2) #2 001-003 "Remedial Project Managers Meeting Minutes" Pease Air Force Base See Distribution List 16 January 1991 Meeting Minutes None ARF. IR #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (6.2) #3 001-003 "Remedial Project Managers Meeting Minutes" Pease Air Force Base See Distribution List 20 February 1991 Meeting Minutes None ARF, IR #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (6.2) #4 001-003 "Remedial Project Managers Meeting Minutes" Pease Air Force Base See Distribution List 20 March 1991 Meeting Minutes None ARF, IR #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (6.2) #5 001-002 "Remedial Project Managers Meeting Minutes" Pease Air Force Base See Distribution List 17 April 1991 Meeting Minutes None ARF, IR #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (6.2) #6 001-002 "Remedial Project Managers Meeting Minutes" Pease Air Force Base See Distribution List 21 May 1991 Meeting Minutes None

4.

6.1 Cooperative Agreements / SMOAs

DOCUMENT NUMBER:	PEA (6.1) #1 001-013
LONG TTTLE:	"Memorandum of Understanding Executed Between the Town of Newington. NH. and Pease Air Force Base. NH"
AUTHOR:	Town of Newington/Pease Air Force Base
RECIPIENT:	Air Force
DATE:	22 August 1980
TYPE:	Memorandum of Understanding
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (6.1) #2 001-004
LONG TITLE:	"Memorandum of Understanding (MOU) between the U.S. Air Force Occupational and Environmental Health
	Laboratory (USAFOEHL) and Pease Air Force Base relating to procedures for conducting the IRP*
AUTHOR:	U.S. Department of the Air Force
RECIPIENT:	Air Force
DATE:	31 July 1987
TYPE:	Memorandum of Understanding
SECOND REFERENCE:	None
LOCATION:	ARF
#	

5.4 Correspondence

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (5.4) #1 001-001 Region 1 ROD Model Language USAF Johanna Hunter. USEPA Unknown Letter None ARF
	*
DOCUMENT NUMBER:	PEA (5.4) #2 001-001
LONG TITLE:	Submittal of Draft Primary Document, Site 34 Record of Decision
AUTHOR:	Arthur Ditto, Pease AFB
RECIPIENT:	Mike Daly, EPA Region 1
DATE:	17 June 1993
TYPE:	Letter
SECOND REFERENCE:	Site 34
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (5.4) #3 001-001
LONG TITLE:	Submittal of Draft Primary Document, Site 34 Record of Decision
AUTHOR:	Arthur Ditto, Pease AFB
RECIPIENT:	Richard Pease, NHDES
DATE:	17 June 1993
TYPE:	Letter
SECOND REFERENCE:	Site 34

ARF

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LOCATION:

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5.3 Explanations of Significant Differences

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* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

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• NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

5.1 ROD

DOCUMENT NUMBER:	PEA (5.1) #1 001-D4	
LONG TITLE:	Pease AFB Site 34 Record of Decision	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	USAF	
DATE:	June 1993	
TYPE:	ROD	
SECOND REFERENCE:	Site 34	
LOCATION:	ARF	
#		
DOCUMENT NUMBER:	PEA (5.1) #2 001-C.11	
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Landfill 5 Record of Decision Text DRAFT	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	USAF	
DATE:	June 1993	
TYPE:	ROD	
SECOND REFERENCE:	LF-5	
LOCATION:	ARF	
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.5) #53 001-001 Submittal of Draft Secondary Document. Zone 1 Initial Screening of Alternatives Arthur Ditto, Pease AFB Mike Daly, EPA Region 1 3 June 1993 Letter Zone 1 ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.5) #54 001-001 Submittal of Proposed Plans for Landfills 2 and 4 and Landfill 5 Arthur Ditto. Pease AFB Mike Daly, EPA Region 1 Richard Pease. NHDES 25 June 1993 Letter LF-2, LF-4, LF-5 ARF
Louinon	#
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.5) #55 001-001 Submittal of Draft Primary Document, Zone 5 Draft Feasibility Study Arthur Ditto, Pease AFB Richard Pease, NHDES 14 July 1993 Letter Zone 5 ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.5) #56 001-001 Submittal of Draft Primary Document, Zone 5 Draft Feasibility Study Arthur Ditto, Pease AFB Mike Daly, EPA Region 1 14 July 1993 Letter Zone 5 ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.5) #57 001-002 Submittal of the Revised Site 8 Proposed Plan Arthur Ditto. Pease AFB Mike Daly, EPA Region 1 Richard Pease, NHDES 28 July 1993 Letter Site 8 ARF

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DOCUMENT NUMBER:	PEA (4.5) #47 001-002
LONG TTTLE:	Site 32/36 and Sit 34 Draft Final Proposed Plans
AUTHOR:	NHDES
RECIPIENT:	Art Ditto, AFBDA
DATE:	12 February 1993
TYPE:	Letter
SECOND REFERENCE:	Sites 32/36; Site 34; Pea (4.3)
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.5) #48 001-001
LONG TITLE:	Submittal of Draft Secondary Document, Zone 4 Initial Screening of Alternatives
AUTHOR:	Arthur Ditto. Pease AFB
RECIPIENT:	Johanna Hunter, EPA Region 1
DATE:	5 April 1993
TYPE:	Letter
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	#
	"
DOCUMENT NUMBER:	PEA (4.5) #49 001-001
LONG TITLE:	Submittal of Draft Secondary Document, Zone 4 Initial Screening of Alternatives
AUTHOR:	Arthur Ditto, Pease AFB
RECIPIENT:	Richard Pease, NHDES
DATE:	5 April 1993
TYPE:	Letter
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
LOCATION.	4. #
	*
DOCUMENT NUMBER	PEA (4.5) #50 001-001
LONG TITLE:	Submittal of Draft Secondary Document, Zone 3 Initial Screening of Alternatives
AUTHOR:	Arthur Ditto, Pease AFB
RECIPIENT:	Johanna Hunter, EPA Region 1
DATE:	
TYPE:	17 May 1993 Letter
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
LUCATION:	4KF #
	*
DOCUMENT NUMBER	PEA (4.5) #51 001-001
LONG TITLE:	Submittal of Draft Secondary Document, Zone 3 Initial Screening of Alternatives
AUTHOR:	Arthur Ditto, Pease AFB
RECIPIENT:	Richard Pease, NHDES
DATE:	17 May 1993
TYPE:	Letter
SECOND REFERENCE:	
LOCATION:	Zone 3
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.5) #52 001-001
LONG TITLE:	Submittal of Draft Secondary Document, Zone 1 Initial Screening of Alternatives
AUTHOR:	Arthur Ditto, Pease AFB
RECIPIENT:	Richard Pease, NHDES
DATE:	3 June 1993
TYPE:	Letter
SECOND REFERENCE:	Zone 1
LOCATION:	ARF

4.5 Correspondence

TYPE: SECOND REFERENCE: LOCATION:	Letter Zone 5 ARF
	#
DOCUMENT NUMBER:	PEA (4.5) #41 001-001
LONG TITLE:	Submittal of Draft Secondary Document, Zone 5 Initial Screening of Alternatives
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, USEPA
DATE:	12 March 1993
TYPE:	Lette:
SECOND REFERENCE:	Zone 5
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.5) #42 001-001
LONG TTTLE:	Submittal of the Sites 32/36 and 34 Draft Final Proposed Plan
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, USEPA
	Richard Pease, NHDES
DATE:	9 March 1993
TYPE:	Letter
SECOND REFERENCE:	Site 32/36; Site 34
LOCATION:	ARF
DOCUMENT NUMBER:	# PEA (15) #42.001.004
LONG TITLE:	PEA (4.5) #43 001-004 Selection of Remedial Action Alternations for Site 8, EDTA 2
	Selection of Remedial Action Alternatives for Site 8, FDTA-2 NHDES
AUTHOR: RECIPIENT:	Art Ditto, AFBDA
DATE:	12 February 1993
TYPE:	Letter
SECOND REFERENCE:	
LOCATION:	PEA (6.3) ARF
LOCATION:	#
DOCUMENT NUMBER:	# PEA (4.5) #44 001-002
LONG TITLE:	Submittal of the Sites 32/36 and 34 Draft Final Proposed Plan
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, EPA
	Richard Pease, NHDES
DATE:	03 February 1993
TYPE:	Letter
SECOND REFERENCE:	PEA (6.3); Sites 32/36; Site 34
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (4.5) #45 001-001
LONG TITLE:	Submittal of Draft Final Primary Document, Site 8 Feasibility Study Report
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, EPA
DATE:	29 February 1993
TYPE:	Letter
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.5) #46 001-001
LONG TITLE:	Submittal of Draft Final Primary Document, Site 8 Feasibility Study Report
LONG TITLE: AUTHOR:	Submittal of Draft Final Primary Document, Site 8 Feasibility Study Report USAF
LONG TITLE: AUTHOR: RECIPIENT:	Submittal of Draft Final Primary Document, Site 8 Feasibility Study Report USAF Richard Pease, NHDES
LONG TITLE: AUTHOR: RECIPIENT: DATE:	Submittal of Draft Final Primary Document, Site 8 Feasibility Study Report USAF Richard Pease, NHDES 29 January 1993
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Submittal of Draft Final Primary Document, Site 8 Feasibility Study Report USAF Richard Pease, NHDES 29 January 1993 Letter
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Submittal of Draft Final Primary Document, Site 8 Feasibility Study Report USAF Richard Pease, NHDES 29 January 1993 Letter Site 3
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Submittal of Draft Final Primary Document, Site 8 Feasibility Study Report USAF Richard Pease, NHDES 29 January 1993 Letter

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4.5 Correspondence

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DATE: 10 December 1992 TYPE: Letter SECOND REFERENCE: Site 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #35 001-001 Submittal of Draft Final Primary Document. Site 32/36 Feasibility Study Report LONG TITLE: AUTHOR: USAF RECIPIENT: Richard Pease, NHDES DATE: 14 December 1992 TYPE: Letter SECOND REFERENCE: Site 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #36 001-001 LONG TITLE: Submittal of Draft Final Primary Document, Site 32/36 Feasibility Study Report AUTHOR: USAF RECIPIENT: Johanna Hunter, USEPA DATE: 14 December 1992 TYPE: Letter SECOND REFERENCE: Site 32/36 LOCATION: ARF # DOCUMENT NUMBER: PEA (4.5) #37 001-001 LONG TITLE: Submittal of Buildings 113/119 and Building 222 Draft Proposed Plan AUTHOR: USAF RECIPIENT: Richard Pease, NHDES DATE: 16 December 1992 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF 1 DOCUMENT NUMBER: PEA (4.5) #38 001-001 LONG TITLE: Submittal of Buildings 113/119 and Building 222 Draft Proposed Plan AUTHOR: USAF **RECIPIENT:** Johanna Hunter, USEPA DATE: 16 December 1992 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF # DOCUMENT NUMBER: PEA (4.5) #39 001-001 LONG TITLE: Submittal of the Draft Site 8 Proposed Plan AUTHOR: USAF RECIPIENT: Richard Pease, NHDES Johanna Hunter, USEPA DATE: 23 March 1993 TYPE: Letter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #40 001-001 LONG TITLE: Submittal of Draft Secondary Document, Zone 5 Initial Screening of Alternatives AUTHOR: USAF RECIPIENT: Richard Pease, NHDES DATE: 12 March 1993

LOCATION	
LOCATION:	ARF #
	•
DOCUMENT NUMBER:	PEA (4.5) #29 001-001
LONG TTTLE: ALTHOR:	Submittal of Draft Final Primary Document, Site 34 Feasibility Study Report USAF
RECIPIENT:	Johanna Hunter, USEPA
DATE:	24 November 1992
TYPE:	Letter
SECOND REFERENCE:	Site 34
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.5) #30 001-001
LONG TITLE:	Submittal of Draft Final Primary Document, Site 34 Feasibility Study Report
ALTHOR:	USAF
RECIPIENT:	Richard Pease. NHDES
DATE:	24 November 1992
TYPE:	Letter
SECOND REFERENCE:	Site 34
LOCATION:	ARF #
	π.
DOCUMENT NUMBER:	PEA (4.5) #31 001-001
LONG TITLE:	Determination of Site Boundaries at the Time of Remedial Action Implementation (Will Migrate to Proposal)
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, USEPA
D 4 77	Richard Pease, NHDES
DATE: TYPE:	2 December 1992 Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.5) #32 001-002
LONG TITLE:	Request for Deadline Extension
AUTHOR: RECIPIENT:	USAF Johanna Hunter, USEPA
RECH ILNI.	Richard Pease. NHDES
DATE:	4 December 1992
TYPE:	Letter
SECOND REFERENCE:	Site 34
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (4.5) #33 001-001
LONG TITLE:	Site 34 GWTP ITTR
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, USEPA
	Richard Pease. NHDES
DATE:	9 December 1992
TYPE:	Letter
SECOND REFERENCE:	Site 34
LOCATION:	ARF #
	7
DOCUMENT NUMBER:	PEA (4.5) #34 001-002
LONG TITLE:	Pease Air Force Base Draft Final IRP Site 32/36 FS Report
AUTHOR:	Lee dePersia, Roy F. Weston, Inc.
RECIPIENT	Jim Snyder. USAF

4.5 Correspondence

SECOND REFERENCE: Landfill 5 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #24 001-004 LONG TITLE: Pass Air Force Bass Site 8 Draft Feasibility Study AUTHOR: Roy F. Weston, Inc. RECIPIENT: USAF NHDES USEPA DATE: 39 October 1992 LUSEFA DATE: 39 October 1992 LUSEFA DOCUMENT NUMBER: PEA (4.5) #25 001-001 LONG TITLE: ARF DOCUMENT NUMBER: PEA (4.5) #25 001-001 LONG TITLE: 3 November 1992 TYPE: Latter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #26 001-001 LONG TITLE: 3 November 1992 TYPE: Latter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #26 001-001 LONG TITLE: 3 November 1992 TYPE: Latter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #26 001-001 LONG TITLE: 3 November 1992 TYPE: Latter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #26 001-001 LONG TITLE: 3 November 1992 TYPE: Latter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #27 001-001 LONG TITLE: ANGEN PEA (4.5) #27 001-001 LONG TITLE: Latter SECOND REFERENCE: LATTER DOCUMENT NUMBER: PEA (4.5) #25 001-002 LONG TITLE: ALTER AREA, NHDES DATE: 17 November 1992 TYFE: Latter SECOND REFERENCE: SECOND SECOND REFERENCE:	AUTHOR: RECIPIENT: DATE: TYPE:	USAF Richard Pease, NHDES 18 August 1992 Letter
LONG TITLE: Pease Air Force Base Site 8 Draft Feasibility Study AUTHOR: RCIPIENT: USAF RECIPIENT: USAF DATE: 29 October 1992 TYPE: Letter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #25 001-001 LONG TITLE: Johanna Hunter, USEPA DATE: 3 November 1992 TYPE: Letter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: Data Pease, NHDES LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #26 001-001 LONG TITLE: Submittal of Draft Primary Document, Site 8 Feasibility Study Report AUTHOR: USAF RECIPIENT: Johanna Hunter, USEPA DATE: 3 November 1992 TYPE: Letter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #26 001-001 LONG TITLE: Submittal of Draft Primary Document, Site 8 Feasibility Study Report AUTHOR: USAF RECIPIENT: Richard Pease, NHDES DATE: 3 November 1992 TYPE: Letter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #27 001-001 LONG TITLE: Auffill 5 Draft Proposed Plan AUTHOR: USAF RECIPIENT: Johanna Hunter, USEPA Michard Pease, NHDES DATE: 17 November 1992 TYPE: Letter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #27 001-001 LONG TITLE: Landfill 5 Draft Proposed Plan AUTHOR: USAF RECIPIENT: Johanna Hunter, USEPA Richard Pease, NHDES DATE: 17 November 1992 TYPE: Letter SECOND REFERENCE: Landfill 5 DATE: NUMBER: PEA (4.5) #28 001-002 LONG TITLE: ARF DOCUMENT NUMBER: PEA (4.5) #28 001-002 LONG TITLE: DATE PEA (4.5) #28 001-002 LONG TITLE: PEA (4.5) #28 001-002 PEA (4.5) #20 November 1992 TYPE: Letter		ARF
RECIPIENT: USAF NIDES USEPA DATE: 29 October 1992 TYPE: Letter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #25 001-001 LONG TITLE: Submittal of Draft Primary Document, Site 8 Feasibility Study Report AUTHOR: USAF RECIPTENT: Johanna Hunter, USEPA DATE: 3 November 1992 TYPE: Letter SECOND REFERENCE: Site 5 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #26 001-001 LONG TITLE: Submittal of Draft Primary Document, Site 8 Feasibility Study Report AUTHOR: USAF RECIPTENT: Richard Pease, NHDES DATE: 3 November 1992 TYPE: Letter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #27 001-001 LONG TITLE: Landfill 5 Draft Proposed Plan LONG TITLE: Landfill 5 Draft Proposed Plan LONG TITLE: Landfill 5 DOCUMENT NUM		
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	SECOND REFERENCE:	Site 34

4.5 Correspondence

TYPE: Letter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #18 001-002 LONG TITLE: Feasibility Study Reports AUTHOR: USAF RECIPIENT: Johanna Hunter, USEPA Richard Pease, NHDES DATE: 10 August 1992 TYPE: Letter SECOND REFERENCE: Sites 5. 34. and 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #19 001-001 LONG TITLE: Submittal of Landfill 5 Draft Proposed Plan AUTHOR: USAF RECIPIENT: Johanna Hunter, USEPA DATE: 12 August 1992 TYPE: Letter Landfill 5 SECOND REFERENCE: LOCATION: ARF PEA (4.5) #20 001-001 DOCUMENT NUMBER: LONG TITLE: Submittal of Landfill 5 Draft Proposed Plan USAF AUTHOR: Richard Pease, NHDES RECIPIENT: DATE: 12 August 1992 TYPE: Letter SECOND REFERENCE: Landfill 5 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #21 001-003 LONG TITLE: Landfill 5 Source Area Draft Final Feasibility Study Report AUTHOR: Edward S. Barnes, Roy F. Weston, Inc. RECIPIENT: USAF Johanna Hunter, USEPA Richard Pease, NHDES DATE: 14 August 1992 TYPE: Letter SECOND REFERENCE: Landfill 5 ARF LOCATION: DOCUMENT NUMBER: PEA (4.5) #22 001-001 LONG TITLE: Submittal of Draft Final Primary Document, Landfill 5 Feasibility Study Report AUTHOR: USAF RECIPIENT: Johanna Hunter, USEPA 18 August 1992 DATE: TYPE: Letter SECOND REFERENCE: Landfill 5 LOCATION: ARF PEA (4.5) #23 001-001 DOCUMENT NUMBER: Submittal of Draft Final Primary Document. Landfill 5 Feasibility Study Report LONG TITLE: 4.5 Correspondence

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LOCATION:	ARF
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.5) #12 001-001 Submittal of Draft Primary Document. Site 32/36 Feasibility Study Report USAF Richard Pease, NHDES 19 May 1992 Letter Site 32/36 ARF #
	π
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.5) #13 001-001 Request for Deadline Extension for Review of the Draft IRP Site 5 Feasibility Report Dated April 1992 Johanna M. Hunter, USEPA Art Ditto, Pease AFB 22 May 1992 Letter Site 5 ARF
	*
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	PEA (4.5) #14 001-001 Document Submittals USAF Johanna Hunter, USEPA Richard Pease, NHDES
DATE:	26 May 1992
TYPE: SECOND REFERENCE: LOCATION:	Letter Pea (10.1); Site 34 ARF
	#
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.5) #15 001-002 Selection of Remedial Action Alternative for JETC. IRP Site 34 USAF Johanna Hunter, USEPA Richard Pease, NHDES 28 May 1992 Letter Site 34 ARF
	#
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.5) #16 001-001 Submittal of Draft Secondary Document, Site 8 Initial Screening of Alternatives USAF Johanna Hunter, USEPA 24 June 1992 Letter Site 8 ARF #
	7
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	PEA (4.5) #17 001-001 Submittal of Draft Secondary Document, Site 8 Initial Screening of Alternatives USAF Richard Pease, NHDES 24 June 1992

DATE: 09 January 1992 TYPE: Letter SECOND REFERENCE: Site 32/36; Site 34 LOCATION: ARF # DOCUMENT NUMBER: PEA (4.5) #7 001-001 LONG TITLE: Submittal of Secondary Document AUTHOR: USAF RECIPIENT: Johanna Hunter, USEPA 09 January 1992 DATE: TYPE: Letter SECOND REFERENCE: Site 32/36; Site 34 LOCATION: ARF # DOCUMENT NUMBER: PEA (4.5) #8 001-001 LONG TITLE: Landfill 3 Decision Document AUTHOR: USAF Edward S. Barnes **RECIPIENT:** Rov F. Weston, Inc. 1 Weston Way West Chester, PA 19380 DATE: 03 February 1992 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF # DOCUMENT NUMBER: PEA (4.5) #9 001-004 LONG TITLE: Jet Engine Test Cell Source Area Feasibility Study Report AUTHOR: Edward S. Barnes, Roy F. Weston, Inc. **RECIPIENT:** USAF Johanna Hunter USEPA Richard Pease, NHDES DATE: 04 May 1992 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #10 001-005 LONG TITLE: Pease AFB Site 32/36 Feasibility Study Report AUTHOR: Edward S. Barnes, Roy F. Weston, Inc. USAF **RECIPIENT:** Johanna Hunter, USEPA Richard Pease, NHDES DATE: 15 May 1992 TYPE: Letter SECOND REFERENCE: Site 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (4.5) #11 001-001 LONG TITLE: Submittal of Draft Primary Document, Site 32/36 Feasibility Study Report AUTHOR: USAF **RECIPIENT:** Johanna Hunter, USEPA DATE: 19 May 1992 TYPE: Letter SECOND REFERENCE: Site 32/36

4.5 Correspondence

4.5 Correspondence

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DOCUMENT NUMBER	PEA (4.5) #1 001-006
LONG TITLE:	"IRP Proposed Plan for Landfill 3, Field Maintenance Squadron Equipment Cleaning Site, Fire Department Training
20110 1122	Area 1 (October 1990, draft) Review Comments"
AUTHOR:	State of New Hampshire. Department of Environmental Services
RECIPIENT:	Air Force
DATE:	27 November 1990
TYPE:	State of New Hampshire Review Comments
SECOND REFERENCE:	None
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (45) #2 001-016
LONG TITLE:	"EPA Region I comments on the IRP Proposed Plan for Landfill 3, Field Maintenance Squadron Equipment Cleaning
	Site, Fire Department Training Area 1 (October 1990, draft)"
AUTHOR:	U.S. EPA
RECIPIENT:	Air Force
DATE:	28 November 1990
TYPE	EPA Review Comments
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.5) #3 001-008
LONG TITLE:	*EPA Region I additional comments on the IRP proposed plan for Landfill 3, field maintenance squadron equipment
	cleaning site, Fire Department Training Area 1 (October 1990, draft); review comments"
AUTHOR:	U.S. EPA
RECIPIENT:	Air Force
DATE:	3 December 1990
TYPE:	Review Comments
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER	PEA (4.5) #4 001-001
LONG TTILE:	Submittai of Draft Final Primary Document, Landfill 5 Feasibility Study Report
AUTHOR:	USAF
RECIPIENT:	Richard Pease, NHDES
DATE:	Unknown
TYPE:	Letter
SECOND REFERENCE:	Landfill 5
LOCATION:	ARF
	*
	PEA (4.5) #5 001-002
DOCUMENT NUMBER:	
LONG TITLE:	Applicable or Relevant and Appropriate Requirements (ARARs) Richard Pease, NHDES
AUTHOR:	Art Ditto, Pease AFB
RECIPIENT:	25 November 1991
DATE:	
TYPE: SECOND REFERENCE:	Letter Pea (6.4)
SECOND REFERENCE:	ARF
LOCATION:	ANT #
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DOCUMENT NUMBER:	PEA (4.5) #6 001-001
LONG TITLE:	Submittal of Secondary Document
AUTHOR:	USAF
RECIPIENT:	Richard Pease, NHDES

4.4 Supplements and Revisions to the Proposed Plan

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• NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

4.3 Proposed Plan

DOCUMENT NUMBER: LONG TITLE:	PEA (4.3) #1 001-220 "Proposed Plan for Landfill 3. Field Maintenance Squadron Equipment Cleaning Site, Fire Department Training Area 1"	
AUTHOR:	Roy F. Weston, Inc., Inc.	
RECIPIENT:	EPA, NHDES	
DATE:	October 1990	
TYPE:	Work Plan	
SECOND REFERENCE:	None	
LOCATION:	ARF	
	#	
DOCUMENT NUMBER:	PEA (4.3) #2 i-Figure 4	
LONG TITLE:	Proposed Plan for IRP Site 5. Landfill 5 Source Area – Draft Final	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	EPA. NHDES, Public	
DATE:	January 1993	
TYPE:	Proposed Plan	
SECOND REFERENCE:	Landfill 5	
LOCATION:	ARF. IR	
	#	
DOCUMENT NUMBER:	PEA (4.3) #3 001-Figure 5	
LONG TITLE:	Installation Restoration Program, Proposed Plans for IRP Sites 32/36 and 34. Pease Air Force Base, NH 03803-0157 -	
	- Draft Final	
AUTHOR:	USAF	
RECIPIENT:	USAF,	
	EPA, NHDES	
DATE:	March 1993	
TYPE:	Proposed Plan	
SECOND REFERENCE:	Site 34	
LOCATION:	ARF	
#		
DOCUMENT NUMBER:	PEA (4.3) #4 001-Figure 5	
LONG TITLE:	Installation Restoration Program, Proposed Plans for IRP Sites 32/36 and 34. Pease Air Force Base, NH 03803-0157 -	
	- Draft Final	
AUTHOR:	USAF	
RECIPIENT:	USAF.	
	EPA, NHDES	
DATE:	March 1993	
TYPE:	Proposed Plan	
SECOND REFERENCE:	Site 32/36	
LOCATION:	ARF	
	*	

LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	U.S. Air Force Installation Restoration Program Pease AFB Zone 5 Draft Feasibility Study Roy F. Weston, Inc. USAF July 1993 Feasibility Study Zone 5 ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.2) #30 001-5.103 U.S. Air Force Installation Restoration Program Pease AFB Zone 4 Feasibility Study Text DRAFT Roy F. Weston, Inc. USAF August 1993 Feasibility Study Zone 4 ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.2) #31 001-L.20 U.S. Air Force Installation Restoration Program Pease AFB Zone 4 Feasibility Study Appendices DRAFT Roy F. Weston, Inc. USAF August 1993 Appendices Zone 4 ARF

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RECIPIENT:	USAF
DATE:	January 1993
TYPE:	Appendices
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.2) #24 001-K.2
LONG TTTLE:	U.S. Air Force Installation Restoration Program Pease AFB McIntyre Brook/Lower Newfields Ditch Remedial Investigation/Feasibility Study DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Feasibility Study
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.2) #25 001-MM4B-7
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Initial Screening of Alternatives DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1993
TYPE:	Feasibility Study
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (4.2) #26 001-MM3-9
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Initial Screening of Alternatives Report DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1993
TYPE:	Feasibility Study
SECOND REFERENCE:	Zone 1
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.2) #27 001-BA1-4B-2
LONG TTILE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Initial Screening of Alternatives (Preliminary
	Draft Feasibility Study) DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	June 1993
TYPE:	Feasibility Study
SECOND REFERENCE:	Zone 2
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.2) #28 001-MM3B-3
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 4 Initial Screening of Alternatives Report DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Feasibility Study
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (4.2) #29 001-A.8

4.2 Feasibility Reports

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TYPE:	Report	
SECOND REFERENCE:	Site 32/36	
LOCATION:	ARF	
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	π	
DOCUMENT NUMBER:	PEA (4.2) #18 001-J.140	
LONG TITLE:	Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH, - Appendices -	
	Draft Final	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	USAF	
DATE:	December 1992	
TYPE:	Appendices	
SECOND REFERENCE:	Site 32/36	
LOCATION:	ARF	
	#	
DOCUMENT NUMBER:	PEA (4.2) #19 001-Acr.1	
LONG TITLE:	United States Air Force Installation Restoration Program, Pease AFB, Zone 5 Initial Screening of Alternatives Report	
	- Draft	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	USAF	
DATE:	March 1993	
TYPE:	Report	
SECOND REFERENCE:	Zone 5	
LOCATION:	ARF	
	*	
DOCUMENT NUMBER:	PEA (4.2) #20 001-E.4	
LONG TITLE:	Installation Restoration Program. Stage 4 No Further Action Decision Document for IRP Site 11, Pease AFB, NH	
	03803	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	USAF	
DATE:	February 1993	
TYPE:	Report	
SECOND REFERENCE:	Site 11	
LOCATION:	ARF	
	#	
DOCUMENT NUMBER:	PEA (4.2) #21 001-Acr.3	
LONG TITLE:	Installation Restoration Program, Stage 3C Feasibility Study for IRP Site 8, Pease AFB, NH 03803, Technical Report -	
	- Draft Final	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	USAF	
DATE:	January 1993	
TYPE:	Report	
SECOND REFERENCE:	Site 8	
LOCATION:	ARF	
	*	
DOCUMENT NUMBER:	PEA (4.2) #22 001-5.2-16	
LONG TITLE:	Installation Restoration Program. Stage 3C Feasibility Study for IRP Site 8, Pease AFB, NH 03803. Figures - Draft	
LONG THEE	Final	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	USAF	
DATE:	January 1993	
TYPE:	Figures	
SECOND REFERENCE:	Site 8	
LOCATION:	ARF	
	* · · · · · · · · · · · · · · · · · · ·	
DOCUMENT NUMBER:	PEA (4.2) #23 001-L.6	
LONG TITLE:	Installation Restoration Program, Stage 3C Feasibility Study for IRP Site 8, Pease AFB, NH 03803. Appendices A	
	through L - Draft Final	
AUTHOR:	Roy F. Weston, Inc.	

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4.2 Feasibility Reports

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LONG TITLE:	Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 8, Pease AFB, NH, Technical Report -
LONG MILL.	Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	October 1992
TYPE:	Report
SECOND REFERENCE	Site 8
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (4.2) #13 001-5.2.9
LONG TITLE:	Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB, NH, - Figures - Draft
	Final
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	November 1992
TYPE:	Report
SECOND REFERENCE:	Site 34
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (4.2) #14 001-J
LONG TITLE:	Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 34, Pease AFB, NH Appendices - Draft
	Final
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	November 1992
TYPE:	Report
SECOND REFERENCE:	Site 34
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (4.2) #15 001-ACR.3
DOCUMENT NUMBER: LONG TITLE:	
LONG TITLE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB, NH. – Technical Report - - Draft Final
LONG TITLE: AUTHOR:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB, NH, – Technical Report -
LONG TITLE: AUTHOR: RECIPIENT:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - - Draft Final Roy F. Weston, Inc. USAF
LONG TITLE: AUTHOR:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB, NH, – Technical Report - - Draft Final Roy F. Weston, Inc.
LONG TTTLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB, NH, - Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report
LONG TTTLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF #
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH, - Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH Figures - Draft
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB. NH. – Figures – Draft Final
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH, - Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB. NH Figures - Draft Final Roy F. Weston, Inc.
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH, - Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB. NH Figures - Draft Final Roy F. Weston, Inc. USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C. Feasibility Study for IRP Site 32/36, Pease AFB. NH. – Figures – Draft Final Roy F. Weston, Inc. USAF December 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB. NH. – Figures – Draft Final Roy F. Weston, Inc. USAF December 1992 Figures
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB. NH. – Figures – Draft Final Roy F. Weston, Inc. USAF December 1992 Figures Site 32/36
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB. NH. – Figures – Draft Final Roy F. Weston, Inc. USAF December 1992 Figures
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH. – Figures – Draft Final Roy F. Weston, Inc. USAF December 1992 Figures Site 32/36 ARF #
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH, - Technical Report - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH Figures - Draft Final Roy F. Weston, Inc. USAF December 1992 Figures Site 32/36 ARF # PEA (4.2) #17 001-ACR.3
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH, - Technical Report - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF # PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH, - Figures - Draft Final Roy F. Weston, Inc. USAF December 1992 Figures Site 32/36 ARF # PEA (4.2) #17 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH, - Technical Report
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH. – Figures – Draft Final Roy F. Weston, Inc. USAF December 1992 Figures Site 32/36 ARF # PEA (4.2) #17 001-ACR.3 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH. – Technical Report – Draft Final
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LOCATION: DOCUMENT NUMBER: LONG TITLE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 34, Pease AFB, NH, – Technical Report - Draft Final Roy F, Weston, Inc. USAF PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH, – Figures – Draft Final Roy F, Weston, Inc. USAF PEA (4.2) #17 001-ACR.3 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH, – Technical Report PEA (4.2) #17 001-ACR.3 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH, – Technical Report - Draft Final Roy F, Weston, Inc.
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	PEA (4.2) #15 001-ACR.3 Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 34, Pease AFB. NH. – Technical Report - Draft Final Roy F. Weston, Inc. USAF November 1992 Technical Report Site 34 ARF PEA (4.2) #16 001-5.2.7 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH. – Figures – Draft Final Roy F. Weston, Inc. USAF December 1992 Figures Site 32/36 ARF # PEA (4.2) #17 001-ACR.3 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 32/36, Pease AFB, NH. – Technical Report – Draft Final

DATE:	August 1992	
TYPE:	Report	
SECOND REFERENCE:	Site 5	
LOCATION:	ARF	
	*	
DOCUMENT NUMBER	PEA (4.2) #7 001-5.2.14	
LONG TITLE:	Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 5, Pease AFB, NH - Figures - Draft Final	
AUTHOR:	Roy F. Weston. Inc.	
RECIPIENT:	USAF	
DATE:	August 1992	
TYPE:	Figures	
SECOND REFERENCE:	Site 5	
LOCATION:	ARF	
	#	
DOCUMENT NUMBER:	PEA (4.2) #8 001-I.3	
LONG TITLE:	Installation Restoration Program. Stage 3C. Feasibility Study for IRP Site 5. Pease AFB, NH - Appendices A-I. Draft	
	Final	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	USAF	
DATE:	August 1992	
TYPE:	Appendices	
SECOND REFERENCE:	Site 5	
LOCATION:	ARF	
	*	
DOCUMENT NUMBER:	PEA (4.2) #9 001-B21	
LONG TTTLE:	Installation Restoration Program, Stage 3C, IRP Site 8, Soil Vapor Extraction Treatability Study Work Plan for Pease	
	AFB, NHDraft	
AUTHOR:	Roy F. Weston. Inc.	
RECIPIENT:	USAF	
DATE:	September 1992	
TYPE:	Treatability Study Work Plan	
SECOND REFERENCE:	Site 8	
LOCATION:	ARF #	
	7	
DOCUMENT NUMBER:	PEA (4.2) #10 001-L.4	
LONG TTTLE:	Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 8, Pease AFB, NH - Appendices A-L -	
	Draft	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	USAF	
DATE:	October 1992	
TYPE:	Appendices	
SECOND REFERENCE:	Site 8	
LOCATION:	ARF #	
*		
DOCUMENT NUMBER:	PEA (4.2) #11 001-5.2.16	
LONG TITLE:	Installation Restoration Program. Stage 3C, Feasibility Study for IRP Site 8, Pease AFB, NH, Figures - Draft	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	USAF	
DATE:	October 1992	
TYPE: SECOND REFERENCE.	Figures	
SECOND REFERENCE: LOCATION:	Site 8 ARF	
LUCATION	4Kr #	
	7	
DOCUMENT NUMBER:	PEA (4.2) #12 001-5.126	

4.2 Feasibility Reports

DOCUMENT NUMBER:	PEA (4.2) #1 001-B.39
LONG TITLE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 5, Pease AFB, NH
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	October 1991
TYPE:	Report
SECOND REFERENCE:	Site 5
LOCATION:	ARF
LOCATION	
	*
DOCUMENT NUMBER:	PEA (4.2) #2 001-D.30
LONG TITLE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 34. Pease AFB. NH Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	January 1992
	•
TYPE:	Report
SECOND REFERENCE:	Site 34
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (4.2) #3 001-C.38
LONG TITLE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 32/36, Pease AFB, NH Draft
AUTHOR:	Rov F. Weston, Inc.
RECIPIENT:	USAF
DATE:	January 1992
TYPE:	Report
SECOND REFERENCE:	Site 32/36
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.2) #4 001-D.45
DOCUMENT NUMBER: LONG TITLE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical
LONG TITLE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft
LONG TITLE: AUTHOR:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc.
LONG TITLE: AUTHOR: RECIPIENT:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF
LONG TITLE: AUTHOR:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc.
LONG TITLE: AUTHOR: RECIPIENT:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 3 ARF #
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures -
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures -
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft Roy F. Weston, Inc.
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LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft Roy F. Weston, Inc. USAF June 1992 Figures
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft Roy F. Weston, Inc. USAF June 1992 Figures Site 8
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft Roy F. Weston, Inc. USAF June 1992 Figures Site 8 ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft Roy F. Weston, Inc. USAF June 1992 Figures Site 8
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft Roy F. Weston, Inc. USAF June 1992 Figures Site 8 ARF #
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 3 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft Roy F. Weston, Inc. USAF June 1992 Figures Site 8 ARF # PEA (4.2) #6 001-ACR.3
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 3 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft Roy F. Weston, Inc. USAF June 1992 Figures Site 8 ARF # PEA (4.2) #6 001-ACR-3 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 5, Pease AFB, NH - Technical Report -
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft Roy F. Weston, Inc. USAF June 1992 Figures Site 8 ARF # PEA (4.2) #6 001-ACR3 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 5, Pease AFB, NH - Technical Report - Draft Final
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C.5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft Roy F. Weston, Inc. USAF June 1992 Figures Site 8 ARF # PEA (4.2) #6 001-ACR.3 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 5, Pease AFB, NH - Technical Report – Draft Final Roy F. Weston, Inc.
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Technical Report and Appendices - Draft Roy F. Weston, Inc. USAF June 1992 Report Site 8 ARF # PEA (4.2) #5 001-C5 Installation Restoration Program, Stage 3C, Initial Screening of Alternatives for IRP Site 8, Pease AFB, NH Figures - Draft Roy F. Weston, Inc. USAF June 1992 Figures Site 8 ARF # PEA (4.2) #6 001-ACR3 Installation Restoration Program, Stage 3C, Feasibility Study for IRP Site 5, Pease AFB, NH - Technical Report - Draft Final

4.1 ARAR Determinations

1

DOCUMENT NUMBER:	PEA (4.1) #1 001-024
LONG TTILE:	New Hampshire ARAR List Update
AUTHOR:	Richard H. Pease, P.E.
	NHDES
RECIPIENT:	Arthur Ditto, P.E.
	RPM. U.S. Air Force/Pease AFB
DATE:	13 April 1992
TYPE:	Letter and Tables
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (4.1) #2 001-B.3
LONG TITLE:	Installation Restoration Program Stage 4, Basewide ARARs, Pease Air Force Base, NH 03803 - Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	January 1993
TYPE:	ARARs
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	*

LONG TITLE:	Submittal of Draft Primary Document, Zone 1 Remedial Investigation Report
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, EPA
DATE:	28 April 1993
TYPE:	Letter
SECOND REFERENCE:	Zone 1, PEA (3.5)
LOCATION:	ARF
	#

DOCUMENT NUMBER:	PEA (3.6) #166 001-001
LONG TTTLE:	Submittal of Draft Primary Document, Zone 2 Remedial Investigation Report
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, EPA
DATE:	21 May 1993
TYPE:	Letter
SECOND REFERENCE:	Zone 2, PEA (3.5)
LOCATION:	ARF

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LONG TTTLE: Submittal of Draft Primary Document, Zone 5 Remedial Investigation Report AUTHOR: USAF Johanna Hunter. EPA RECIPIENT: DATE: Undated TYPE: Letter SECOND REFERENCE: PEA (3.5); Zone 5 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #160 001-001 LONG TTTLE: Submittal of Draft Primary Document, Landfill 5 Record of Decision AUTHOR: USAF **RECIPIENT:** Richard Pease, NHDES DATE: 21 April 1993 TYPE: Letter SECOND REFERENCE: LF-5 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #161 001-001 LONG TTTLE: Submittal of Draft Documents AUTHOR: USAF **RECIPIENT:** Richard Pease, NHDES DATE: 21 April 1993 TYPE: Letter SECOND REFERENCE: Zone 3, Zone 4, LF-5 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #162 001-001 LONG TTILE: Submittal of Draft Documents AUTHOR: USAF RECIPIENT: Richard Pease, NHDES DATE: 21 April 1993 TYPE: Letter SECOND REFERENCE: Zone 3, Zone 4, LF-5 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #163 001-001 Submittal of Draft Primary Document, Landfill 5 Record of Decision LONG TITLE: AUTHOR: USAF **RECIPIENT:** Johanna Hunter, EPA DATE: 21 April 1993 TYPE: Letter SECOND REFERENCE: LF-5 LOCATION: ARF # DOCUMENT NUMBER: PEA (3.6) #164 001-001 LONG TITLE: Submittal of Draft Primary Document, Zone 1 Remedial Investigation Report AUTHOR: USAF Richard Pease, NHDES **RECIPIENT:** DATE: 28 April 1993 TYPE: Letter SECOND REFERENCE: Zone 1, PEA (3.5) LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #165 001-001

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SECOND REFERENCE: PEA (4.5) LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #153 001-001 LONG TITLE: Submittal of Draft Primary Document, Zone 4 Remedial Investigation Report USAF AUTHOR: Richard Pease, NHDES **RECIPIENT:** DATE: 9 March 1993 TYPE: Letter SECOND REFERENCE: PEA (3.5); Zone 4 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #154 001-001 LONG TITLE: Submittal of Draft Primary Document, Zone 4 Remedial Investigation Report AUTHOR: USAF **RECIPIENT:** Johanna Hunter, EPA DATE: 9 March 1993 TYPE: Letter SECOND REFERENCE: PEA (3.5); Zone 4 LOCATION: ARF # DOCUMENT NUMBER: PEA (3.6) #154 001-006 LONG TITLE: IRP Site 34 Contaminant Levels AUTHOR: NHDES **RECIPIENT:** Art Ditto, AFBDA DATE: 3 March 1993 TYPE: Letter SECOND REFERENCE: PEA (3.5); Site 34 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #156 001-002 LONG TITLE: Request for Deadline Extension AUTHOR: USAF **RECIPIENT:** Johanna Hunter, EPA Richard Pease, NHDES DATE: 19 March 1993 TYPE: Letter SECOND REFERENCE: PEA (3.5) LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #157 001-001 LONG TITLE: Submittal of Responses to Comments of the Zone 4 Site Characterization Summary USAF AUTHOR: RECIPIENT: Johanna Hunter, EPA Richard Pease, NHDES 18 March 1993 DATE: TYPE: Letter SECOND REFERENCE: Zone 4 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #158 001-001 Submittal of Draft Primary Document, Zone 5 Remedial Investigation Report LONG TTFLE: AUTHOR: USAF RECIPIENT: Richard Pease, NHDES 9 March 1993 DATE: TYPE: Letter SECOND REFERENCE: PEA (3.5); Zone 5 LOCATION: ARF DOCUMENT NUMBER PEA (3.6) #159 001-001

Analysis Plan (SAP) Number 3 AUTHOR: Arthur Ditto, RPM USAF. Pease AFB **RECIPIENT:** Johanna Hunter, RPM U.S. EPA, Region 1 and Richard Pease, RPM NHDES DATE: 11 December 1992 TYPE: Letter SECOND REFERENCE: PEA (3.1) LOCATION: ARF # DOCUMENT NUMBER: PEA (3.6) #149 001-002 LONG TITLE: Request for Deadline Extension Arthur Ditto, RPM AUTHOR: USAF, Pease AFB RECIPIENT: Johanna Hunter, RPM U.S. EPA, Region 1 and Richard Pease, RPM NHDES DATE: 23 December 1992 TYPE: Letter SECOND REFERENCE: PEA (6.3) LOCATION: ARF # DOCUMENT NUMBER: PEA (3.6) #150 001-001 LONG TITLE: Transmittal of EPA Maximum Risk Calculation Addenda to Site 5, 8, 32/36 and 34 Draft Final RI Reports AUTHOR: Arthur Ditto, RPM USAF, Pease AFB Johanna Hunter, RPM RECIPIENT: U.S. EPA, Region 1 and Richard Pease, RPM NHDES DATE: 29 December 1992 TYPE: Letter SECOND REFERENCE: Sites 5. 8, 32/36 and 34: PEA (3.5) LOCATION: ARF # DOCUMENT NUMBER: PEA (3.6) #151 001-002 LONG TITLE: Selection of Remediation Action Alternative for Site 8, FDTA #2 AUTHOR: USAF **RECIPIENT:** Johanna Hunter, USEPA Richard Pease, NHDES DATE: 08 January 1993 TYPE: Letter SECOND REFERENCE: Site 8; PEA (4.6) LOCATION: ARF # DOCUMENT NUMBER: PEA (3.6) #152 001-002 LONG TITLE: MULTIMED as a Replacement for the Summers Model AUTHOR: Rov F. Weston, Inc. RECIPIENT: Art Ditto, AFBDA 11 March 1993 DATE: TYPE: Letter

3.6 Correspondence - RI

RECIPIENT:	USAF, Pease AFB
RECIFICAT	Richard Pease, RPM NHDES
DATE	
DATE: TYPE:	17 November 1992
	Letter Site 8
SECOND REFERENCE: LOCATION:	ARF
EOCATION.	
	#
DOCUMENT NUMBER:	PEA (3.6) #144 001-001
LONG TITLE:	Transmittal Letter for Submittal of Draft Final Primary Document. Site 8 RI Report
AUTHOR:	Arthur Ditto, RPM
	USAF, Pease AFB
RECIPIENT:	Johanna Hunter, RPM
	U.S. EPA, Region 1
DATE:	17 November 1992
TYPE:	Letter
SECOND REFERENCE:	Site 9
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #145 001-004
LONG TITLE:	No Further Action Decision for Site 3
AUTHOR:	Arthur Ditto, RPM
	USAF, Pease AFB
RECIPIENT:	Johanna Hunter, RPM
	U.S. EPA, Region 1
DATE:	1 December 1992
TYPE:	Letter
SECOND REFERENCE:	Site 3
LOCATION:	ARF
	*
DOCUMENT NUMBER	
LONG TITLE:	PEA (3.6) #146 001-001
AUTHOR:	Application of the Reasonable Maximum Exposure (RME) in Risk Assessments Arthur Ditto, RPM
AUTHOR	USAF, Pease AFB
RECIPIENT:	Richard Pease, RPM
Rechtleivi.	NHDES
DATE:	1 December 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	* #
DOCUMENT NUMBER:	PEA (3.6) #147 001-001
LONG TITLE:	Explanation of Off-Base Well Inventory Report
AUTHOR:	Arthur Ditto, RPM
	USAF. Pease AFB
RECIPIENT:	Richard Pease, RPM
	NHDES
DATE:	4 December 1992
TYPE:	Letter
SECOND REFERENCE:	Off-Base Well Inventory Letter Report of 17 September 1992
	PEA (3.5)
LOCATION:	ARF
	#
DOCT MENT NT NOED	DEA (2.6) #148.001.001
DOCUMENT NUMBER:	PEA (3.6) #148 001-001 Transmittal Letter for Submittal of Quality Accumant Project Plan (QAPR) Partice of the Store A Sampling and
LONG TITLE:	Transmittal Letter for Submittal of Quality Assurance Project Plan (QAPP) Portion of the Stage 4 Sampling and

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #138 001-001 Submittal of Draft Secondary Documents, Zones 1, 2, and 5 Site Characterization Summaries USAF Johanna Hunter, USEPA 26 October 1992 Letter None ARF #
	*
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #139 001-001 Submittal of Stage 4 Sampling and Analysis Plan Addendum 3 USAF Johanna Hunter, USEPA 26 October 1992 Letter None ARF
	#
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.6) #140 001-001 Submittal of Stage 4 Sampling and Analysis Plan Addendum 3 USAF Richard Pease, NHDES 26 October 1992 Letter None
LOCATION:	ARF
	#
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #141 001-002 Pease Air Force Base Draft Final IRP Site 8 RI Report Lee dePersia, Roy F. Weston, Inc. USAF Johanna Hunter, USEPA Richard Pease, NHDES 13 November 1992 Letter Site 8 ARF
	*
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	PEA (3.6) #142 001-001 Transmittal Letter for Submittal of Stage 5 Health and Safety Plan Arthur Ditto, RPM USAF/Pease AFB Johanna Hunter, RPM U.S. EPA, Region 1 and Richard Pease, RPM NUDES
DATE: TYPE: SECOND REFERENCE: LOCATION:	NHDES 17 November 1992 Letter None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.6) #143 001-001 Transmittal Letter for Submittal of Draft Final Primary Document, Site 8 RI Report Arthur Ditto, RPM

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RECIPIENT:	Capt. Carl Woerhie U.S. Air Force Base Closure Division
	Air Force Center for Environmental Excellence
DATE:	22 October 1992
TYPE: SECOND REFERENCE:	Letter Zone 2
LOCATION:	ARF
LOCATION.	-AN: #
	π
DOCUMENT NUMBER	PEA (3.6) #134 001-001
LONG TITLE:	Transmittal Letter for Submittal of Zone 2 Site Characterization Summary Report
AUTHOR:	Lee dePersia
	Task Manager
	Roy F. Weston, Inc.
RECIPIENT:	Richard Pease, RPM
	NHDES
DATE:	22 October 1992
TYPE:	Letter
SECOND REFERENCE:	Zone 2
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.6) #135 001-001
LONG TITLE:	Transmittal Letter for Submittal of Zone 2 Site Characterization Summary Report
AUTHOR:	Lee dePersia
	Task Manager
	Roy F. Weston, Inc.
RECIPIENT:	Johanna Hall
	TRC Member
	Boott Mills South of Foot Street
	Lowell, MA
DATE:	22 October 1992
TYPE:	Letter
SECOND REFERENCE:	Zone 2
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #136 001-001
LONG TITLE:	Transmittal Letter for Submittal of Zone 2 Site Characterization Summary Report
AUTHOR:	Lee dePersia
	Task Manager
	Roy F. Weston, Inc.
RECIPIENT:	Johanna Hunter, RPM
	U.S. EPA, Region 1
DATE:	22 October 1992
TYPE:	Letter
SECOND REFERENCE:	Zone 2
LOCATION:	ARF #
	*
DOCUMENT NUMBER:	PEA (3.6) #137 001-001
LONG TTILE:	Submittal of Draft Secondary Documents, Zones 1, 2, and 5 Site Characterization Summaries
AUTHOR:	USAF
RECIPIENT	Richard Pease, NHDES
DATE:	26 October 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
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DATE:	USAF/Pease AFB 16 September 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.6) #129 001-001
LONG TITLE:	Extension of Draft Final Report Submittal Date, Site 8 Remedial Investigation Report
AUTHOR	USAF
RECIPIENT:	Johanna Hunter, USEPA Bishard Busen NJUDES
DATE:	Richard Pease, NHDES 6 October 1992
TYPE:	Letter
SECOND REFERENCE:	Site 8
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (3.6) #130 001-002
LONG TITLE:	Field Oversight - Mid-August-Mid-September
AUTHOR:	Richard Pease, NHDES
RECIPIENT:	Arthur Ditto, RPM Pease AFB
DATE:	7 October 1991
TYPE:	Letter
SECOND REFERENCE:	PEA (3.4)
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #131 001-001
LONG TITLE:	Pease AFB Zone 1 Site Characterization Summary
AUTHOR:	Lee dePersia
	Task Manager
	Roy F. Weston, Inc.
RECIPIENT:	Capt. Carl Woethle
	U.S. Air Force
	Base Closure Division
	Air Force Center for Environmental Excellence
DATE: TYPE:	21 October 1992
SECOND REFERENCE:	Transmittal Letter Zone 1
LOCATION:	ARF
pournos.	#
DOCUMENT NUMBER:	PEA (3.6) #132 001-001
LONG TITLE:	Pease AFB Zone 5 Site Characterization Summary
ALTHOR:	Lee dePersia, Roy F. Weston, Inc.
RECIPIENT:	USAF
	Johanna Hunter, USEPA Richard Pease, NHDES
DATE:	22 October 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER	PEA (3.6) #133 001-001
LONG TITLE:	Transmittal Letter for Pease AFB Zone 2 Site Characterization Study
AUTHOR:	Lee dePersia
	Task Manager Roy E. Wasten, Inc.
	Roy F. Weston, Inc.

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DOCUMENT NUMBER:	PEA (3.6) #124 001-001
LONG TTTLE:	Transmittal Letter for Submittal of Groundwater Background Letter Report
AUTHOR:	Mark McKenzie for Arthur Ditto
	USAF/Pease AFB
RECIPIENT	Richard Pease, RPM
	NHDES
	and
	Johanna Hunter
	U.S. EPA, Region 1
DATE:	1 September 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.6) #125 001-002
LONG TITLE:	Policy on Data Transfer During Pumping Tests
AUTHOR:	Arthur Ditto, RPM
	USAF/Pease AFB
RECIPIENT:	Richard Pease, RPM
	NHDES
	and
	Johanna Hunter, RPM
5	U.S. EPA, Region 1
DATE:	9 September 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER.	PEA (2.6) #126.001.001
DOCUMENT NUMBER:	PEA (3.6) #126 001-001
LONG TITLE:	Transmittal Letter for Submittal of Draft Primary Document, Site 3 No Further Action Decision Document (NFADD)
AUTHOR:	Arthur Ditto, RPM
	USAF/Pease AFB
RECIPIENT:	Johanna Hunter, RPM
	U.S. EPA/Region 1
DATE:	9 September 1992
TYPE:	Letter
SECOND REFERENCE:	Site 3
LOCATION:	ARF
LOCATION.	AN #
	π.
DOCUMENT NUMBER:	PEA (3.6) #127 001-001
LONG TITLE:	Transmittal Letter for Submittal of Draft Primary Document. Site 3 No Further Action Decision Document (NFADD)
AUTHOR:	Arthur Ditto, RPM
Acmor	USAF/Pease AFB
DECTRIENT.	·
RECIPIENT:	Richard Pease, RPM
	NHDES
DATE:	9 September 1992
TYPE:	Letter
SECOND REFERENCE:	Site 3
LOCATION:	ARF
	#
	BEA (2 () #130.001.000
DOCUMENT NUMBER:	PEA (3.6) #128 001-003
LONG TITLE:	Summary of Risk Issues Meeting of August 19, 1992
AUTHOR:	Johanna Hunter, RPM
	U.S. EP.A. Region 1
RECIPIENT:	C.S. EPA, Region 1 Arthur Ditto, RPM

DOCUMENT NUMBER: LONG TITLE:	PEA (3.6) #119 001-001 Transmittal Letter for Summary of Groundwater Treatment Plant Influent/Effluent Results
AUTHOR:	Arthur Ditto, RPM USAF/Pease AFB
RECIPIENT:	Johanna Hunter, RPM
NECH LE.VI.	USEPA, Region 1
	and Richard Pease, RPM
	NHDES
DATE:	11 August 1992
TYPE:	Letter
SECOND REFERENCE:	PEA (2.7)
LOCATION:	ARF #
	77
DOCUMENT NUMBER:	PEA (3.6) #120 001-001
LONG TITLE:	Monitor Well Inventory and Inspection Report
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, USEPA
	Richard Pease, NHDES
DATE: TYPE:	18 August 1992 Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER	PEA (3.6) #121 001-002
LONG TITLE:	Base Support Requirements for Haven Well Pumping Test
AUTHOR:	USAF
RECIPIENT:	James Winder Pet Useral
	Pat Hamel E.L. Hamm
DATE:	21 August 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.6) #122 001-002
LONG TITLE:	Results of Background Surface Water Sediment Location Walkover
AUTHOR:	Richard Pease, RPM, NHDES
RECIPIENT:	Arthur Ditto, RPM, Pease AFB
DATE:	27 August 1992
TYPE:	Letter
SECOND REFERENCE:	PEA (6.4)
LOCATION:	ARF
	#
DOCUMENT NUMBER	PEA (3.6) #123 001-005
LONG TITLE:	Risk Assessment Issues for Pease AFB
AUTHOR:	Lee dePersia
	Task Manager
	Roy F. Weston, Inc.
RECIPIENT:	Arthur Ditto, RPM
	USAF/Pease AFB
DATE:	28 August 1992
TYPE:	Letter Report
SECOND REFERENCE: LOCATION:	PEA (3.5) ARF
504110.N	#
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TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #114 001-001 LONG TITLE: Submittal Letter for Draft Site Characterization Summary for IRP Site 32/36 AUTHOR: Arthur Ditto, RPM USAF/Pease AFB RECIPIENT: Johanna Hunter, RPM USEPA, Region 1 DATE: 18 July 1992 TYPE: Transmittal Letter SECOND REFERENCE: Site 32/36 ARF LOCATION: DOCUMENT NUMBER: PEA (3.6) #115 001-003 LONG TITLE: Pease Air Force FDTA-2 Draft RI Report Lee dePersia, Roy F. Weston, Inc. AUTHOR: RECIPIENT: USAF Johanna Hunter, USEPA Richard Pease, NHDES DATE: 29 July 1992 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #116 001-021 LONG TITLE: Pease Air Force Base Groundwater Modeling Letter Report AUTHOR: Lee dePersia, Roy F. Weston, Inc. RECIPIENT: USAF Johanna Hunter, USEPA Richard Pease, NHDES DATE: 29 July 1992 TYPE: Letter with Report SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #117 001-001 Submittal of Draft Primary Document, Site 8 Remedial Investigation Report LONG TITLE: USAF AUTHOR: Johanna Hunter, USEPA RECIPIENT: DATE: 30 July 1992 TYPE: Letter SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #118 001-001 LONG TITLE: Submittal of Draft Primary Document, Site 8 Remedial Investigation Report AUTHOR: USAF RECIPIENT: Richard Pease, NHDES DATE: 30 July 1992 TYPE: Letter SECOND REFERENCE: Site 8 ARF LOCATION:

DOCUMENT NUMBER	PEA (3.6) #108 001-002
LONG TITLE:	Pease Air Force Base Site IRP 32/36 Source Area Draft Final RI Report and Response to Comments for the IRP
	Site 32/36 Draft RI Report
AUTHOR:	Lee dePersia, Roy F. Weston, Inc.
RECIPIENT:	USAF
	Johanna Hunter, USEPA
	Richard Pease, NHDES
D 4 77	
DATE:	05 June 1992
TYPE:	Letter
SECOND REFERENCE:	Site 32/36
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #109 001-001
LONG TITLE:	Submittal of Draft Primary Document, Site 32/36 Remedial Investigation Report
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, USEPA
DATE:	16 June 1992
TYPE:	Letter
SECOND REFERENCE:	Site 32/36
LOCATION:	ARF
Locamon	#
	7
DOCUMENT NUMBER:	DEA (2.4) 4110 001 001
	PEA (3.6) #110 001-001
LONG TITLE:	Submittal of Draft Final Primary Document. Site 32/36 Remedial Investigation Report
AUTHOR:	USAF
RECIPIENT:	Richard Pease, NHDES
DATE:	16 June 1992
TYPE:	Letter
SECOND REFERENCE:	Site 32/36
LOCATION:	ARF
	#
	*
DOCUMENT NUMBER:	# PEA (3.6) #111 001-001
DOCUMENT NUMBER: LONG TITLE:	PEA (3.6) #111 001-001
LONG TITLE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan
LONG TITLE: AUTHOR:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF
LONG TITLE: AUTHOR: RECIPIENT:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES
LONG TITLE: AUTHOR: RECIPIENT: DATE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES 24 June 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES 24 June 1992 Letter
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES 24 June 1992 Letter None
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 24 June 1992 Letter None ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES 24 June 1992 Letter None
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 24 June 1992 Letter None ARF #
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 24 June 1992 Letter None ARF # PEA (3.6) #112 001-001
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 24 June 1992 Letter None ARF # PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 24 June 1992 Letter None ARF # PEA (3.6) #112 001-001
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 24 June 1992 Letter None ARF # PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 24 June 1992 Letter None ARF PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES 24 June 1992 Letter None ARF PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES 24 June 1992 Letter None ARF PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Johanna Hunter, USEPA
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES 24 June 1992 Letter None ARF # PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Johanna Hunter, USEPA 24 June 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES 24 June 1992 Letter None ARF PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Johanna Hunter, USEPA 24 June 1992 Letter
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 24 June 1992 Letter None ARF PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Johanna Hunter, USEPA 24 June 1992 Letter None ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES 24 June 1992 Letter None ARF # PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Johanna Hunter, USEPA 24 June 1992 Letter None
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES 24 June 1992 Letter None ARF PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Johanna Hunter, USEPA 24 June 1992 Letter None ARF #
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 4 June 1992 Letter None ARF # PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Johanna Hunter, USEPA 24 June 1992 Letter None ARF #
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 24 June 1992 Letter None ARF # PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Johanna Hunter. USEPA 24 June 1992 Letter None ARF # PEA (3.6) #113 001-002 Additional Field Oversight
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 24 June 1992 Letter None ARF # PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Johanna Hunter. USEPA 24 June 1992 Letter None ARF # PEA (3.6) #113 001-002 Additional Field Oversight USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease, NHDES 24 June 1992 Letter None ARF PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents, Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Johanna Hunter, USEPA 24 June 1992 Letter None ARF PEA (3.6) #113 001-002 Additional Field Oversight USAF Michael Daly, USEPA
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.6) #111 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Richard Pease. NHDES 24 June 1992 Letter None ARF # PEA (3.6) #112 001-001 Submittal of Draft Secondary Documents. Stage 4 Work Plan Addendum 3 and Stage 4 Health and Safety Plan Addendum USAF Johanna Hunter. USEPA 24 June 1992 Letter None ARF # PEA (3.6) #113 001-002 Additional Field Oversight USAF

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DATE: 26 May 1992 TYPE: Letter SECOND REFERENCE: None ARF LOCATION: DOCUMENT NUMBER: PEA (3.6) #103 001-022 LONG TITLE: Evaluation of Air Pathway in Baseline Risk Assessments AUTHOR: Richard Pease, NHDES RECIPIENT: Art Ditto, Pease AFB DATE: 13 April 1992 Letter with Attachments TYPE: SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #104 001-004 LONG TITLE: Pease Air Force Base Site 34 Source Area Draft Final RI Report Edward S. Barnes, Roy F. Weston, Inc. AUTHOR: USAF **RECIPIENT:** Johanna Hunter, USEPA Richard Pease, NHDES 07 May 1992 DATE: TYPE: Letter SECOND REFERENCE: Site 34 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #105 001-003 LONG TITLE: Pease Air Force Base Zone 4 Draft Site Characterization Summary AUTHOR: Edward S. Barnes, Roy F. Weston, Inc. RECIPIENT: USAF Johanna Hunter, USEPA Richard Pease, NHDES 08 May 1992 DATE: Letter TYPE: SECOND REFERENCE: None ARF LOCATION: DOCUMENT NUMBER: PEA (3.6) #106 001-002 LONG TITLE: Oversight Role of Regulatory Agencies at Pease AFB AUTHOR: Michael Daly, USEPA RECIPIENT: Mark McKenzie, Pease AFB 26 May 1992 DATE: TYPE: Letter SECOND REFERENCE: None ARF LOCATION: £ PEA (3.6) #107 001-003 DOCUMENT NUMBER: LONG TTILE: Submittal of Draft Secondary Document, Zone 3 Site Characterization Summary AUTHOR: USAF RECIPIENT: Johanna Hunter, USEPA **Richard Pease**, NHDES DATE: 26 May 1992 TYPE: Letter SECOND REFERENCE: None ARF LOCATION:

LONG TTILE:	Submittal of Draft Primary Document, Site 32/36 RI Report
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, USEPA
DATE:	25 February 1992
TYPE:	Letter
SECOND REFERENCE:	Site 32/36
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #98 001-003
LONG TITLE:	Request for EPA Split Sampling Results
AUTHOR:	Arthur Ditto, RPM
AUTHOR	
	USAF/Pease AFB
RECIPIENT:	Johanna Hunter, RPM
	U.S. EPA, Region 1
DATE:	9 March 1992
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
Dourinora	#
	*
DOCUMENT NUMBER:	PEA (3.6) #99 001-D1
LONG TITLE:	Letter Report of Results of Statistical Comparison of Stage 3C Samples to the 66 Other Background Samples
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	9 March 1992
TYPE:	Letter Report
SECOND REFERENCE:	PEA (3.5)
LOCATION:	ARF
LOCATION:	
	#
DOCUMENT NUMBER:	PEA (3.6) #100 001-001
LONG TITLE:	Transmittal Letter for Submittal of Stage 4 Work Plan Addendum Number 2 on the Draft Stage 4 Sampling and
	Analysis Plan Addendum Number 2
AUTHOR:	Arthur Ditto, RPM
	USAF/Pease AFB
RECIPIENT:	Johanna Hunter
NECH MAT.	
D 4777	U.S. EPA, Region 1
DATE:	24 March 1992
TYPE:	Transmittal Letter
SECOND REFERENCE:	PEA (3.1), PEA (3.3)
LOCATION:	ARF
DOCUMENT NUMBER:	PEA (3.6) #101 001-001
LONG TITLE:	Transmittal Letter for Submittal of Stage 4 Addendum Number 2 Work Plan and Sampling and Analysis Plan
AUTHOR:	Arthur Ditto, RPM
	USAF/Pease AFB
RECIPIENT:	Richard Pease, RPM
	NHDES
DATE:	24 March 1992
TYPE:	Transmittal Letter
SECOND REFERENCE:	PEA (3.1), PEA (3.3)
LOCATION:	ARF
~~~~	AN <b>#</b>
	<del>,</del>
500305x73000-	
DOCUMENT NUMBER:	PEA (3.6) #102 001-001
LONG TITLE:	Data You May Be Able to Provide
AUTHOR:	Thomas R. Marks, Roy F. Weston, Inc.
RECIPIENT:	Mark McKenzie, Pease AFB

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3.6 Correspondence - RI

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TYPE: Letter SECOND REFERENCE: Site 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #92 001-001 IRP Site 32/36 Source Area Remedial Investigation Report LONG TTILE: AUTHOR: Edward S. Barnes, Roy F. Weston, Inc. RECIPIENT: Richard Pease, NHDES DATE: 14 February 1992 Letter TYPE: SECOND REFERENCE: Site 32/36 LOCATION: ARF PEA (3.6) #93 001-001 DOCUMENT NUMBER: LONG TTILE: IRP Site 32/36 Source Area Remedial Investigation Report AUTHOR: Edward S. Barnes, Roy F. Weston, Inc. Johanna Hunter, USEPA RECIPIENT: DATE: 14 February 1992 TYPE: Letter SECOND REFERENCE: Site 32/36 ARF LOCATION: DOCUMENT NUMBER: PEA (3.6) #94 001-001 LONG TITLE: Submittal of Draft Primary Document, Site 32/36 RI Report AUTHOR: USAF **RECIPIENT: Richard Pease**, NHDES DATE: 25 February 1992 TYPE: Letter SECOND REFERENCE: Site 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #95 001-001 Transmittal Letter for Submittal of Baseline Risk Assessment Protocols LONG TTILE: AUTHOR: Arthur Ditto, RPM USAF/Pease AFB RECIPIENT: **Richard Pease**, RPM NHDES 25 February 1992 DATE: TYPE: Transmittal Letter SECOND REFERENCE: Baseline Risk Assessment LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #96 001-001 LONG TITLE: Transmittal Letter for Revised Baseline Risk Assessment Protocols AUTHOR: Arthur Ditto, RPM USAF/Pease AFB **RECIPIENT:** Johanna Hunter, RPM USEPA, Region 1 DATE: 25 February 1992 TYPE: Transmittal Letter SECOND REFERENCE: **Revised Baseline Risk Assessment** ARF LOCATION: PEA (3.6) #97 001-001 DOCUMENT NUMBER:

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U.S. EPA, Region 1 RECIPIENT: Ed Barnes Project Manager Roy F. Weston, Inc. DATE: 2 December 1991 TYPE: Transmittal Letter SECOND REFERENCE: None LOCATION: ARF # DOCUMENT NUMBER: PEA (3.6) #87 001-002 LONG TITLE: Regional Literature Search to Assist Development of the Sediment and Surface Water Background Determination for Pease AFB. Portsmouth, NH AUTHOR: Johanna Hunter, USEPA **RECIPIENT:** Art Ditto, Pease AFB DATE: 2 December 1991 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #88 001-001 LONG TITLE: Fugitive Dust Pathway in the Baseline Risk Assessment AUTHOR: Arthur Ditto, RPM, USAF Pease AFB RECIPIENT: Johanna Hunter RPM U.S. EPA Region 1 DATE: 3 January 1992 TYPE: Letter SECOND REFERENCE: Baseline Risk Assessment (3.5) - RI Reports LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #89 001-001 Evaluation of the Air Pathway in Baseline Risk Assessment LONG TTILE: AUTHOR: USAF **RECIPIENT:** Johanna Hunter, USEPA DATE: 11 February 1992 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #90 001-001 Evaluation of the Air Pathway in Baseline Risk Assessment LONG TTILE: USAF AUTHOR: **RECIPIENT: Richard Pease**. NHDES 11 February 1992 DATE: TYPE: Letter SECOND REFERENCE: None ARF LOCATION: DOCUMENT NUMBER: PEA (3.6) #91 001-002 IRP Site 32/36 Source Area Remedial Investigation Report LONG TTTLE: Edward S. Barnes, Roy F. Weston, Inc. AUTHOR: **RECIPIENT:** USAF Johanna Hunter, USEPA Richard Pease, NHDES DATE: 14 February 1992

3.6 Correspondence - RI

	NHDES
RECIPIENT:	Mark McKenzie
	USAF/Pease AFB
DATE:	•
	31 July 1991
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #82 001-006
LONG TITLE:	Review of the Proposed Procedure for Background Determination Protocols for Pease Air Force Base, Portsmouth,
Long mile	NH
AUTHOR:	Johanna Hunter, USEPA
RECIPIENT	Art Ditto, Pease AFB
DATE:	02 August 1991
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.6) #83 001-001
LONG TITLE:	Vented Monitoring Wells - Response to July 31, 1991 Letter on same Issue Form NHDES
AUTHOR:	Arthur Ditto, RPM
AUTHOR	
	USAF/Pease AFB
RECIPIENT:	Scott Doane
	NHDES
DATE:	26 August 1991
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #84 001-001
LONG TITLE:	Split Sampling Results
AUTHOR:	Arthur Ditto, RPM
	U. S. Air Force/Pease AFB
RECIPIENT:	Johanna Hunter, RPM
	U.S. EPA, Region 1
	and
	Richard Pease, RPM
	NHDES
DATE:	9 September 1991
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
2041110	• - <b>~</b>
DOCUMENT NUMBER:	PEA (3.6) #85 001-002
LONG TITLE:	Field Oversight - September 1991
AUTHOR:	Richard Pease, NHDES
RECIPIENT:	Arthur Ditto, USAF RPM
DATE:	28 October 1991
TYPE:	Letter
SECOND REFERENCE:	RI Field Work (3.4)
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.6) #86 001-001
LONG TITLE:	Transmittal Letter for Data Collected on Surface Water and Sediment Background Concentration
AUTHOR:	Johanna Hunter, RPM
	JANNING TANKAAN SAF 11F

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Brooks AFB, TX 78235-5000 DATE: 02 July 1991 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF PEA (3.6) #77 001-001 DOCUMENT NUMBER: LONG TITLE: Transmittal Letter for Protocols for Baseline Risk Assessments AUTHOR: Arthur Ditto, RPM USAF/Pease AFB Richard Pease, RPM **RECIPIENT:** NHDES DATE: 18 July 1991 TYPE: Transmittal Letter SECOND REFERENCE: **Baseline Risk Assessments** LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #78 001-001 LONG TITLE: Transmittal Letter for Protocols for Baseline Risk Assessments Arthur Ditto, RPM AUTHOR: USAF/Pease AFB RECIPIENT: Johanna Hunter, RPM U.S. EPA, Region 1 DATE: 18 July 1991 TYPE: **Transmittal** Letter SECOND REFERENCE: **Baseline Risk Assessments** LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #79 001-001 LONG TITLE: Submittal of Secondary Document AUTHOR: USAF **RECIPIENT:** Richard Pease, NHDES Johanna Hunter, USEPA DATE: 18 July 1991 TYPE: Letter SECOND REFERENCE: Site 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #80 001-002 LONG TITLE: Exploratory Boring Soil Sampling Procedures AUTHOR: Edward S. Barnes Roy F. Weston, Inc. **RECIPIENT:** Capt. Logan Van Leigh U.S. Air Force Air Force Center for Environmental Excellence DATE: 26 July 1991 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #81 001-001 LONG TITLE: Vented Monitoring Wells AUTHOR: Scott Doane, Hydrogeologist Groundwater Technology Section Groundwater Protection Bureau

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #71 001-001 Background Determination Protocols USAF Johanna Hunter, USEPA 07 June 1991 Letter None ARF
Docation.	#
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #72 001-003 Revised Analytical Methods for Pease AFB GC/MS Method 8260 for VOA Edward S. Barnes, Roy F. Weston, Inc. USAF 11 June 1991 Letter None ARF
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #73 001-001 Laboratory Services Richard Pease, NHDES Art Ditto, Pease AFB 13 June 1991 Letter None ARF
	*
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #74 001-004 Pease AFB Feedback on Site 8 Sampling - June 1991 Richard Pease, NHDES Art Ditto, Pease AFB 19 June 1991 Letter Site 8 ARF
Loundon.	#
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	PEA (3.6) #75 001-002 EPA Pump Test Information Request to be Provided by Air Force Johanna Hunter, RPM U.S. EPA Region 1 Art Ditto, RPM USAF
DATE: TYPE: SECOND REFERENCE:	Pease AFB 27 June 1991 Letter None
LOCATION:	ARF #
DOCUMENT NUMBER: LONG TITLE:	PEA (3.6) #76 001-002 Roy F. Weston, Inc., Proposed Methods for Determining Background Concentrations at Pease Air Force Base, New Hampshire
AUTHOR: RECIPIENT:	George Rice, Mitre Corporation Dennis Lundquist Human Systems Division IRP Program Office HSD/YAQ

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DATE: TYPE: SECOND REFERENCE: LOCATION:	Brooks AFB, TX 78235-5000 14 May 1991 Letter None ARF
	#
DOCUMENT NUMBER:	PEA (3.6) #66 001-002
LONG TITLE:	Revised Analytical Methods for Pease AFB
AUTHOR:	Logan VanLeigh, Capt., USAF, BSC
RECIPIENT:	Technical Program Manager Johanna Hunter, RPM U.S. EPA, Region 1
DATE:	31 May 1991
TYPE:	Letter
SECOND REFERENCE:	Sampling and Analysis Plan (3.1)
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #67 001-005
LONG TITLE:	Procedure for Establishing Background Metal Concentrations for Groundwater and Soil
AUTHOR:	Edward S. Barnes, Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	03 June 1991
TYPE:	Letter
SECOND REFERENCE: LOCATION:	None
	#
DOCUMENT NUMBER:	PEA (3.6) #68 001-012
LONG TITLE:	Information to Assist Interpretation of Data Submitted by EPA to the Air Force
AUTHOR:	Johanna Hunter, USEPA
RECIPIENT:	Art Ditto, Pease AFB
DATE:	06 June 1991
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
DOCUMENT NUMBER:	PEA (3.6) #69 001-004
LONG TITLE:	Resolution Letter for Procedures for 8260 for VOC Analysis of Water
AUTHOR:	Mark McKenzie, Pease AFB
RECIPIENT:	Richard Pease, NHDES
<b></b>	Carl Gysler, Earth Technology, San Bernardino, CA Johanna Hunter, USEPA
DATE:	06 June 1991
TYPE:	Fax
SECOND REFERENCE:	None
LOCATION:	ARF
LUCATION:	#
DOCUMENT NUMBER:	PEA (3.6) #70 001-001
LONG TITLE:	Background Determination Protocols
AUTHOR:	USAF
RECIPIENT:	Richard Pease, NHDES
DATE:	07 June 1991
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
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DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.6) #60 001-001 Surface Water and Sediment Sampling Locations Arthur Ditto, RPM USAF/Pease AFB
RECIPIENT:	Johanna Hunter, RPM U.S. EPA, Region 1
DATE:	24 April 1991
TYPE:	Letter (Transmittal)
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #61 001-008
LONG TITLE:	Field Oversight Coordination
AUTHOR:	Johanna Hunter, USEPA
RECIPIENT:	Arthur Ditto, Pease AFB
DATE:	29 April 1991
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.6) #62 001-004
LONG TITLE:	Preliminary Sampling Schedule for Stage 3C IRP Sites through November 1991
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, USEPA
	Richard Pease, NHDES
DATE:	02 May 1991
TYPE:	Fax
SECOND REFERENCE:	None
LOCATION:	ARF ·
	*
DOCUMENT NUMBER:	PEA (3.6) #63 001-003
LONG TITLE:	Review of April 25, 1991 Revised Analytical Methods
AUTHOR:	Johanna Hunter, USEPA
RECIPIENT:	Art Ditto, Pease AFB
DATE:	08 May 1991
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #64 001-002
LONG TITLE:	Review of April 25, 1991 Revised Analytical Methods
AUTHOR:	Johanna Hunter, USEPA
RECIPIENT:	Art Ditto, Pease AFB
DATE: TYPE:	08 May 1991 Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.6) #65.001.005
LONG TITLE:	PEA (3.6) #65 001-005 Field Performance Review of Weston Activities, Pease Air Force Base, New Hampshire
AUTHOR	Mitre Corporation
RECIPIENT:	Dennis Lundquist
	Human Systems Division
	IRP Program Office
	HSD/YAQ
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**RECIPIENT:** EPA DATE: 1991 TYPE: Response to Comments SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #55 001-003 LONG TTTLE: Off-Base Sampling at Pease Air Force Base Richard Pease, NHDES AUTHOR: Art Ditto, Pease AFB **RECIPIENT:** DATE: 25 October 1990 TYPE: Letter SECOND REFERENCE: None ARF LOCATION: DOCUMENT NUMBER: PEA (3.6) #56 001-001 EPA Concerns LONG TTTLE: U.S. Air Force - Internal Note AUTHOR: **RECIPIENT:** Art Ditto/USAF/Pease AFB DATE: 8 April 1991 TYPE: Internal Record of Phone Conversation with EPA and NHDES SECOND REFERENCE: None ARF LOCATION: # DOCUMENT NUMBER: PEA (3.6) #57 001-004 LONG TITLE: **Issues Needing Resolution Prior to Upcoming Field Efforts** AUTHOR: Johanna Hunter, RPM U.S. EPA, Region 1 **RECIPIENT:** Arthur Ditto, RPM USAF, Pease AFB DATE: 10 April 1991 TYPE: Letter SECOND REFERENCE: Stage 3 and 4 Work Plan (3.3) LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #58 001-002 LONG TITLE: Review of Risk Assessment Data and Sampling Procedures AUTHOR: Johanna Hunter, USEPA RECIPIENT: Arthur Ditto, Pease AFB DATE: 16 April 1991 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #59 001-067 LONG TITLE: **Concerns about Analytical Methods** AUTHOR: USAF **RECIPIENT:** USAF Johanna Hunter, USEPA Roy F. Weston, Inc. DATE: 23 April 1991 TYPE: Fax with Attachments SECOND REFERENCE: None LOCATION: ARF

RECIPIENT:	Air Force
DATE:	29 October 1990
TYPE:	Review Comments
SECOND REFERENCE:	None -
LOCATION:	ARF
	<b>#</b>
DOCUMENT NUMBER:	PEA (3.6) #49 001-076
LONG TITLE:	"EPA technical review of the Draft IRP Stage 4 Work Plan and Sampling and Analysis Plan for Pease Air Force Base"
AUTHOR:	U.S. EPA
RECIPIENT:	Air Force
DATE:	2 November 1990
TYPE:	Review Comments
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #50 001-002
LONG TITLE:	"Response to Air Force questions on state comments to the Stage 4 Work Plan"
AUTHOR:	State of New Hampshire, Department of Environmental Services
RECIPIENT:	Air Force
DATE:	3 December 1990
TYPE:	Response to Air Force questions on State of New Hampshire comments
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #51 001-007
LONG TITLE:	"Response to EPA comments on the Pease AFB Stage 4 Work Plan/Sampling and Analysis Plan"
AUTHOR:	U.S. Air Force
RECIPIENT:	EPA
DATE:	10 December 1990
TYPE	Air Force responses to EPA comments
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	DEA (2.4) 402 001 008
LONG TITLE:	PEA (3.6) #52 001-008 "Air Force Response to NHDES Comments - Draft Final Stage 4 Work Plan and Sampling and Analysis Plan"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	Air Force
DATE:	7 February 1991
TYPE:	Response to Comments
SECOND REFERENCE:	None
LOCATION:	ARF
LOCATION.	AN <b>#</b>
DOCUMENT NUMBER:	PEA (3.6) #53 001-008
LONG TITLE:	"EPA initial approval of the IRP Stage 4 Work Plan and Sampling and Analysis Plan"
AUTHOR:	U.S. EPA
RECIPIENT:	Air Force
DATE:	13 March 1991
TYPE:	Letter concerning EPA initial approval of Stage 4 Work Plan and Sampling and Analysis Plan
SECOND REFERENCE:	None
LOCATION:	ARF #
	F Contraction of the second se
DOCUMENT NUMBER:	PEA (3.6) #54 001-058
LONG TITLE:	"Air Force Response to EPA comments on the Stage 4 Work Plan and Sampling and Analysis Plan"
AUTHOR:	Roy F. Weston, Inc.

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DATE:	14 February 1991
TYPE:	Review Comments
SECOND REFERENCE:	PEA (3.4) # 32 001-338
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (3.6) #43 001-004
LONG TITLE:	"Issues Needing Resolution Prior to the Upcoming Field Efforts"
AUTHOR:	U.S. EPA
RECIPIENT:	Air Force
DATE	10 April 1991
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
Location	AN #
	*
DOCUMENT NUMBER	PEA (3.6) #44 001-030
LONG TITLE:	
AUTHOR:	"Response to Comments. Landfill 5 Site Characterization Summary - Informal Technical Information Report" Roy F. Weston, Inc.
	Air Force
RECIPIENT:	
DATE:	7 June 1991
TYPE:	Response to Comments
SECOND REFERENCE:	PEA (3.4) #32 001-338
LOCATION:	ARF
	*
DOCT BUENT NIL BURED.	DEA /2 () #45 001 020
DOCUMENT NUMBER:	PEA (3.6) #45 001-030
LONG TITLE:	"(Revised) Response to Comments. Landfill 5 - Site Characterization Summary, Informal Technical Information
	Report .
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	Air Force
DATE:	17 July 1991
TYPE:	
SECOND REFERENCE:	PEA (3.4) #32 001-338
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #46 001-038
	•
LONG TITLE:	"Response to Comments - Stage 4 Work Plan and SAP"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	Air Force
DATE:	28 September 1990
TYPE:	Response to Comments
SECOND REFERENCE:	None
LOCATION:	ARF
	#
	DEA (2.4) 447.001.011
DOCUMENT NUMBER:	PEA (3.6) #47 001-011
LONG TITLE:	"Review comments on the Installation Restoration Plan (IRP) Stage 4 Work Plan and Sampling and Analysis Plan"
AUTHOR:	State of New Hampshire, Department of Environmental Services
RECIPIENT:	Air Force
DATE:	16 October 1990
TYPE:	Review Comments
SECOND REFERENCE:	None
LOCATION:	ARF
	*
	10 A (1 4) #48 001 017
DOCUMENT NUMBER:	PEA (3.6) #48 001-017
LONG TITLE:	"The Town of Newington review comments on the IRP Stage 4 Work Plan"
AUTHOR:	The Town of Newington

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TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #37 001-002 LONG TITLE: "Letter regarding testing of IRP Site 32/36 well" AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** Air Force DATE: 27 September 1990 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #38 001-002 LONG TITLE: "Information Letter 3 - Documenting discussion on 25 October 1990" AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** Air Force DATE 29 October 1990 TYPE: Letter SECOND REFERENCE: None ARF LOCATION: DOCUMENT NUMBER: PEA (3.6) #39 001-002 LONG TITLE: "Letter regarding the disposal of clean soil cuttings and drilling mud" AUTHOR: Department of the Air Force **RECIPIENT:** Roy F. Weston, Inc. DATE: 1 November 1990 TYPE: Letter SECOND REFERENCE: None ARF LOCATION: DOCUMENT NUMBER: PEA (3.6) #40 001-007 "Stage 3, Landfill 5 Site Characterization Summary Informal Technical Information Report; review comments" LONG TITLE: AUTHOR: State of New Hampshire, Department of Environmental Services **RECIPIENT:** Air Force DATE: 30 January 1991 TYPE: **Review** Comments SECOND REFERENCE: PEA (3.4) #32 001-338 LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #41 001-008 LONG TITLE: "Response to Comments - Draft Final Stage 4 Work Plan and Sampling And Analysis Plan" Roy F. Weston, Inc. AUTHOR: RECIPIENT: Air Force 7 February 1991 DATE: TYPE: Letter/Response to Comments SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #42 001-017 LONG TITLE: *EPA review comments on the Stage 3, Landfill 5 Site Characterization Summary Informal Technical Information Report" AUTHOR: U.S. EPA RECIPIENT: Air Force

TYPE: Letter - Pertaining to RI SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #31 001-002 LONG TITLE: "Letter regarding well installation modification" AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** Air Force DATE: 5 July 1990 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #32 001-004 LONG TITLE: "Letter regarding procedures used in installing and abandoning monitor well 632" AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** Air Force DATE: 8 August 1990 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #33 001-001 "Letter regarding June 1990 Pickering Spring sampling results" LONG TITLE: State of New Hampshire, Department of Environmental Services AUTHOR: **RECIPIENT:** Peggy Lamson, Selectman & Town Health Officer, Newington, NH DATE: 15 August 1990 TYPE: Letter None SECOND REFERENCE: LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #34 001-004 "Letter regarding the disposal of clean water, drilling mud and soil" LONG TITLE: AUTHOR: Roy F. Weston, Inc. RECIPIENT: Air Force DATE: 25 September 1990 TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #35 001-002 "Letter regarding procedures for handling solids and liquids during well construction and soil borings" LONG TTILE: AUTHOR: State of New Hampshire, Department of Environmental Services **RECIPIENT:** Air Force 25 September 1990 DATE: TYPE: Letter SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #36 001-006 LONG TITLE: *Letter regarding Pease Air Force Base well installation - IRP Site 8* AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** Air Force DATE: 26 September 1990

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LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #25 001-009
LONG TITLE: AUTHOR:	"Special Notification concerning the results of sampling monitor Well 562A at Site 8"
RECIPIENT:	Roy F. Weston, Inc. Air Force
DATE:	1 February 1990
TYPE:	Letter - Pertaining to RI
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.6) #26 001-002
LONG TITLE:	"Followup to Special Notification (1 February 1990) concerning groundwater samples from Well 562A at Site 8"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	Air Force
DATE:	16 February 1990
TYPE:	Letter – Pertaining to RI
SECOND REFERENCE:	None
LOCATION:	ARF #
	π
DOCUMENT NUMBER:	PEA (3.6) #27 001-002
LONG TITLE:	"Letter summarizing discussions between Roy F. Weston, Inc. and the New Hampshire Department of Environmental
	Services concerning on-site handling and disposal of soil and water generated during drilling, development, purging,
	and pump testing of wells"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT: DATE:	Air Force 12 March 1990
TYPE:	Letter - Pertaining to 3.4
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #28 001-004
LONG TITLE:	"Letter regarding recent and scheduled future activity in the bulk fuel storage area"
AUTHOR:	Department of the Air Force
RECIPIENT:	Roy F. Weston, Inc.
DATE:	10 May 1990
TYPE:	Letter - Pertaining to RI
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.6) #29 001-007
LONG TITLE:	"Review comments on the Stage 3 Work Plan for the IRP"
AUTHOR:	U.S. EPA
RECIPIENT:	Air Force
DATE:	7 June 1990
TYPE:	Review Comments – Pertaining to RI
SECOND REFERENCE:	None ARF
LOCATION:	AKF #
	-
DOCUMENT NUMBER:	PEA (3.6) #30 001-002
LONG TITLE:	*Letter concerning proposed drilling locations, Stage 3B*
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT: DATE:	Air Force 12 June 1990

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SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #19 001-002 LONG TITLE: "Installation Restoration Program (IRP) at Pease AFB, NH" AUTHOR: Department of the Air Force **RECIPIENT:** Air Force DATE: 8 March 1989 TYPE: Memorandum -- Pertaining to RI SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #20 001-002 LONG TTILE: "Work Plan for the IRP Stage 3 and IIR #4" AUTHOR: Department of the Air Force **RECIPIENT:** Air Force DATE: 3 April 1989 TYPE: Memorandum - Pertaining to RI SECOND REFERENCE: None ARF LOCATION: 4 DOCUMENT NUMBER: PEA (3.6) #21 001-007 LONG TITLE: "Consolidated Comments to the IRP Stage 3 Work Plan for Pease Air Force Base, NH" AUTHOR: Department of the Air Force **RECIPIENT:** Roy F. Weston, Inc. DATE: 1 June 1989 TYPE: Review Comments - Pertaining to RI SECOND REFERENCE: None LOCATION: ARF PEA (3.6) #22 001-001 DOCUMENT NUMBER: LONG TTILE: "Review Comments Regarding the Work Plan and QAPP - Stage 3" AUTHOR: State of New Hampshire, Department of Environmental Services RECIPIENT: Air Force DATE: 16 June 1989 TYPE: Review Comments - Pertaining to RI SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #23 001-008 "Stage 3 Work Plan - Response to Comments" LONG TITLE: Roy F. Weston, Inc. AUTHOR: **RECIPIENT:** Air Force DATE: 29 June 1989 TYPE: Response to Comments - Pertaining to RI SECOND REFERENCE: None LOCATION: ARF 4 DOCUMENT NUMBER: PEA (3.6) #24 001-008 "Consolidated Comments to the IRP Stage 3 Quality Assurance Project Plan (QAPP) for Pease Air Force Base, NH" LONG TITLE: AUTHOR: Department of the Air Force **RECIPIENT:** Roy F. Weston, Inc. DATE: 29 June 1989 TYPE: Review Comments - Pertaining to RI SECOND REFERENCE: None

SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #13 001-020 LONG TITLE: "Review Comments to the IRP Stage 2 RI/FS Draft Report" AUTHOR: Department of the Air Force RECIPIENT: Roy F. Weston, Inc./Air Force DATE: 15 March 1990 TYPE: Review Comments Serving 3.4 (Preliminary RI Field Work Reports) SECOND REFERENCE: None LOCATION: ARF 4 DOCUMENT NUMBER: PEA (3.6) #14 001-004 LONG TITLE: "Sampling Data for Off-Site Sampling at Pease AFB" State of New Hampshire, Water Supply and Pollution Control Division AUTHOR: **RECIPIENT:** Air Force DATE: 5 July 1990 TYPE: Sampling Data SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #15 001-010 LONG TTTLE: "Pease AFB, Site 8 Sampling Data" AUTHOR: State of New Hampshire, Department of Environmental Services RECIPIENT: Air Force, EPA DATE: September 1990 TYPE: Sampling Data SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #16 001-003 LONG TITLE: "Off-Base Sampling at Pease AFB" AUTHOR: State of New Hampshire, Department of Environmental Services **RECIPIENT:** Air Force DATE: 25 October 1990 TYPE: Sampling Results SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #17 001-013 LONG TITLE: "Split Sampling Results, Site 8 and Site 34" AUTHOR: State of New Hampshire, Department of Environmental Services RECIPIENT: Air Force DATE: 29 October 1990 TYPE: Sampling Results SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.6) #18 001-065 LONG TITLE: "Sampling Results from Pease AFB, Newington, Portsmouth" AUTHOR: State of New Hampshire, Department of Environmental Services **RECIPIENT:** Air Force DATE: 17 January 1991 TYPE: Sampling Data

LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (3.6) #7 001-002
LONG TITLE:	"Review of Work Plan Removal of Source Contamination at Building 244"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	Air Force
DATE:	8 March 1989
TYPE:	Letter Serving 3.4 (Preliminary RI Field Work Reports)
SECOND REFERENCE:	None
LOCATION:	ARF #
	•
DOCUMENT NUMBER:	PEA (3.6) #8 001-001
LONG TTILE:	"Letter Regarding Technical Review of Building 244 Solvent Tank Removal and Off-Site Contaminant Migration"
AUTHOR:	State of New Hampshire, Department of Environmental Services
RECIPIENT:	Air Force
DATE: TYPE:	3 May 1989 Letter/Comments Serving 3.4 (Preliminary RI Field Work Reports)
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.6) #9 001-002
LONG TITLE:	"Letter Concerning Disposal of Drill Cuttings From Stage 2 IRP Investigations"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	Air Force
DATE:	2 October 1989
TYPE:	Letter Serving 3.4 (Preliminary RI Field Work Reports)
SECOND REFERENCE: LOCATION:	None ARF
DOCATION.	#
DOCUMENT NUMBER:	PEA (3.6) #10 001-003
LONG TITLE:	"Review Comments on the Phase II, Stage 2 IRP, Draft Final Report"
AUTHOR:	State of New Hampshire, Department of Environmental Services Air Force
RECIPIENT: DATE:	28 February 1990
TYPE:	Review Comments on Phase II, Stage 2, IRP Serving 3.4 (Preliminary RI Field Work Reports)
SECOND REFERENCE:	None
LOCATION:	ARF
DOCUMENT NUMBER:	PEA (3.6) #11 001-011
LONG TITLE:	"Review Comments for the Pease AFB, Phase II, Stage 2 IRP Draft Final Report"
AUTHOR:	U.S. EPA
RECIPIENT:	Air Force
DATE:	7 March 1990
TYPE:	Review Comments Serving 3.4 (Preliminary RJ Field Work Reports)
SECOND REFERENCE:	None
LOCATION:	ARF #
-	
DOCUMENT NUMBER:	PEA (3.6) #12 001-010
LONG TITLE:	"Review Comments Regarding the IRP, Stage 2 Draft Final Report (December 1989)"
AUTHOR: RECIPIENT:	U.S. Department of Commerce, National Oceanic and Atmospheric Administration Air Force via EPA
DATE:	7 March 1990
TYPE:	Review Comments Serving 3.4 (Preliminary RI Field Work Reports)
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3.6 Correspondence - RI

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## 3.6 RI Correspondence

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #1 001-001 *Comments Regarding the Work Plan for the IRP Stage 2* State of New Hampshire, Department of Environmental Services Air Force 27 July 1987 Comments Serving 3.4 (Preliminary RI Field Work Reports) None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #2 001-006 "Letter Regarding IRP, Stage 2" Roy F. Weston, Inc. Air Force 11 November 1987 Letter Serving 3.4 (Preliminary RI Field Work Reports) None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #3 001-001 "Letter Stating Conformance of the Stage 2, Quality Assurance Project Plan With Air Force IRP Practices" State of New Hampshire, Department of Environmental Services Air Force 12 November 1987 Letter Serving 3.4 (Preliminary RI Field Work Reports) None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #4 001-001 "Letter Regarding the Suspect Fire Training Area" Roy F. Weston, Inc. Air Force 16 December 1987 Letter Serving 3.4 (Preliminary RI Field Work Reports) None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.6) #5 001-003 "Letter Concerning Short-Duration Pumping Tests of the Haven and Harrison Water Supply Wells" Roy F. Weston, Inc. Air Force 14 June 1988 Letter Serving 3.4 (Preliminary RI Field Work Reports) None ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.6) #6 001-001 "Letter Concerning Drilling Program" Roy F. Weston, Inc. Air Force 20 October 1988 Letter Serving 3.4 (Preliminary RI Field Work Reports) None

LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix K
AUTHOR:	DRAFT Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #102 001-R.7
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 4 Remedial Investigation Report DRAFT Section 6
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Report
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	#
DOCUMENT NUMBER: LONG TITLE:	PEA (3.5) #103 001-L-7 U.S. Air Force Installation Restoration Program Pease AFB Zone 4 Remedial Investigation Report DRAFT
Long mee	U.S. Air Force installation Restoration Program Pease AFB Zone 4 Remedial Investigation Report DRAFT Appendix L
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #104 001-G.1
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Landfill 5 Remedial Design Excavation/Relocation Plan
	for Waste, Soil and Sediment Text DRAFT (90% Submittal)
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	July 1993
TYPE:	Remedial Design
SECOND REFERENCE:	LF-S
LOCATION:	ARF
	*
	PEA /2 \$\ #105 001 12250 9
DOCUMENT NUMBER: LONG TITLE:	PEA (3.5) #105 001-13250-8 U.S. Air Force Installation Restoration Program Pease AFB Remedial Design Excavation/Relocation Plan for Watte,
	Soil and Sediment Landfills 2, 4 and 5 Technical Specifications DRAFT (90% Submittal)
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	July 1993
TYPE:	Specifications
SECOND REFERENCE:	LF-2, LF-4, LF-5
LOCATION:	ARF

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SECOND REFERENCE:	Zone 3
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #96 001-H
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix H Part
	3 of 3 DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
	#
	-
DOCUMENT NUMBER:	PEA (3.5) #97 001-2388
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix I Part
LONG IIILE.	
	1 of 2 DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
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	<b>*</b>
DOCUMENT NUMBER:	PEA (3.5) #98 2424-5307
LONG TTILE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix I Part
LONG IIILE:	
	2 of 2 DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
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	-
DOCUMENT NUMBER:	PEA (3.5) #99 001-J
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix J Part
Long Hills	
	1 of 2 DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #100 001-J
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix J Part
	2 of 2 DRAFT
ALTELOD.	Roy F. Weston, Inc.
AUTHOR:	•
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (3.5) #101 001-K6-4
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RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendices
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #91 001-B
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix B Part
	1 of 2 DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT	USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (3.5) #92 001-B
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix B Part
	2 of 2 DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #93 001-M.79
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendices E,
AUTHOR:	F, G, L and M DRAFT Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendices
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #94 001-H.4
LONG TTILE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix H Part
	1 of 3 DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 3
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #95 001-H
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Appendix H Part
	2 of 3 DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Appendix
	Appendix

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3.6 Correspondence - RI

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DOCUMENT NUMBER: PEA (3.5) #85 001-L2 U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial-Investigation Report Appendix I Part LONG TTTLE: 2 of 2 DRAFT Roy F. Weston, Inc. AUTHOR: **RECIPIENT:** USAF DATE: May 1993 Appendix TYPE: SECOND REFERENCE: Zone 2 LOCATION: ARF DOCUMENT NUMBER: PEA (3.5) #86 001-K.7-4 LONG TTILE: U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix K DRAFT AUTHOR: Roy F. Weston, Inc. RECIPIENT: USAF DATE: May 1993 TYPE: Appendix SECOND REFERENCE: Zone 2 ARF LOCATION: 4 DOCUMENT NUMBER: PEA (3.5) #87 001-Acr.5 LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Text DRAFT AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** USAF DATE: April 1993 TYPE: Report SECOND REFERENCE: Zone 3 LOCATION: ARF 4 DOCUMENT NUMBER: PEA (3.5) #88 001-6.401 LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Section 6 Tables DRAFT AUTHOR: Roy F. Weston, Inc. RECIPIENT: USAF DATE: April 1993 TYPE: Tables SECOND REFERENCE: Zone 3 LOCATION: ARF DOCUMENT NUMBER: PEA (3.5) #89 001-Plate 4 LONG TITLE: U.S. Air Force Installation Restoration Program Pease AFB Zone 3 Remedial Investigation Report Figures DRAFT AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** USAF DATE: April 1993 TYPE: Figures SECOND REFERENCE: Zone 3 LOCATION: ARF . DOCUMENT NUMBER: PEA (3.5) #90 001-D.26 LONG TITLE: U.S. Air Force Installation Restoration Program Peace AFB Zone 3 Remedial Investigation Report Appendices A, C and D DRAFT AUTHOR: Roy F. Weston, Inc.

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RECIPIENT:	USAF
DATE:	May 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 2
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (3.5) #80 001-M
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix B Part
	2 of 2 and Appendices F, G, L and M DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1993
TYPE:	•
	Appendices
SECOND REFERENCE:	Zone 2
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #81 001-H.5
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix H Part
LONG ITTEE.	1 of 2 DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 2
LOCATION:	ARF
	*
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DOCUMENT NUMBER:	PEA (3.5) #82 001-J.262
LONG TITLE:	U.S. Air Force Installation Restoration Program Peace AFB Zone 2 Remedial Investigation Report Appendix H Part
	2 of 2 and Appendix J Part 1 of 2 DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1993
TYPE:	Appendices
SECOND REFERENCE:	Zone 2
LOCATION:	ARF
	*
DOCTIMENT NUMBER.	PEA (3.5) #83 001-N
DOCUMENT NUMBER:	
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix J Part
	2 of 2 and Appendix N DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1993
TYPE:	Appendices
SECOND REFERENCE:	Zone 2
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #84 001-I.1
LONG TTTLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix I Part
AT THOR.	1 of 2 DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 2
LOCATION:	ARF

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DOCUMENT NUMBER: PEA (3.5) #74 001-K.3 LONG TTILE: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix K DRAFT AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** USAF DATE: April 1993 TYPE: Appendix SECOND REFERENCE: Zone 1 ARF LOCATION: # PEA (3.5) #75 001-L DOCUMENT NUMBER: U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix L LONG TTTLE: DRAFT Roy F. Weston, Inc. AUTHOR: **RECIPIENT:** USAF April 1993 DATE Appendix TYPE: SECOND REFERENCE: Zone 1 ARF LOCATION: DOCUMENT NUMBER: PEA (3.5) #76 001-Acr.4 U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Text DRAFT LONG TITLE: AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** USAF DATE: May 1993 TYPE: Report SECOND REFERENCE: Zone 2 ARF LOCATION: 4 DOCUMENT NUMBER: PEA (3.5) #77 001-6.4-3 U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Figures DRAFT LONG TTILE: Roy F. Weston, Inc. AUTHOR: USAF RECIPIENT: May 1993 DATE TYPE: Figures SECOND REFERENCE: Zone 2 LOCATION: ARF DOCUMENT NUMBER: PEA (3.5) #78 001-E U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendices A, LONG TITLE: C, D and E DRAFT Roy F. Weston, Inc. AUTHOR: USAF **RECIPIENT:** DATE: May 1993 Appendices TYPE: SECOND REFERENCE: Zone 2 ARF LOCATION: # DOCUMENT NUMBER: PEA (3.5) #79 001-F.29 U.S. Air Force Installation Restoration Program Pease AFB Zone 2 Remedial Investigation Report Appendix B Part LONG TITLE: 1 of 2 DRAFT AUTHOR: Roy F. Weston, Inc.

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3.6 Correspondence - RI

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SECOND REFERENCE: LOCATION:	Zone 1 ARF
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.5) #69 001-G U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendices E.F and G DRAFT Roy F. Weston, Inc. USAF April 1993 Appendices Zone 1 ARF
	*
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	PEA (3.5) #70 001-H-4.95 U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix H Part 1 of 2 DRAFT Roy F. Weston, Inc. USAF
DATE:	April 1993
TYPE: SECOND REFERENCE:	Appendix Zone 1
LOCATION:	ARF
	*
DOCUMENT NUMBER: LONG TITLE:	PEA (3.5) #71 001-H U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix H Part 2 of 2 DRAFT
AUTHOR: RECIPIENT:	Roy F. Weston, Inc. USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE: LOCATION:	Zone 1 ARF
	#
DOCUMENT NUMBER: LONG TITLE:	PEA (3.5) #72 001-2853 U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix I DRAFT
AUTHOR: RECIPIENT:	Roy F. Weston, Inc. USAF
DATE:	April 1993
TYPE:	Appendix
SECOND REFERENCE: LOCATION:	Zone 1 ARF
Location,	
	*
DOCUMENT NUMBER:	PEA (3.5) #73 001-J
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix J DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT: DATE:	USAF April 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 1
LOCATION:	ARF

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3.6 Correspondence - RI

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LONG TITLE:	Installation Restoration Program, Stage 4 IRP Zone 5 Remedial Investigation Pease Air Force Base, NH 03803,
	Appendices K, L & M
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF -
DATE:	February 1993
TYPE:	Appendices
SECOND REFERENCE:	Zone 5
LOCATION:	ARF
20011101	*
	-
DOCUMENT NUMBER:	PEA (3.5) #64 001-N
LONG TITLE:	Installation Restoration Program, Stage 4 IRP Zone 5 Remedial Investigation Peace Air Force Base, NH 03803,
Eong mile	
	Appendix N
AUTHOR: RECIPIENT:	Roy F. Weston, Inc. USAF
DATE:	February 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 5
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #65 001-R15
LONG TTILE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Text DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Report
SECOND REFERENCE:	Zone 1
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #66 001-Plate 5
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Figures DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Figures
SECOND REFERENCE:	Zone 1
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #67 001-D8
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendices A,C
	and D DRAFT
AUTHOR:	and D DRAFT Roy F. Weston, Inc.
AUTHOR: RECIPIENT:	
	Roy F. Weston, Inc.
RECIPIENT:	Roy F. Weston, Inc. USAF
RECIPIENT: DATE: TYPE:	Roy F. Weston, Inc. USAF April 1993 Appendices
RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Roy F. Weston, Inc. USAF April 1993
RECIPIENT: DATE: TYPE:	Roy F. Weston, Inc. USAF April 1993 Appendices Zone 1
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RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	Roy F. Weston, Inc. USAF April 1993 Appendices Zone 1 ARF
RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	Roy F. Weston, Inc. USAF April 1993 Appendices Zone 1 ARF # PEA (3.5) #68 001-04/19/93
RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	Roy F. Weston, Inc. USAF April 1993 Appendices Zone 1 ARF PEA (3.5) #68 001-04/19/93 U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix B DRAFT
RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	Roy F. Weston, Inc. USAF April 1993 Appendices Zone 1 ARF PEA (3.5) #68 001-04/19/93 U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix B DRAFT Roy F. Weston, Inc.
RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	Roy F. Weston, Inc. USAF April 1993 Appendices Zone 1 ARF PEA (3.5) #68 001-04/19/93 U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix B DRAFT Roy F. Weston, Inc. USAF
RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	Roy F. Weston, Inc. USAF April 1993 Appendices Zone 1 ARF PEA (3.5) #68 001-04/19/93 U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix B DRAFT Roy F. Weston, Inc. USAF April 1993
RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	Roy F. Weston, Inc. USAF April 1993 Appendices Zone 1 ARF PEA (3.5) #68 001-04/19/93 U.S. Air Force Installation Restoration Program Pease AFB Zone 1 Remedial Investigation Report Appendix B DRAFT Roy F. Weston, Inc. USAF

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AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	February 1993
TYPE:	Appendices
SECOND REFERENCE:	Zone 5
LOCATION:	ARF
	 #
DOCUMENT NUMBER:	PEA (3.5) #58 001-L.6-2
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 5 Remedial Investigation Report Appendices B,D,
LONG MILL	
	E, F, G, and L DRAFT FINAL
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	August 1993
TYPE:	Appendices
SECOND REFERENCE:	Zone 5
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #59 001-I
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 5 Remedial Investigation Report Appendices H
	and I DRAFT FINAL
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	August 1993
TYPE:	Appendices
SECOND REFERENCE:	Zone 5
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #60 001-K
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 5 Remedial Investigation Report Appendices J and
	K DRAFT FINAL
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF •
DATE:	August 1993
TYPE:	Appendices
SECOND REFERENCE:	Zone 5
LOCATION:	ARF
	AUG #
	<b>T</b>
DOCUMENT NUMBER:	PEA (3.5) #61 001-J.2
LONG TITLE:	
LONG MILL	Installation Restoration Program, Stage 4 IRP Zone 5 Remedial Investigation Pease Air Force Base, NH 03803,
	Appendices J Part 2 of 3
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	February 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 5
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #62 001-J.3
LONG TITLE:	Installation Restoration Program, Stage 4 IRP Zone 5 Remedial Investigation Pease Air Force Base, NH 03803,
	Appendices J Part 3 of 3
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	February 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 5
	ARF
LOCATION:	
	*
DOCUMENT NUMBER:	PEA (3.5) #63 001-M
3.6 Correspondence - RI	
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RECIPIENT:	USAF
DATE:	March 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #52 001-1.2
LONG TITLE:	United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation
	Report, Appendix J 2 of 4
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	March 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #53 001-J.3
LONG TITLE:	United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation
20110 11122	Report, Appendix J 3 of 4
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	March 1993
TYPE:	Appendix
	Zone 4
SECOND REFERENCE:	ARF
LOCATION:	
DOGRACIT MURD	#
DOCUMENT NUMBER:	PEA (3.5) #54 001-J.4
LONG TITLE:	United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation
	Report, Appendix J 4 of 4
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	March 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #55 001-Act.4
LONG TITLE:	U.S. Air Force Installation Restoration Program, Pease Air Force Base, Zone 5 Remedial Investigation Report Text
	DRAFT FINAL
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	August 1993
TYPE:	Report
SECOND REFERENCE:	Zone 5
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #56 001-Plate 8
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zone 5 Remedial Investigation Report Figures DRAFT
	FINAL
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	August 1993
TYPE:	Figures
SECOND REFERENCE:	Zone 5
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #57 001-C
LONG TITLE:	Installation Restoration Program, Stage 4 IRP Zone 5 Remedial Investigation Pease Air Force Base, NH 03803,
	Appendices A, B & C

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RECIPIENT:	USAF
DATE:	March 1993
TYPE:	Report
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #46 001-C
LONG TITLE:	United States Air Force Installation Restoration Program, Pease Air Force Base. Zone 4 Remedial Investigation
	Report, Appendices A, B & C
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	March 1993
TYPE:	Appendices
SECOND REFERENCE	Zone 4
LOCATION:	ARF
Dournon	#
DOCUMENT NUMBER:	##7 001-G
LONG TITLE:	
Long mill.	United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation Report, Appendices D, E, F & G.
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	March 1993
TYPE:	
SECOND REFERENCE:	Appendices Zone 4
LOCATION:	ARF
LOCATION:	
DOCUMENT NUMBER:	# PEA (3.5) #48 001-I.1
LONG TITLE:	
Long mile	United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation Report, Appendix H and Appendix I, Part 1 of 2.
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	March 1993
TYPE:	Appendices
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
LOCATION	*
DOCUMENT NUMBER:	# PEA (3.5) #49 001-I.2
LONG TITLE:	
Long me	United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation Report, Appendix I Part 2 of 2
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	March 1993
TYPE:	Appendix
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
Louinon.	#
DOCUMENT NUMBER:	PEA (3.5) #50 001-O
LONG TITLE:	United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation
bond mill.	Report, Appendices K, M, N & O
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	March 1993
TYPE:	Appendices
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
DOCUMENT NUMBER:	# PEA (3.5) #51 001-J.1
LONG TITLE:	United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation
	Report, Appendix J 1 of 4
AUTHOR:	Roy F. Weston, Inc.
	and a strong allow

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TYPE:	Appendix
SECOND REFERENCE:	Site 8
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (3.5) #40 001-K.29
LONG TITLE:	Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Peace AFB, NH Appendices B, C, D,
LONG MILL.	
	G, H, J and K - Draft Final
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	November 1992
TYPE:	Appendices
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #41 001-6.4.2
LONG TITLE:	Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH Figures - Draft Final
AUTHOR:	Roy F. Weston, Inc.
	•
RECIPIENT:	USAF
DATE:	November 1992
TYPE:	Figures
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #42 001-7.8
LONG TITLE:	Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Peace AFB, NH, Technical Report -
	- Draft Final
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	November 1992
TYPE:	Report
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #43 001-126
LONG TITLE:	Haven Well Pumping Test Letter Report
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	Jim Snyder, AFCEE/ESB, USAF
DATE:	8 January 1993
TYPE:	Transmittal Letter, Letter Report, Maps, Appendices
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	# *
DOCUMENT NUMBER:	PEA (3.5) #44 001-Acr. 3
LONG TITLE:	United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation
	Report Text -Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	March 1993
TYPE:	Report
SECOND REFERENCE:	Zone 4
LOCATION:	ARF
	ANC #
DOCT BUENT NT THEPEP.	
DOCUMENT NUMBER:	PEA (3.5) #45 001-5.3-1
LONG TITLE:	United States Air Force Installation Restoration Program, Pease Air Force Base, Zone 4 Remedial Investigation
	Report Text -Draft
AUTHOR:	Roy F. Weston, Inc.

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3.5 Remedial Investigation (RI) Reports

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DOCUMENT NUMBER:	PEA (3.5) #34 001-C
LONG TITLE:	Installation Restoration Program, Stage 4, Site Characterization Summary, IRP Zone 1, Pease AFB, NH Appendices A-C – Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	October 1992
TYPE:	Appendices
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #35 001-ACR.1
LONG TITLE:	Installation Restoration Program, Stage 4, Site Characterization Summary, IRP Zone 2, Pease AFB, NH Text -Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	
DATE: TYPE:	October 1992 Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER: LONG TITLE:	PEA (3.5) #36 001-D.3 Installation Restoration Program. Stage 4, Site Characterization Summary, IRP Zone 5, Pease AFB, NH Technical
LONG TITLE	Report and Appendices A-D - Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	October 1992
TYPE:	Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #37 001-G.890
LONG TITLE	Installation Restoration Program, Stage 4, Site Characterization Summary, IRP Zone 5, Pesse AFB, NH Appendices
	E-G – Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	October 1992
TYPE: SECOND REFERENCE:	Appendices None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #38 001-D.3
LONG TITLE:	Installation Restoration Program. Stage 4, Site Characterization Summary, IRP Zone 5, Pease AFB, NH Technical Report and Appendices A-D Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	October 1992
TYPE:	Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #39 001-L
LONG TITLE:	Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH Appendix L - Draft
	Final
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
TIATE.	
DATE	November 1992

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3.5 Remedial Investigation (RI) Reports

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SECOND REFERENCE:	Site 8
LOCATION:	ARF
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	*
DOCUMENT NUMBER:	PEA (3.5) #29 J874-J1752
LONG TITLE:	Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH, Appendix J, Part 2 of 4 - Draft
AUTHOR: RECIPIENT:	Roy F. Weston, Inc. USAF
DATE:	July 1992
TYPE:	Appendix
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #30 J1753-J2661
LONG TITLE:	Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH. Appendix J, Part 3 of 4 – Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	July 1992
TYPE:	Appendix
SECOND REFERENCE:	Site 8
LOCATION:	ARF #
DOCUMENT NUMBER:	PEA (3.5) #31 J2662-J3221
LONG TITLE:	Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH, Appendix J, Part 4
	of 4 – Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT: DATE:	USAF
TYPE:	July 1992 Appendix
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #32 001-B43
LONG TITLE:	Installation Restoration Program, Stage 4, No Further Action Decision Document for IRP Site 3, Pease AFB, NH
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	September 1992
TYPE:	Decision Document
SECOND REFERENCE:	None
LOCATION:	ARF #
DOCUMENT NUMBER:	DEA /2 51 #22 001 2 1 1
LONG TITLE:	PEA (3.5) #33 001-3.1.1 Installation Restoration Program, Stage 4, Site Characterization Summary, IRP Zone 1, Pease AFB, NH Technical
LONG TITLE.	Report - Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	October 1992
TYPE:	Report
SECOND REFERENCE:	None
LOCATION:	ARF
	#

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	1 of 2 Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	July 1992
TYPE:	Appendix
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	 #
	"
DOCUMENT NUMBER:	PEA (3.5) #24 001-K2
LONG TITLE:	Installation Restoration Program. Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH, Appendix K, Part
	2 of 2 -Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	July 1992
TYPE:	Appendix
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.5) #25 001-11
LONG TITLE:	Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH, Appendices H-I1 -
	Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	July 1992
TYPE:	Appendices
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #26 001-12
LONG TITLE:	Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH, Appendices H-12 -
	Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	July 1992
TYPE:	Appendix
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (35) #27 001-0.31
LONG TITLE:	Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH, Appendices L-O -
	Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	July 1992
TYPE:	Appendices
SECOND REFERENCE:	Site 8
LOCATION:	ARF
	#
	PEA (3.5) #28 001-J873
DOCUMENT NUMBER:	
LONG TITLE:	Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH, Appendix J, Part 1
ALITUOP.	of 4 – Draft Por F. Wester, Inc.
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	July 1992
TYPE:	Appendix

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SECOND REFERENCE: Site 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (3.5) #18 001-N Installation Restoration Program, Stage 3C, IRP Site 32/36, Source Area Remedial Investigation, Pease AFB, NH, LONG TITLE: Appendices D, E, F, G, L, M and N - Draft Final AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** USAF DATE: June 1992 TYPE: Appendices SECOND REFERENCE: Site 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (3.5) #19 001-C LONG TITLE: Installation Restoration Program, Stage 3C, IRP Site 32/36 Source Area Remedial Investigation, Pease AFB, NH, Appendices A-C - Draft Final AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** USAF DATE: June 1992 TYPE: Appendices SECOND REFERENCE: Site 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (3.5) #20 001-ACR.3 LONG TTTLE: Installation Restoration Program, Stage 3C, IRP Site 32/36, Source Area Remedial Investigation, Pease AFB, NH, Technical Report - Draft Final AUTHOR: Roy F. Weston, Inc. RECIPIENT: USAF DATE: June 1992 TYPE: Report SECOND REFERENCE: Site 32/36 LOCATION: ARF DOCUMENT NUMBER: PEA (3.5) #21 001-C LONG TITLE: Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH, Appendix C -- Draft AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** USAF DATE: July 1992 TYPE: Appendix SECOND REFERENCE: Site 8 LOCATION: ARF DOCUMENT NUMBER: PEA (3.5) #22 001-G Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH, Appendices D-G -LONG TITLE: Draft AUTHOR: Roy F. Weston, Inc. **RECIPIENT:** USAF DATE: July 1992 TYPE: Appendices SECOND REFERENCE: Site 8 LOCATION: ARF # DOCUMENT NUMBER: PEA (3.5) #23 001-K1 LONG TITLE: Installation Restoration Program, Stage 3C, IRP Site 8 Remedial Investigation, Pease AFB, NH, Appendix K, Part

LONG TITLE:	Installation Restoration Program. Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation
	Pease AFB, Appendices A-H, - Draft Final
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF 🗕 –
DATE:	May 1992
TYPE:	Appendices
SECOND REFERENCE:	Site 34
LOCATION:	ARF
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	<b>T</b>
DOCUMENT NUMBER	PEA (3.5) #13 001-1608
LONG TITLE:	Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation
	Pease AFB, Appendices I-J, -Draft Final
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1992
TYPE:	Appendices
SECOND REFERENCE:	Site 34
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #14 001-M.16
LONG TITLE:	Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation,
	Pease AFB, Appendices K-M, - Draft Final
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1992
TYPE:	Appendices
SECOND REFERENCE:	Size 34
LOCATION:	ARF
	*
	*
DOCUMENT NUMBER:	PEA (3.5) #15 001-6.4.1
DOCUMENT NUMBER: LONG TITLE:	
	PEA (3.5) #15 001-6.4.1
	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation,
LONG TTILE:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final
LONG TITLE: AUTHOR:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF # PEA (3.5) #16 001-B.12
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF # PEA (3.5) #16 001-B.12 Sampling Locations and Results Drainage Area Letter Report
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF # PEA (3.5) #16 001-B.12 Sampling Locations and Results Drainage Area Letter Report Roy F. Weston, Inc.
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF # PEA (3.5) #16 001-B.12 Sampling Locations and Results Drainage Area Letter Report Roy F. Weston, Inc. USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF # PEA (3.5) #16 001-B.12 Sampling Locations and Results Drainage Area Letter Report Roy F. Weston, Inc. USAF May 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF # PEA (3.5) #16 001-B.12 Sampling Locations and Results Drainage Area Letter Report Roy F. Weston, Inc. USAF May 1992 Report
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF # PEA (3.5) #16 001-B.12 Sampling Locations and Results Drainage Area Letter Report Roy F. Weston, Inc. USAF May 1992 Report None
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LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Size 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF # PEA (3.5) #16 001-B.12 Sampling Locations and Results Drainage Area Letter Report Roy F. Weston, Inc. USAF May 1992 Report None ARF # PEA (3.5) #17 001-6.4.1
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF PEA (3.5) #16 001-B.12 Sampling Locations and Results Drainage Area Letter Report Roy F. Weston, Inc. USAF May 1992 Report None ARF
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LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.5) #15 001-6.4.1 Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation, Pease AFB, NH - Figures -Draft Final Roy F. Weston, Inc. USAF May 1992 Figures Site 34 ARF # PEA (3.5) #16 001-B.12 Sampling Locations and Results Drainage Area Letter Report Roy F. Weston, Inc. USAF May 1992 Report None ARF # PEA (3.5) #17 001-6.4.1 Installation Restoration Program, Stage 3C IRP Site 32/36 Source Area Remedial Investigation, Pease AFB, NH,
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RECIPIENT:	USAF
DATE:	April 1992
TYPE:	Appendices
SECOND REFERENCE:	LF-S
LOCATION:	ARF
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DOG BUENT NED (DED.	REA (25) #7.001.5.2.1
DOCUMENT NUMBER:	PEA (3.5) #7 001-5.2.1
LONG TITLE: AUTHOR:	Installation Restoration Program, Stage 4 Site Characterization Summary, Zone 3, Pease AFB, NH Technical Report Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1992
TYPE:	Report
SECOND REFERENCE:	None
LOCATION:	ARF
Louinon.	#
DOCUMENT NUMBER:	PEA (3.5) #8 001-C
LONG TITLE:	Installation Restoration Program, Stage 4 Site Characterization Summary, Zone 3, Pease AFB, NH Appendices
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1992
TYPE:	Appendices
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #9 001-D
LONG TITLE:	Installation Restoration Program, Stage 4 Site Characterization Summary, IRP Zone 4, Pease AFB, NH Appendices
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1992
TYPE:	Appendices
SECOND REFERENCE:	None
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (3.5) #10 001-R29
LONG TITLE:	Installation Restoration Program, Stage 4 Site Characterization Summary, IRP Zone 4, Pease AFB, NH Technical
	Report
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1992
TYPE:	Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER	PEA (3.5) #11 001-A.3
LONG TITLE:	Installation Restoration Program, Stage 3C, Jet Engine Test Cell - IRP Site 34, Source Area Remedial Investigation
	Pease AFB, NH Technical Report - Draft Final
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	May 1992
TYPE:	Report
SECOND REFERENCE:	Site 34
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (3.5) #12 001-H.40

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# 3.5 Remedial Investigation (RI) Reports

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DOCUMENT NUMBER:	PEA (3.5) #1 001-C8
LONG TITLE:	Installation Restoration Program, Stage 3 Pease AFB. NH, IRP Site 5 Column Leach Study Letter Report
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	14 February 1991
TYPE:	Letter Report
SECOND REFERENCE:	None
LOCATION:	ARF
LUCATION.	
	#
DOCUMENT NUMBER:	PEA (3.5) #2 001-G.4
LONG TITLE:	Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Technical Report -
	Draft Final
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1992
TYPE:	Report
SECOND REFERENCE:	LF-5
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.5) #3 001-6.4.5
LONG TITLE:	Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Figures – Draft Final
AUTHOR:	Roy F. Weston, Inc.
	•
RECIPIENT:	USAF
DATE:	April 1992
TYPE:	Figures
SECOND REFERENCE:	LF-5
LOCATION	
LOCATION:	ARF
LUCATION:	AKF #
LOCATION:	
	*
DOCUMENT NUMBER:	# PEA (3.5) #4 001-F.154
	# PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F –
DOCUMENT NUMBER: LONG TITLE:	# PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F – Draft Final
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	# PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F – Draft Final Roy F. Weston, Inc.
DOCUMENT NUMBER: LONG TITLE:	# PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F – Draft Final
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	# PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F – Draft Final Roy F. Weston, Inc.
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	# PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F – Draft Final Roy F. Weston, Inc. USAF April 1992 Appendices LF-5 ARF
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	<pre># PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F - Draft Final Roy F. Weston, Inc. USAF April 1992 Appendices LF-5 ARF # PEA (3.5) #5 001-M.30</pre>
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	<pre># PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F - Draft Final Roy F. Weston, Inc. USAF April 1992 Appendices LF-5 ARF #</pre>
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	<pre># PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F - Draft Final Roy F. Weston, Inc. USAF April 1992 Appendices LF-5 ARF # PEA (3.5) #5 001-M.30</pre>
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	# PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F – Draft Final Roy F. Weston, Inc. USAF Appendices LF-5 ARF # PEA (3.5) #5 001-M.30 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices G, H, L and M - Draft Final Roy F. Weston, Inc.
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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	# PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F – Draft Final Roy F. Weston, Inc. USAF Appendices LF-5 ARF # PEA (3.5) #5 001-M.30 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices G, H, L and M - Draft Final Roy F. Weston, Inc. USAF April 1992 Appendices LF-5 ARF # PEA (3.5) #5 001-M.30 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices G, H, L and M - Draft Final Roy F. Weston, Inc. USAF April 1992 Appendices LF-5 ARF # PEA (3.5) #6 001-K
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: DATE: TYPE: SECOND REFERENCE: LOATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F – Draft Final Roy F. Weston, Inc. USAF April 1992 Appendices LF-5 ARF # PEA (3.5) #5 001-M.30 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices G, H, L and M – Draft Final Roy F. Weston, Inc. USAF Appendices LF-5 ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: DATE: TYPE: SECOND REFERENCE: LOATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.5) #4 001-F.154 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices A-F – Draft Final Roy F. Weston, Inc. USAF April 1992 Appendices LF-5 ARF # PEA (3.5) #5 001-M.30 Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices G, H, L and M - Draft Final Roy F. Weston, Inc. USAF April 1992 Appendices LF-5 ARF # PEA (3.5) #6 001-K Installation Restoration Program, Stage 3C, Landfill 5 Remedial Investigation, Pease AFB, NH Appendices G, H, L

RECIPIENT:EPA, NHDESDATE:July 1991TYPE:Technical ReportSECOND REFERENCE:NoneLOCATION:ARF

#### NOTE: NEED 2 COPIES FOR ARF

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PEA (3.4) #37 001-DOCUMENT NUMBER: "Installation Restoration Program, Stage 3C, Site Characterization Summary. IRP Site 34 - Appendix" LONG TITLE: AUTHOR: Roy F. Weston, Inc. RECIPIENT: EPA, NHDES DATE: July 1991 TYPE: **Technical** Report SECOND REFERENCE: None LOCATION: ARF NOTE: NEED 2 COPIES FOR ARF

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DOCUMENT NUMBER:	PEA (3.4) #38 001-041
LONG TITLE:	Pease AFB Monitor Well Inventory and Inspection
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	7 August 1992
TYPE:	Report
SECOND REFERENCE:	Nose
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (3.4) #39 001-D
LONG TITLE:	Background Values for Soil, Groundwater, Surface Water and Sediment at Pease Air Force Base
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	26 February 1993
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF

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RECIPIENT:	EPA, NHDES
DATE:	1 October 1990
TYPE:	Letter Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.4) #31 001-007
LONG TITLE:	"Site 8 Follow-on Letter Report"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	9 October 1990
TYPE:	Letter Report
SECOND REFERENCE:	None
LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (3.4) #32 001-338
LONG TITLE:	"Installation Restoration Program, Stage 3, Landfill 5 Site Characterization Summary"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA. NHDES
DATE:	November 1990
TYPE:	Technical Report
SECOND REFERENCE:	None
LOCATION:	ARF
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DOCTOR DE NU DODER.	
DOCUMENT NUMBER:	PEA (3.4) #33 001-068
LONG TITLE:	"Installation Restoration Program, Stage 3 Site 5 Column Leach Study Letter Report"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	February 1991
TYPE:	Letter Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.4) #34 001-062
LONG TITLE:	"Installation Restoration Program, Stage 3, IRP Site 8 Column Leach Study Letter Report"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE	February 1991
TYPE:	Technical Report
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.4) #35 001-279
LONG TITLE:	"Installation Restoration Program, Stage 3C, Site Characterization Summary. IRP Sites 32/36"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	July 1991
TYPE:	Technical Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.4) #36 001-
LONG TITLE:	"Installation Restoration Program, Stage 3C, Site Characterization Summary. IRP Site 34"
AUTHOR:	Roy F. Weston, Inc.

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RECIPIENT:	EPA, NHDES
DATE:	July 1990
TYPE:	Technical Report - Appendices
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	#
DOCUMENT NUMBER:	PEA (3.4) #25 001-007
LONG TITLE:	"Geophysical Survey Letter Report, Stage 3"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	19 October 1989
TYPE:	Letter Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.4) #26 001-006
LONG TITLE:	"Jet Engine Test Cell Letter Report"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	9 January 1990
TYPE:	Letter Report
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.4) #27 001-014
LONG TITLE:	"Recovery Well Selection Letter Report: IRP Site 8"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE: TYPE:	11 May 1990 Letter Report
SECOND REFERENCE:	None
LOCATION:	ARF
Journon.	*
DOCUMENT NUMBER:	PEA (3.4) #28 001-005
LONG TITLE:	"Geophysical Letter Report for the IRP Stage 3B, Areas of Concern 34 and 32/36"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	17 August 1990
TYPE:	Letter Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.4) #29 001-011
LONG TITLE:	"Recovery Well Letter Report for Site 32/36"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	14 September 1990
TYPE:	Letter Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
	DE A (2.4) 420 001 017
DOCUMENT NUMBER:	PEA (3.4) #30 001-017
LONG TITLE:	"Recovery Well Selection Letter Report: IRP Site 34"
AUTHOR:	Roy F. Weston, Inc.

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RECIPIENT:	EPA. NHDES
DATE: TYPE:	July 1990
SECOND REFERENCE:	Technical Report
LOCATION:	ARF, IR
LOCATION	AKF, IK #
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DOCUMENT NUMBER: LONG TITLE:	PEA (3.4) #19 001-621 "Installation Restoration Program, Stage 2, Draft Final Report, Appendices, Volume I"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	July 1990
TYPE:	Technical Report - Appendices
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	#
DOCTRENT NUMBER.	
DOCUMENT NUMBER: LONG TITLE:	PEA (3.4) #20 001-420 "Installation Restoration Program, Stage 2, Draft Final Report, Appendices, Volume II"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	
TYPE:	July 1990 Technical Report - Appendices
SECOND REFERENCE:	None
LOCATION:	ARF, IR
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	*
DOCUMENT NUMBER:	PEA (3.4) #21 001-658
LONG TITLE:	"Installation Restoration Program, Stage 2, Draft Final Report, Appendices, Volume III"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	July 1990
TYPE:	Technical Report - Appendices
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	*
DOCUMENT NUMBER:	PEA (3.4) #22 001-688
LONG TITLE:	"Installation Restoration Program, Stage 2, Draft Final Report, Appendices, Volume IV"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	July 1990
TYPE:	Technical Report - Appendices
SECOND REFERENCE:	None ARF, IR
LOCATION:	
	*
DOCUMENT NUMBER:	PEA (3.4) #23 001-261
LONG TITLE:	"Installation Restoration Program, Stage 2, Draft Final Report, Appendices, Volume V"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	July 1990
TYPE:	Technical Report - Appendices
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	*
DOCUMENT NUMBER:	PEA (3.4) #24 001-340
LONG TITLE:	"Installation Restoration Program, Stage 2, Draft Final Report, Appendices, Summary Analytical Tables"
AUTHOR:	Roy F. Weston, Inc.

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RECIPIENT:	EPA, NHDES
DATE:	April 1989
TYPE:	Technical Report - Appendices
SECOND REFERENCE:	None 🕳 🗝
LOCATION:	ARF, IR
	#
DOCUMENT NUMBER:	PEA (3.4) #13 001-770
LONG TITLE:	
AUTHOR:	"Interim Technical Report No. 4 for the Installation Restoration Program, Stage 2, Volume IV - Appendices"
	Roy F. Weston, Inc. EPA, NHDES
RECIPIENT:	
DATE:	April 1989 Trabainel Baranta April 1997
TYPE:	Technical Report - Appendices
SECOND REFERENCE:	None
LOCATION:	ARF, IR #
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DOCUMENT NUMBER:	PEA (3.4) #14 001-1,150
LONG TITLE:	"Interim Technical Report No. 4 for the Installation Restoration Program, Stage 2, Volume V - Appendices"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	April 1989
TYPE:	Technical Report - Appendices
SECOND REFERENCE:	None
LOCATION:	ARF, IR
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DOCUMENT NUMBER:	PEA (3.4) #15 001-729
LONG TITLE:	"Interim Technical Report No. 4 for the Installation Restoration Program, Stage 2, Volume VI - Appendices"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	April 1989
TYPE:	Technical Report - Appendices
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	*
DOCUMENT NUMBER:	PEA (3.4) #16 001-803
LONG TITLE:	"Interim Technical Report No. 4 for the Installation Restoration Program, Stage 2, Volume VII - Appendices"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	April 1989
TYPE:	Technical Report - Appendices
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	*
DOCUMENT NUMBER:	PEA (3.4) #17 001-251
LONG TITLE:	"Installation Restoration Program, Stage 2, Draft Final Report, Volume I"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	July 1990
TYPE:	Technical Report
SECOND REFERENCE:	None
LOCATION:	ARF, IR
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DOCUMENT NUMBER:	PEA (3.4) #18 001-452
LONG TITLE:	"Installation Restoration Program, Stage 2, Draft Final Report, Volume II"
AUTHOR:	Roy F. Weston, Inc.

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DATE:	August 1988	
TYPE:	Technical Report - Appendices (Analytical Results)	
SECOND REFERENCE:	None	
LOCATION:	ARF, IR	
	#	
DOCUMENT NUMBER:	PEA (3.4) #7 001-289	
LONG TITLE:	"Interim Technical Report No. 2 for the Installation Restoration Program, Stage 2, Volume V - Appendices (Field	
	Geological, Geotechnical, and Hydrogeological Data)"	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	EPA, NHDES	
DATE:	August 1988	
TYPE:	Technical Report - Appendices (Field Geological, Geotechnical, and Hydrogeological Data)	
SECOND REFERENCE:	None	
LOCATION:	ARF, IR #	
	-	
DOCUMENT NUMBER:	PEA (3.4) #8 001-106	
LONG TITLE:	"Interim Technical Report No. 3 for the Installation Restoration Program, Stage 2, Volume I"	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT: DATE:	EPA, NHDES February 1989	
TYPE:	Technical Report	
SECOND REFERENCE:	None	
LOCATION:	ARF, IR	
	*	
DOCUMENT NUMBER:	PEA (3.4) #9 001-658	
LONG TITLE:	"Interim Technical Report No. 3 for the Installation Restoration Program, Stage 2, Volume II - Appendices"	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	EPA, NHDES	
DATE:	February 1989	
TYPE:	Technical Report - Appendices	
SECOND REFERENCE:	None	
LOCATION:	ARF, IR	
DOCUMENT NUMBER:	PEA (3.4) #10 001-198	
LONG TITLE:	"Interim Technical Report No. 4 for the Installation Restoration Program, Stage 2, Volume I"	
AUTHOR: RECIPIENT:	Roy F. Weston, Inc. EPA, NHDES	
DATE:	April 1989	
TYPE:	Technical Report	
SECOND REFERENCE:	None	
LOCATION:	ARF, IR	
*		
DOCUMENT NUMBER:	PEA (3.4) #11 001-770	
LONG TITLE:	"Interim Technical Report No. 4 for the Installation Restoration Program, Stage 2, Volume II - Appendices"	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	EPA, NHDES	
DATE:	April 1989	
TYPE:	Technical Report - Appendices	
SECOND REFERENCE:	None ADE ID	
LOCATION:	ARF, IR	
DOCUMENT NUMBER:	PEA (3.4) #12 001-568	
LONG TITLE:	"Interim Technical Report No. 4 for the Installation Restoration Program, Stage 2, Volume III - Appendices"	
AUTHOR:	Roy F. Weston, Inc.	

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#### 3.4 Preliminary RI Field Work Reports

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DOCUMENT NUMBER:	PEA (3.4) #1 001-173		
LONG TITLE:	"Interim Technical Report No. 1 for the Installation Restoration Program, Stage 2, Volume 1"		
AUTHOR:	Roy F. Weston, Inc.		
RECIPIENT:	EPA, NHDES		
DATE:	February 1988		
TYPE:	Technical Report		
SECOND REFERENCE:	None		
LOCATION:	ARF, IR		
DOCUMENT NUMBER:	PEA (3.4) #2 001-147		
LONG TITLE:	"Interim Technical Report No. 1 for the Installation Restoration Program, Stage 2, Volume II - Appendices"		
AUTHOR:	Roy F. Weston, Inc.		
RECIPIENT:	EPA, NHDES		
DATE: TYPE: SECOND REFERENCE: LOCATION:	January 1988 Technical Report - Appendices None ARF, IR #		
DOCUMENT NUMBER:	PEA (3.4) #3 001-214		
LONG TITLE:	"Interim Technical Report No. 2 for the Installation Restoration Program, Stage 2, Volume I"		
AUTHOR:	Roy F. Weston, Inc.		
RECIPIENT:	EPA, NHDES		
DATE:	August 1988		
TYPE:	Technical Report		
SECOND REFERENCE:	None		
LOCATION:	ARF, IR		
DOCUMENT NUMBER:	PEA (3.4) #4 001-696		
LONG TITLE:	"Interim Technical Report No. 2 for the Installation Restoration Program, Stage 2, Volume II - Appendices (Sample Tracking Information, Analytical Results)" Por F. Weston, Inc.		
AUTHOR:	Roy F. Weston, Inc.		
RECIPIENT:	EPA, NHDES		
DATE:	August 1988		
TYPE:	Technical Report - Appendices (Sample Tracking Information, Analytical Results)		
SECOND REFERENCE:	None		
LOCATION:	ARF, IR		
	#		
DOCUMENT NUMBER: LONG TITLE:	PEA (3.4) #5 001-838 "Interim Technical Report No. 2 for the Installation Restoration Program, Stage 2, Volume III - Appendices (Analytical Results)"		
AUTHOR:	Roy F. Weston, Inc.		
RECIPIENT:	EPA, NHDES		
DATE:	August 1988		
TYPE:	Technical Report - Appendices (Analytical Results)		
SECOND REFERENCE:	None		
LOCATION:	ARF, IR		
	#		
DOCUMENT NUMBER: LONG TITLE:	PEA (3.4) #6 001-722 "Interim Technical Report No. 2 for the Installation Restoration Program, Stage 2, Volume IV - Appendices (Analytical Results)"		
AUTHOR.	Roy F. Weston, Inc.		
RECIPIENT:	EPA, NHDES		

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	Task Manager
	Roy F. Weston, Inc.
RECIPIENT:	Arthur Ditto, RPM
	U.S. Air Force/Pease AFB
DATE:	2 October 1992
TYPE:	Letter
SECOND REFERENCE:	Groundwater Modeling
LOCATION:	ARF, IR
	*
DOCUMENT NUMBER:	PEA (3.3) #13 001-C.31
LONG TITLE:	Installation Restoration Program, Stage 5 Health and Safety Plan, Pease AFB, NH – Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	October 1992
TYPE:	Health and Safety Plan
SECOND REFERENCE:	Groundwater Modeling
LOCATION:	ARF. IR
	#
DOCUMENT NUMBER:	PEA (3.3) #14 001-036
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Landfill 5 Remedial Design Work Plan DRAFT
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	April 1993
TYPE:	Work Plan
SECOND REFERENCE:	LF-5
LOCATION:	ARF, IR
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LOCATION:	ARF, IR
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DOCUMENT NUMBER:	PEA (3.3) #7 001-G5
LONG TITLE: AUTHOR:	Installation Restoration Program, Stage 4 Work Plan Addendum Number 2 for Pease AFB, NH – Draft Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	March 1992
TYPE:	Addendum
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	*
DOCUMENT NUMBER:	PEA (3.3) #8 001-B4
LONG TTILE:	Installation Restoration Program. Stage 3C, Operations Plan for Pease AFB, NH - Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT: DATE:	USAF May 1991
TYPE:	Plan
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	4
DOCUMENT NUMBER	PEA (3.3) #9 001-3.5
LONG TITLE:	Installation Restoration Program, Stage 4, Work Plan Addendum 3, Pease AFB, NH
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE: TYPE:	June 1992 Addendum
SECOND REFERENCE:	None
LOCATION:	ARF, IR
	*
DOCUMENT NUMBER:	PEA (3.3) #10 iii-R2
DOCUMENT NUMBER: LONG TITLE:	
LONG TITLE: AUTHOR:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc.
LONG TITLE: AUTHOR: RECIPIENT:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF
LONG TITLE: AUTHOR: RECIPIENT: DATE:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum
LONG TITLE: AUTHOR: RECIPIENT: DATE:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR # PEA (3.3) #11 001-003
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR # PEA (3.3) #11 001-003 Conversion of Well 06-608 to a Fractured Bedrock Monitor Well Lee dePersia Task Manager
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR PEA (3.3) #11 001-003 Conversion of Well 06-608 to a Fractured Bedrock Monitor Well Lee dePersia Task Manager Roy F. Weston, Inc.
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR PEA (3.3) #11 001-003 Conversion of Well 06-608 to a Fractured Bedrock Monitor Well Lee dePersia Task Manager Roy F. Weston, Inc. Arthur Ditto, RPM
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR PEA (3.3) #11 001-003 Conversion of Well 06-608 to a Fractured Bedrock Monitor Well Lee dePersia Task Manager Roy F. Weston, Inc. Arthur Ditto, RPM U.S. Air Force/Pease AFB
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR PEA (3.3) #11 001-003 Conversion of Well 06-608 to a Fractured Bedrock Monitor Well Lee dePersia Task Manager Roy F. Weston, Inc. Arthur Ditto, RPM
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR PEA (3.3) #11 001-003 Conversion of Well 06-608 to a Fractured Bedrock Monitor Well Lee dePersia Task Manager Roy F. Weston, Inc. Arthur Ditto, RPM U.S. Air Force/Pease AFB 8 September 1992
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR PEA (3.3) #11 001-003 Conversion of Well 06-608 to a Fractured Bedrock Monitor Well Lee dePersia Task Manager Roy F. Weston, Inc. Arthur Ditto, RPM US. Air Force/Pease AFB 8 September 1992 Letter and Diagram LF-6 and Well 06-608
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR PEA (3.3) #11 001-003 Conversion of Well 06-608 to a Fractured Bedrock Monitor Well Lee dePersia Task Manager Roy F. Weston, Inc. Arthur Ditto, RPM U.S. Air Force/Pease AFB 8 September 1992 Letter and Diagram LF-6 and Well 06-608
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR PEA (3.3) #11 001-003 Conversion of Well 06-608 to a Fractured Bedrock Monitor Well Lee dePersia Task Manager Roy F. Weston, Inc. Arthur Ditto, RPM US. Air Force/Pease AFB 8 September 1992 Letter and Diagram LF-6 and Well 06-608
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR PEA (3.3) #11 001-003 Conversion of Well 06-608 to a Fractured Bedrock Monitor Well Lee dePersia Task Manager Roy F. Weston, Inc. Arthur Ditto, RPM U.S. Air Force/Pease AFB 8 September 1992 Letter and Diagram LF-6 and Well 06-608 ARF, IR
LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: DATE: TYPE: SECOND REFERENCE: LOATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.3) #10 iii-R2 Stage 4 Health and Safety Plan Addendum - Section 9 Paint Can Disposal Area Test Pit and Drum Handling Procedures Roy F. Weston, Inc. USAF 22 June 1992 Addendum None ARF, IR PEA (3.3) #11 001-003 Conversion of Well 06-608 to a Fractured Bedrock Monitor Well Lee dePersia Task Manager Roy F. Weston, Inc. Arthur Dito, RPM US. Air Force/Pease AFB 8 September 1992 Letter and Diagram LF-6 and Well 06-608 ARF, IR

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### 3.3 Work Plan

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DOCUMENT NUMBER:	PEA (3.3) #1 001-144
LONG TITLE:	"Work Plan for the Installation Restoration Program, Stage 3"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	August 1989
TYPE:	Work Plan
SECOND REFERENCE:	None
LOCATION:	ARF
Location	#
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DOCUMENT NUMBER:	PEA (3.3) #2 001-019
LONG TTTLE:	"Installation Restoration Program, Stage 3C, Treatability Study Work Plan: IRP Sites 8 and 34"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	May 1991
TYPE:	Work Plan
SECOND REFERENCE	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.3) #3 001-028
LONG TITLE:	"Installation Restoration Program, Stage 3C, Action Plan"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	May 1991
TYPE:	Operations Plan
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.3) #4 001-258
LONG TITLE	"Installation Restoration Program, Stage 4 Work Plan"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	January 1991
TYPE:	Work Plan
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.3) #5 001-213
LONG TITLE:	"Work Plan for the Integrated Installation Restoration Program, Stage 2, Labelled Stage 2 Work Plan"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	September 1987
TYPE:	Work Plan
SECOND REFERENCE:	None
LOCATION:	ARF, IR
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DOCUMENT NUMBER:	PEA (3.3) #6 001-GL2
LONG TITLE:	Installation Restoration Program, Stage 4 Work Plan Addendum 1, Pease AFB, NH - Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	September 1991
TYPE:	Addendum
SECOND REFERENCE:	None

3.3 Work Plan

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LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (3.2) #16 001-009
LONG TITLE:	Thomas Drinking Water Well Sample Analytical Result
AUTHOR:	Kenneth W. Teague, President
	Analytics Environmental Laboratory, Inc.
	Through U.S. Air Force/Arthur Ditto
RECIPIENT:	Evelyn Thomas
	509 Newington Road
	Newington, NH 03801
DATE:	23 November 1992
TYPE:	Transmittal Letters with Attachments (Tables, Questionnaire and Map)
SECOND REFERENCE:	Artesian Well
	at 509 Newington Rd.
LOCATION:	ARF
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DOCUMENT NUMBER: PEA (3.2) #12 001-052 LONG TTTLE: Maximum Detected Concentrations for Unfiltered Groundwater at Pease AFB, NH AUTHOR: Lee dePersia Task Manager Roy F. Weston, Inc. RECIPIENT: Arthur Ditto, RPM U.S. Air Force/Pease AFB DATE: 25 August 1992 TYPE: Letter with Attachments (Tables and Graphs) SECOND REFERENCE: Characterization of Inorganic Background Levels for Groundwater at Pease AFB LOCATION: ARF PEA (3.2) #13 001-007 DOCUMENT NUMBER: LONG TITLE: Haven Well Pumping Test Data AUTHOR: Jim Spratt Project Geologist Roy F. Weston, Inc. **RECIPIENT:** Mark McKenzie ----U.S. Air Force/Pease AFB DATE: 16 September 1992 TYPE: Letter with Tables SECOND REFERENCE: Haven Well (597) LOCATION: ARF DOCUMENT NUMBER: PEA (3.2) #14 001-009 LONG TITLE: Newington Water Quality Sampling on July 18, 1992 and Analysis Performed on August 28, 1992 (NHDES Sample #210239-210241) AUTHOR: Scott Doane Hydrogeologist NHDES **RECIPIENT:** Wayne Wood 428 Newington Road Newington, NH 03803 DATE: 21 September 1992 TYPE: Letter with Chain of Custody and Tables Bedrock Well Serving SECOND REFERENCE: 428 Newington Road Tax Map 51, Lot 09 LOCATION: ARF DOCUMENT NUMBER: PEA (3.2) #15 001-009 LONG TITLE: Tissue Sample Letter Report for Great Bay, Bass Pond and McIntyre Brook AUTHOR: Lee R. dePersia Task Manager Rov F. Weston, Inc. Through U.S. Air Force RECIPIENT: Johanna Hunter, RPM U.S. EPA, Region 1 and Richard Pease, RPM NHDES DATE: 9 October 1992 TYPE: Routing Letters and Letter Report with Map and Table SECOND REFERENCE: Great Bay, Bass Pond McIntyre Brook

3.2 Sampling and Analysis Data / Chain of Custody Forms - RI

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LOCATION:	ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.2) #7 001-D1 Background Soluble Metals Concentrations for Groundwater at Pease AFB Roy F. Weston, Inc. USAF 20 November 1991 Letter Report PEA (3.6) ARF
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.2) #8 001-E.1 Tolerance Limits for Background Soils at Pease AFB, NH Roy F. Weston, Inc. USAF 17 April 1992 Letter Report None ARF
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.2) #9 001-014 Continuance of IRP Site 16 Inspection Arthur Ditto, RPM U.S. Air Force/Pease AFB
RECIPIENT: DATE: TYPE: SECOND REFERENCE:	Johanna Hunter, RPM USEPA, Region 1 and Richard Pease, RPM NHDES 30 June 1992 Letter with Diagrams, Tables and Maps Site 16, Building 410
LOCATION:	ARF #
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.2) #10 001-002 Results of Background Surface Water/Sediment Location Walkover Arthur L. Ditto, RPM U.S. Air Force/Pease AFB
RECIPIENT: DATE:	Johanna Hunter, RPM U.S. EPA, Region 1 19 August 1992
TYPE: SECOND REFERENCE: LOCATION:	Letter Knights Brook ARF
DOCUMENT NUMBER: LONG TITLE: AUTHOR:	PEA (3.2) #11 001-004 Haven Weil Test James G. Spratt Roy F. Weston, Inc.
RECIPIENT:	Mark McKenzie U.S. Air Force/Pease AFB
DATE: TYPE: SECOND REFERENCE: LOCATION:	21 August 1992 Letter Haven Well Aquifer ARF

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3.2 Sampling and Analysis Data / Chain of Custody Forms - RI

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### 3.2 Sampling and Analysis Data / Chain of Custody Forms

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DOCUMENT NUMBER:	PEA (3.2) #1 001-027
LONG TITLE:	Volatile Aromatics/Halocarbons by Modified 8010/8020 - Draft Data Sheets
AUTHOR:	Roy F. Roy F. Weston, Inc.
RECIPIENT:	Pease AFB
DATE:	Unknown
TYPE:	Data
SECOND REFERENCE:	None
LOCATION:	ARF
DOCUMENT NUMBER:	PEA (3.2) #2 001-018
LONG TITLE:	Volatile Aromatics/Halocarbons by Modified 8010/8020
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	Pease AFB
DATE:	Unknown
TYPE:	Data
SECOND REFERENCE:	None
LOCATION:	ARF
DOCUMENT NUMBER:	PEA (3.2) #3 001-009
LONG TITLE:	CLP Volatile Organic Analysis, Case No. 15175, SDG No. AX086, 8 Water Analytical Results
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	Pease AFB
DATE:	Unknown
TYPE:	Data
SECOND REFERENCE:	None
LOCATION:	ARF
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (3.2) #4 001-037 Pease AFB GWTP Summary Tables Roy F. Weston, Inc. USAF Unknown Data None ARF #
DOCUMENT NUMBER:	PEA (3.2) #5 001-013
LONG TITLE:	Split Sampling Results Site 8 and Site 34
AUTHOR:	Richard Pease, NHDES
RECIPIENT:	Art Ditto, Pease AFB
DATE:	29 October 1990
TYPE:	Data
SECOND REFERENCE:	Site 8; Site 34
LOCATION:	ARF
DOCUMENT NUMBER:	PEA (3.2) #6 001-013
LONG TITLE:	Preliminary Survey of Metal Concentrations in New Hampshire Soils - Final Report
AUTHOR:	New Hampshire Division of Public Health Services, Bureau of Health Risk Assessment
RECIPIENT:	USAF
DATE:	May 1991
TYPE:	Data
SECOND REFERENCE:	None

3.2 Sampling and Analysis Data / Chain of Custody Forms - RI

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DATE: TYPE: SECOND REFERENCE: LOCATION: 06 January 1993 Letter Report Zone 1; Site 13 ARF

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DATE: 23 October 1992 TYPE Letter SECOND REFERENCE: Samples for SW8330 Analysis LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #16 001-003 LONG TTILE: Recommendations to Characterize Overburden Groundwater Quality and Flow Direction near Site 8 (Zone 5) AUTHOR: Jennifer D. Toney, P.G. Zone Manager Roy F. Weston, Inc. **RECIPIENT:** Arthur Ditto U.S. Air Force/Pease AFB DATE: 5 November 1992 TYPE: Letter with Map SECOND REFERENCE: Site 8, Zone 5 LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #17 001-005 LONG TITLE: Ethylene Dibromide (EDB) Analysis using Modified Method E504.1 AUTHOR: Edward S. Barnes, P.E., C.I.H. Project Director Roy F. Weston, Inc. **RECIPIENT:** Capt Carl Woerhie U.S. Air Force/Base Closure Division Air Force Center for Environmental Excellence DATE: 19 November 1992 TYPE: Letter with 4 Page Attachment SECOND REFERENCE: Analytical Method Recommended for EDB Analysis LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #18 001-007 LONG TITLE: Objectives of Site 10 Aquifer Test (well 10-6048) AUTHOR: James J. Soukup Senior Hydrogeologist Roy F. Weston, Inc. **RECIPIENT:** Mark McKenzie U.S. Air Force/Pease AFB DATE: 30 November 1992 TYPE: Letter with Tables and Maps Site 10. Well 10-6048, Zone 2 Leaded Fuel Tank Sludge Disposal Area. SECOND REFERENCE: LOCATION: ARF \$ DOCUMENT NUMBER: PEA (3.1) #19 2.24-R.1 LONG TTTLE: Stage 4 Sampling and Analysis Plan, Addendum #3, QAPP Portion AUTHOR: Roy F. Weston, Inc. USAF RECIPIENT: 2 December 1992 DATE: Addendum TYPE: SECOND REFERENCE: None LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #20 001-007 LONG TITLE: Letter Report - Proposed Aquifer Test of Well 6104 AUTHOR: James Soukup, George Swedberg, Roy F. Weston, Inc. RECIPIENT: Mark McKenzie, Pease AFB

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^{3.1} Sampling and Analysis Plan (SAP) - RI

SECOND REFERENCE: Zone 3 LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #11 001-R1 LONG TITLE: Installation Restoration Program, Stage 4 Sampling and Analysis Plan Addendum 3, Pease AFB, NH - Draft AUTHOR: Roy F. Weston, Inc. RECIPIENT: USAF DATE: October 1992 TYPE: Addendum SECOND REFERENCE: None ARF LOCATION: DOCUMENT NUMBER: PEA (3.1) #12 001-005 LONG TITLE: Site 72 Aquifer Test Proposed for Bedrock Well 72-6057 AUTHOR: Robert J. Casper Project Geologist Roy F. Weston, Inc. **RECIPIENT:** Mark McKenzie U.S. Air Force/Pease AFB DATE: 1 October 1992 TYPE: Letter with Table and Map SECOND REFERENCE: Site 72, Zone 3 LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #13 001-004 LONG TITLE: Site 31 Aquifer Test Plan for Lower Sand Well 31-518 AUTHOR: James G. Spratt Project Geologist Roy F. Weston, Inc. **RECIPIENT:** Mark McKenzie U.S. Air Force/Pease AFB DATE: 1 October 1992 TYPE: Letter with Table and Map SECOND REFERENCE: Site 31, Zone 3 LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #14 001-005 LONG TITLE: Site 39 Aquifer Test Plan for Lower Sand Well 39-5101 AUTHOR: Robert J. Casper **Project Geologist** Roy F. Weston, Inc. RECIPIENT: Mark McKenzie U.S. Air Force/Pease AFB DATE: 15 October 1992 TYPE: Letter with Table and Map SECOND REFERENCE: Well 39-5101/Lower Sand Unit at Site 39 LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #15 001-001 Analysis Using SW846 Method 8330 for Explosives LONG TITLE: AUTHOR: Edward S. Barnes, P.E., C.I. H. Roy F. Weston, Inc. RECIPIENT: Capt. Carl Woerhie U.S. Air Force/Base Closure Division Air Force Base Center for Environmental Excellence

Roy F. Weston, Inc. RECIPIENT: Arthur Ditto U.S. Air Force/Pease AFB DATE: 22 January 1991 TYPE: Letter with Tables and Map SECOND REFERENCE: Site 32/36, Wells 6013 and 6014 LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #7 001-003 Locations of Background Sampling Locations LONG TITLE: AUTHOR: Arthur L. Ditto RPM, U.S. Air Force/Pease AFB RECIPIENT: Johanna Hunter, RPM USEPA, Region 1 and Richard Pease, RPM NHDES DATE: 15 June 1992 TYPE: Letter and Map SECOND REFERENCE: Stage 3C Background Data Base LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #8 001-004 LONG TITLE: Aquifer Testing Proposed for Site 8 (Bedrock Well 08-622) AUTHOR: Robert J. Casper **Project Geologist** Roy F. Weston, Inc. **RECIPIENT:** Mark McKenzie U.S. Air Force/Pease AFB 28 August 1992 DATE: TYPE: Letter with Table and Map SECOND REFERENCE: Site 8, Bedrock Well 08-622, Zone 5 LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #9 001-001 LONG TITLE: Horizontal Drilling Technique (Video) AUTHOR: Lee R. dePersia Task Manager Roy F. Weston, Inc. **RECIPIENT:** Arthur Ditto RPM, U.S. Air Force Pease AFB DATE: 28 September 1992 TYPE: Letter SECOND REFERENCE: "Horizontal Wellbore System" LOCATION: ARF DOCUMENT NUMBER: PEA (3.1) #10 001-003 LONG TITLE: Zone 3 Pumping Tests AUTHOR: Robert J. Casper Project Geologist Roy F. Weston, Inc. RECIPIENT: Mark McKenzie U.S. Air Force/Pease AFB DATE: 28 September 1992 TYPE: Letter and Table

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^{3.1} Sampling and Analysis Plan (SAP) - RI

## 3.1 Sampling and Analysis Plan (SAP)

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DOCUMENT NUMBER:	PEA (3.1) #1 001-210
LONG TITLE:	Quality Assurance Project Plan, Integrated Installation Restoration Program, Stage 2, to Support the Preliminary
	Remedial Investigation Field Work, Labelled Stage 2 Field Work*
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA; NHDES; HQ SAC/DEPV, Offutt AFB, NE
DATE:	November 1987
TYPE: SECOND REFERENCE:	Quality Assurance Project Plan None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.1) #2 001-212
LONG TTILE:	"Quality Assurance Project Plan, Integrated Installation Restoration Program, Stage 3"
AUTHOR: RECIPIENT:	Roy F. Weston, Inc. EPA, NHDES
DATE:	August 1989
TYPE:	Quality Assurance Project Plan
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER: LONG TITLE:	PEA (3.1) #3 001-286 "Installation Restoration Program, Stage 4 Sampling and Analysis Plan"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	January 1991
TYPE:	Sampling and Analysis Plan
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (3.1) #4 001-045
LONG TITLE:	"IRP Health Assessment Sampling and Analysis Plan (Buildings 244, 229, and 226)"
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	EPA, NHDES
DATE:	April 1991
TYPE:	Sampling and Analysis Plan
SECOND REFERENCE:	None
LOCATION:	ARF #
	-
DOCUMENT NUMBER:	PEA (3.1) #5 001-006
LONG TITLE:	Site 39 Aquifer Test Procedure Plan for Bedrock Well 39-6080
AUTHOR:	Robert J. Casper
	Project Geologist
DECTRIENT.	Roy F. Weston, Inc. Mark McKenzie
RECIPIENT:	U.S. Air Force/Pease AFB
DATE:	15 October 1992
TYPE:	Letter with Table and Map
SECOND REFERENCE:	Bedrock Well 39-6080 in Zone 3
LOCATION:	ARF
*	
DOCUMENT NUMBER:	PEA (3.1) #6 001-005
LONG TITLE:	Pumping Tests at Site 32/36
AUTHOR:	Amy E. Bruckner, P.G.
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TYPE: SECOND REFERENCE: LOCATION:

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Letter with Maps Site 8, FDTA - 2 ARF 1

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LONG TITLE:IRP Site 34, Groundwater Treatment PlantAUTHOR:USAFRECIPIENT:Johanna Hunter, USEPADATE:13 August 1992TYPE:LetterSECOND REFERENCE:PEA (2.7); Site 34LOCATION:ARF

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DOCUMENT NUMBER:	PEA (2.8) #19 001-008
LONG TITLE:	Proposal to Upgrade IRP Site 8 Pilot Groundwater Recovery and Recharge Systems
AUTHOR:	Fred Symmes
	Assistant Project Engineer
	Roy F. Weston, Inc.
RECIPIENT:	Mark McKenzie

DATE: TYPE: SECOND REFERENCE: LOCATION: Assistant Project Engineer Roy F. Weston, Inc. Mark McKenzie U.S. Air Force/Pease AFB 14 September 1992 Letter with Maps Site 8, Pilot Groundwater Recovery and Recharge Systems ARF

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DOCUMENT NUMBER:	PEA (2.8) #20 001-001
LONG TITLE:	Pease AFB Site 32/36 Groundwater Treatment Plant Informal Technical Information Report
AUTHOR:	Weston
RECIPIENT:	USAF
DATE:	14 October 1992
TYPE:	Letter
SECOND REFERENCE:	PEA (2.7); Site 32/36
LOCATION:	ARF

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DOCUMENT NUMBER:	PEA (2.8) #21 001-001
LONG TITLE:	Pease AFB Site 34 GWTP Informal Technical Report Advance Copy
AUTHOR:	Weston
RECIPIENT:	USAF
DATE:	19 October 1992
TYPE:	Letter
SECOND REFERENCE	PEA (2.7); Site 34
LOCATION:	ARF
	-

DOCUMENT NUMBER: PEA (2.8) #22 001-007 Notification of Treatment of Extraction Water from Building 227 LONG TITLE: AUTHOR: USAF **RECIPIENT:** NHDES, Water Supply and Pollution Control Division 26 November 1991 DATE: TYPE: Letter SECOND REFERENCE: None LOCATION: ARF

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DOCUMENT NUMBER:	PEA (2.8) #23 001-004
LONG TITLE:	Site 8 Groundwater Remediation System Update
AUTHOR:	Lee dePersia
	Task Manager
	Roy F. Weston, Inc.
RECIPIENT:	Arthur Ditto, RPM
	U.S. Air Force/Pease AFB
DATE:	2 December 1992

2.8 Correspondence - Removal Responses

DATE	20 August 1000
DATE:	20 August 1990
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF _ ~
	*
DOCUMENT NUMBER:	PEA (2.8) #13 001-041
LONG TTTLE:	"New Hampshire wetlands permit for National Priorities List (NPL) related work site 32/36"
AUTHOR:	Air Force
RECIPIENT:	State of New Hampshire
DATE:	22 August 1990
TYPE:	Permit
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (2.8) #14 001-002
LONG TITLE:	"Request for additional information regarding pilot groundwater treatment systems for areas of concern 32/36 and 34"
AUTHOR:	State of New Hampshire, Department of Environmental Services
RECIPIENT:	Air Force
DATE:	11 January 1991
TYPE:	Request for Information
SECOND REFERENCE:	None
LOCATION:	ARF
	#
DOCUMENT NUMBER:	DEA (2 0) #15 001 001
LONG THEE:	PEA (2.8) #15 001-001
	"Letter to New Hampshire Department of Environmental Services regarding pilot groundwater treatment system for IRP Sites 32/36 and Site 34"
AUTHOR:	Department of the Air Force
RECIPIENT:	New Hampshire Department of Environmental Services
DATE:	24 January 1991
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (2.8) #16 001-005
LONG TTILE:	"Letter Regarding Notification of Intent to Discharge Effluent From Two Pilot Groundwater Treatment Systems"
AUTHOR:	U.S.Department of the Air Force
RECIPIENT:	New Hampshire Department of Environmental Services
	US EPA
DATE:	10 December 1990
TYPE:	Letter
SECOND REFERENCE:	None
LOCATION:	ARF
*	
DOCUMENT NUMBER:	PEA (2.8) #17 001-002
LONG TITLE:	"Letter to U.S. EPA regarding pilot groundwater treatment systems for IRP Sites 32/36 and Site 34"
AUTHOR:	U.S.Department of the Air Force
RECIPIENT:	US EPA
DATE:	24 January 1991
TYPE:	Letter
SECOND REFERENCE	None
LOCATION:	ARF
*	
DOCUMENT NUMBER:	PEA (2.8) #18 001-001

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LOCATION:	ARF	
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DOCUMENT NUMBER:	PEA (2.8) #7 001-004	
LONG TITLE:	"Corrected Tables for 5 November 1990 letter, "Anticipated Effluent Quality-from Groundwater Treatment Plants at Sites 32/36 and 34."	
AUTHOR:	Roy F. Weston, Inc.	
RECIPIENT:	Air Force	
DATE:	3 December 1990	
TYPE:	Letter	
SECOND REFERENCE:	Site 32/36	
LOCATION:	ARF #	
DOCUMENT NUMBER:	PEA (2.8) #8 001-004	
LONG TITLE:	"Letter Regarding the Approval of Pease Air Force Base Groundwater Permit No. 8908-25P for the Fire Department	
AUTHOR:	Training Area" State of New Hampshire. Department of Environmental Services	
RECIPIENT:	Air Force	
DATE:	11 September 1989	
TYPE	Letter	
SECOND REFERENCE:	None	
LOCATION:	ARF	
	#	
DOCUMENT NUMBER:	PEA (2.8) #9 001-002	
LONG TTTLE:	"Letter Regarding Review of a Supplemental Proposal to Air Strip Contaminated Groundwater"	
AUTHOR:	State of New Hampshire, Department of Environmental Services	
RECIPIENT: DATE:	Air Force 13 September 1989	
TYPE:	Letter	
SECOND REFERENCE:	None	
LOCATION:	ARF	
	*	
DOCUMENT NUMBER:	PEA (2.8) #10 001-003	
LONG TITLE:	"Letter Regarding Revision of Pease Air Force Base Groundwater Permit No. 8908-25P of the Former Fire	
	Department Training Area No. 2, Site 8"	
AUTHOR:	U.S. Air Force	
RECIPIENT:	State of New Hampshire	
DATE: TYPE:	18 April 1990 Letter	
SECOND REFERENCE:	None	
LOCATION:	ARF	
	*	
DOCUMENT NUMBER:	PEA (2.8) #11 001-001	
LONG TITLE:	"Letter Regarding Groundwater Discharge Permit No. 8908-25P"	
AUTHOR:	State of New Hampshire, Department of Environmental Services	
RECIPIENT:	Air Force	
DATE:	5 July 1990	
TYPE:	Letter None	
SECOND REFERENCE: LOCATION:	ARF	
	*	
DOCUMENT NUMBER:	PEA (2.8) #12 001-002 "Letter to the New Hampshire Department of Environmental Services Regarding Amendments to Groundwater	
LONG TITLE:	"Letter to the New Hampsone Department of Environmental Services Regarding Amendments to Groundwater Treatment System air emissions"	
AUTHOR:	Air Force	
RECIPIENT:	NHDES	

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2.8 Correspondence - Removal Responses

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#### 2.8 Correspondence

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DOCUMENT NUMBER:	PEA (2.8) #1 001-002				
LONG TITLE:	"Tank Removal at Building 244"				
AUTHOR:	Roy F. Weston, Inc.				
RECIPIENT:	Air Force				
DATE:					
TYPE:	8 March 1989 Letter				
SECOND REFERENCE:	None				
LOCATION:	ARF				
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DOCUMENT NUMBER:	PEA (2.8) #2 001-002				
LONG TITLE:	"Review Comments Regarding Site 32/36 Groundwater Remediation Pilot Contract Document and Specifications"				
AUTHOR:	State of New Hampshire, Department of Environmental Services				
RECIPIENT:	Air Force				
DATE:	25 September 1990				
TYPE:	Lener				
SECOND REFERENCE:	None				
LOCATION:	ARF				
	•				
	·				
DOCUMENT NUMBER:	PEA (2.8) #3 001-001				
LONG TITLE:					
	"Letter Regarding Fire Training Area No. 2, Pilot Groundwater Treatment System"				
AUTHOR:	Department of the Air Force				
RECIPIENT:	Air Force				
DATE:	11 October 1990				
TYPE:	Letter				
SECOND REFERENCE:	None				
LOCATION:	ARF				
	*				
DOCUMENT NUMBER:	PEA (2.8) #4 001-003				
LONG TITLE:	"IRP Site 32/36 Recovery Well Update"				
AUTHOR:	Roy F. Weston, Inc.				
	Air Force				
RECIPIENT:					
RECIPIENT: DATE:	1 November 1990				
DATE:	1 November 1990				
DATE: TYPE:	1 November 1990 Letter				
DATE: TYPE: SECOND REFERENCE:	1 November 1990 Letter None				
DATE: TYPE:	1 November 1990 Letter None ARF				
DATE: TYPE: SECOND REFERENCE:	1 November 1990 Letter None				
DATE: TYPE: SECOND REFERENCE: LOCATION:	1 November 1990 Letter None ARF				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	1 November 1990 Letter None ARF # PEA (2.8) #5 001-005				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	1 November 1990 Letter None ARF # PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34*				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR:	1 November 1990 Letter None ARF # PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34* Roy F. Weston, Inc.				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34° Roy F. Weston, Inc. Air Force				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34° Roy F. Weston, Inc. Air Force 5 November 1990				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34° Roy F. Weston, Inc. Air Force				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34° Roy F. Weston, Inc. Air Force 5 November 1990				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34° Roy F. Weston, Inc. Air Force 5 November 1990 Letter				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34° Roy F. Weston, Inc. Air Force 5 November 1990 Letter None				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34* Roy F. Weston, Inc. Air Force S November 1990 Letter None ARF				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34* Roy F. Weston, Inc. Air Force S November 1990 Letter None ARF				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34* Roy F. Weston, Inc. Air Force S November 1990 Letter None ARF				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34° Roy F. Weston, Inc. Air Force 5 November 1990 Letter None ARF #				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE:	1 November 1990 Letter None ARF PEA (2.8) \$5 001-005 "Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34" Roy F. Weston, Inc. Air Force 5 November 1990 Letter None ARF PEA (2.8) \$6 001-001 "Letter Regarding Fire Training Area No. 2, Pilot Groundwater Treatment System"				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34* Roy F. Weston, Inc. Air Force 5 November 1990 Letter None ARF * PEA (2.8) #6 001-001 * * * PEA (2.8) #6 001-001 * Letter Regarding Fire Training Area No. 2, Pilot Groundwater Treatment System* Roy F. Weston, Inc. Air Force				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34* Roy F. Weston, Inc. Air Force 5 November 1990 Letter None ARF # PEA (2.8) #6 001-001 *Letter Regarding Fire Training Area No. 2, Pilot Groundwater Treatment System* Roy F. Weston, Inc. Air Force 12 November 1990				
DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION: DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT:	1 November 1990 Letter None ARF PEA (2.8) #5 001-005 *Letter Regarding Anticipated Effluent Quality from Groundwater Treatment Plants at Sites 32/36 and 34* Roy F. Weston, Inc. Air Force 5 November 1990 Letter None ARF * PEA (2.8) #6 001-001 * * * PEA (2.8) #6 001-001 * Letter Regarding Fire Training Area No. 2, Pilot Groundwater Treatment System* Roy F. Weston, Inc. Air Force				

2.8 Correspondence - Removal Responses

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LOCATION:	ARF
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DOCUMENT NUMBER:	PEA (2.7) #7 001-E
LONG TITLE:	Installation Restoration Program, Stage 4, Letter Report for the Intensive Test Pit Operation at the McIntyre Road
	Drum Disposal Area for Pease AFB, NH - Draft Roy F. Weston, Inc.
AUTHOR: RECIPIENT:	USAF
DATE:	February 1992
TYPE:	Letter Report
SECOND REFERENCE:	PEA (2.8)
LOCATION:	ARF
	*
DOCUMENT NUMBER	PEA (2.7) #8 001-601
LONG TITLE:	Installation Restoration Program, Stage 3B, IRP Site 32/36, Groundwater Treatment Plant, Informal Technical
	Information Report, Pease AFB, NH, Appendix K – Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	October 1992
TYPE:	Report
SECOND REFERENCE:	Site 32/36
LOCATION:	ARF
DOCUMENT NUMBER:	PEA (2.7) #9 001-J.4
LONG TITLE:	Installation Restoration Program, Stage 3B, IRP Site 32/36, Groundwater Treatment Plant, Informal Technical
	Information Report, Pease AFB, NH, Technical Report and Appendices A-J
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	October 1992
TYPE:	Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (2.7) #10 001-D4
LONG TITLE:	Installation Restoration Program, Stage 3B, IRP Site 34, Groundwater Treatment Plant, Informal Technical Report,
	Pease AFB, NH, Appendices A-D – Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	November 1992
TYPE:	Report
SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER	PEA (2.7) #11 001-808
LONG TTTLE:	Installation Restoration Program, Stage 3B, IRP Site 34, Groundwater Treatment Plant, Informal Technical
	Information Report, Pease AFB, NH, Appendices E-G - Draft
AUTHOR:	Roy F. Weston, Inc.
RECIPIENT:	USAF
DATE:	November 1992
TYPE:	Report
SECOND REFERENCE:	None
LOCATION:	ARF
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#### 2.7 Removal Response Reports

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DOCUMENT NUMBER:	PEA (2.7) #1 001-452				
LONG TTTLE:	"Informal Technical Information Report, Drum Removal at Site 5 (LF-5) - Pre-NPL Actions"				
AUTHOR:	Roy F. Weston, Inc.				
RECIPIENT:	EPA, NHDES				
DATE:	December 1990				
TYPE:	Technical Report				
SECOND REFERENCE:	•				
	None				
LOCATION:	ARF				
	# *				
DOCUMENT NUMBER:	PEA (2.7) #2 001-070				
LONG TITLE:	"Informal Technical Information Report, Soil Removal at Site 8 (FDTA-2) – Pre-NPL Actions"				
AUTHOR:	Roy F. Weston, Inc.				
RECIPIENT:	EPA, NHDES				
DATE:	December 1990				
TYPE:	Technical Report				
SECOND REFERENCE:	None				
LOCATION:	ARF				
	#				
DOCUMENT NUMBER:	PEA (2.7) #3 001-142				
LONG TITLE:	"Informal Technical Information Report, Soil Removal at Site 34 (Building 222) – Pre-NPL Actions"				
AUTHOR:	Roy F. Weston, Inc.				
RECIPIENT:	EPA, NHDES				
DATE:	January 1991				
TYPE:	Technical Report				
SECOND REFERENCE:	None				
LOCATION:	ARF				
	*				
DOCUMENT NUMBER:	PEA (2.7) #4 001-244				
LONG TITLE:	"Informal Technical Information Report, Soil Removal at Site 32 (Building 113) - Pre-NPL Actions"				
AUTHOR:	Roy F. Weston, Inc.				
RECIPIENT:	EPA, NHDES				
DATE:	April 1991				
TYPE:	Technical Report				
SECOND REFERENCE:	None				
LOCATION:	ARF				
	*				
	- · · · · · · · · · · · · · · · · · · ·				
DOCUMENT NUMBER:	PEA (2.7) #5 001-900				
LONG TITLE:	Installation Restoration Program, Stage 3A, IRP Site 8 Groundwater Treatment Plant, Pease AFB, NH - Volume II				
AUTHOR:	Roy F. Weston, Inc.				
RECIPIENT:	USAF				
DATE:	November 1991				
TYPE:	Report				
SECOND REFERENCE:	None				
LOCATION:	ARF				
	AN:				
	*				
DOCUMENT NUMBER:	PEA (2.7) #6 001-H.12				
LONG TITLE:	Installation Restoration Program, Stage 3A, IRP Site 8 Groundwater Treatment Plant, Pease AFB, NH - Volume I				
AUTHOR:	Roy F. Weston, Inc.				
RECIPIENT:	USAF				
	November 1991				
DATE: TYPE:					
	Report				
SECOND REFERENCE:	None				

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* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

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* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

#### 2.4 EE/CA (Engineering Evaluation / Cost Analysis)

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#### • NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

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• NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

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2.2 Sampling and Analysis Data / Chain of Custody

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• NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

2.2 Sampling and Analysis Data / Chain of Custody - Removal Responses

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* NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

SECOND REFERENCE:	None
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (1.6) #7 001-001
LONG TITLE:	Submittal of Site 42 Site Inspection Report
AUTHOR:	USAF
RECIPIENT:	Johanna Hunter, USEPA
DATE:	28 July 1992
TYPE:	Letter
SECOND REFERENCE:	Site 42
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (1.6) #8 001-001
LONG TITLE:	Railroad Track SI Letter Report
AUTHOR:	
nomo	USAF
RECIPIENT:	USAF Johanna Hunter, USEPA
	Johanna Hunter, USEPA
RECIPIENT:	Johanna Hunter, USEPA Richard Pease, NHDES
RECIPIENT: DATE:	Johanna Hunter, USEPA Richard Pease, NHDES 30 September 1992
RECIPIENT: DATE: TYPE:	Johanna Hunter, USEPA Richard Pease, NHDES 30 September 1992 Letter

#### 1.6 Correspondence

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DOCUMENT NUMBER:	PEA (1.6) #1 001-002				
LONG TITLE:	"Comments Regarding the Installation Restoration Program, Phase I Record Search Report, Pease Air Force Base"				
AUTHOR:	The State of New Hampshire, Water Supply and Pollution Control Commission				
RECIPIENT:	HQ SAC, Offutt AFB, NE				
DATE:	16 March 1984				
TYPE:	Letter/Comments				
SECOND REFERENCE:	None				
LOCATION:	ARF, IR				
	*				
DOCUMENT NUMBER:	PEA (1.6) #2 001-004				
LONG TITLE:	"Comments Regarding the Installation Restoration Program Report (09/10/86)"				
AUTHOR:	State of New Hampshire, Division of Public Health Services				
RECIPIENT:	NH Division of Public Health Services				
DATE:	24 November 1986				
TYPE:	Comments to SI (1.4)				
SECOND REFERENCE:	None				
LOCATION:	ARF				
	*				
	•				
DOCUMENT NUMBER:	PEA (1.6) #3 001-005				
LONG TITLE:	"Comments Regarding the Phase II, Stage 1 IRP Report (08/86 Draft)"				
AUTHOR:	State of New Hampshire, Department of Environmental Services				
RECIPIENT:	Air Force				
DATE:	3 February 1987				
TYPE:	Comments to SI (1.4)				
SECOND REFERENCE:	None				
LOCATION:	ARF				
Localiton.	#				
	•				
DOCUMENT NUMBER:	PEA (1.6) #4 001-007				
LONG TTILE:	"Air Force Responses to Comments From the New Hampshire Department of Environmental Services on the Phase				
	II, Stage 1 IRP Draft Report"				
AUTHOR:	Department of the Air Force				
RECIPIENT:	NHDES				
DATE:	8 May 1987				
TYPE:					
SECOND REFERENCE:	Responses to Comments to SI (1.4) None				
LOCATION:	ARF				
	* · · · · · · · · · · · · · · · · · · ·				
DOCUMENT NUMBER:	PEA (1.6) #5 001-001				
LONG TITLE:	"Letter Regarding Water Sample Obtained from the Pease AFB Golf Course Spring"				
AUTHOR:	State of New Hampshire, Department of Environmental Services				
RECIPIENT:	Air Force				
DATE:	29 June 1990				
TYPE:	Letter				
SECOND REFERENCE:	None				
LOCATION:	ARF				
	*				
DOCUMENT NUMBER:	PEA (1.5) #5 001 004				
	PEA (1.6) #6 001-004				
LONG TITLE:	"Letter Concerning Site Walkovers made with Members of Sherburne Civic Group"				
AUTHOR:	State of New Hampshire, Department of Environmental Services				
RECIPIENT:	Air Force				
DATE:	18 July 1990				
TYPE:	Letter				

1.6 Correspondence - Site Identification

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#### • NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

AUTHOR:	Weston
RECIPIENT:	USAF
DATE:	24 September 1992
TYPE:	Letter Report
SECOND REFERENCE:	PEA (1.6)
LOCATION:	ARF, IR
	#
DOCUMENT NUMBER:	PEA (1.4) #7 001-Acr.3
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zones 6 and 7 Site Inspection Report Text DRAFT
AUTHOR:	Weston
RECIPIENT:	USAF
DATE:	June 1993
TYPE:	Report
SECOND REFERENCE:	Zones 6 and 7
LOCATION:	ARF
Location.	#
·	<u>n</u>
DOCUMENT NUMBER:	PEA (1.4) #8 001-Plate 2
LONG TITLE:	
AUTHOR:	U.S. Air Force Installation Restoration Program Pease AFB Zones 6 and 7 Site Inspection Report Figures DRAFT Weston
	USAF
RECIPIENT:	
DATE:	June 1993
TYPE:	Figures
SECOND REFERENCE:	Zones 6 and 7
LOCATION:	ARF
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DOCIMENT NUMPER.	
DOCUMENT NUMBER:	PEA (1.4) #9 001-H
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zones 6 and 7 Site Inspection Appendices A, B, C, D,
	E, F, G and H DRAFT
AUTHOR:	Weston
RECIPIENT:	USAF
DATE:	June 1993
TYPE:	Appendices
SECOND REFERENCE:	Zones 6 and 7
LOCATION:	ARF
	#
DOCUMENT NUMBER:	PEA (1.4) #10 001-L.17
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zones 6 and 7 Site Inspection Appendices I and L
	DRAFT
AUTHOR:	Weston
RECIPIENT:	USAF
DATE:	June 1993
TYPE:	Appendices
SECOND REFERENCE:	Zones 6 and 7
LOCATION:	ARF
	*
DOCUMENT NUMBER:	PEA (1.4) #11 001-J
LONG TITLE:	U.S. Air Force Installation Restoration Program Pease AFB Zones 6 and 7 Site Inspection Appendices J and K
	DRAFT
AUTHOR:	Weston
RECIPIENT:	USAF
DATE:	June 1993
TYPE:	Appendices
SECOND REFERENCE:	Zones 6 and 7
LOCATION:	ARF

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## 1.4 Site Investigation (SI) Report

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DOCUMENT NUMBER:	PEA (1.4) #1 001-309				
LONG TITLE:	"Installation Restoration Program, Phase II - Confirmation/Quantification Stage I, Volume I (Final Report for Period				
	October 1984 - July 1986)*				
AUTHOR:	Roy F. Weston, Inc.				
RECIPIENT:	HQ SAC/SGPB, Offutt AFB, NE; EPA; NHDES				
DATE:	August 1986				
TYPE:					
	Technical Report: Field Investigations				
SECOND REFERENCE:	None				
LOCATION:	ARF, IR				
	*				
DOCUMENT NUMBER:	PEA (1.4) #2 001-883				
LONG TTILE:	"Installation Restoration Program, Phase II - Confirmation/Quantification Stage 1, Volume II (Appendices)"				
AUTHOR:	Roy F. Weston, Inc.				
RECIPIENT:	HQ SAC/SGPB, Offutt AFB, NE; EPA; NHDES				
DATE:	August 1987				
TYPE:	Technical Report: Field Investigations				
SECOND REFERENCE:	None				
LOCATION:	ARF, IR				
	*				
DOCUMENT NUMBER:	PEA (1.4) #3 001-308				
LONG TITLE:	"Installation Restoration Program, Stage 3B Preliminary Assessment/Site Inspection"				
AUTHOR:	Roy F. Weston, Inc.				
RECIPIENT:	EPA; NHDES; HQ SAC/DE, Offutt AFB, NE; AFSC HSD/YAQ, Brooks AFB, TX				
DATE:	February 1991				
TYPE:	Technical Report: Also includes review of PA				
	None				
SECOND REFERENCE:					
LOCATION:	ARF, IR				
	*				
DOCUMENT NUMBER:	PEA (1.4) #4 001-088				
LONG TITLE:	Final Portsmouth Refuse to Energy Plant Site Inspection Report for Pease AFB, NH				
AUTHOR:	ICP Kaiser Engineers, Inc.				
AUMOR					
	286 Congress Street, 7th Floor				
	Boston, Massachusetts 02210				
RECIPIENT:	USAF				
DATE:	July 1992				
TYPE:	Report				
SECOND REFERENCE:	None				
LOCATION:	ARF, IR				
	* · · · · · · · · · · · · · · · · · · ·				
DOCUMENT NUMBER:	PEA (1.4) #5 001-D				
LONG TITLE:	Final Portsmouth Refuse to Energy Plant Site Inspection Report Appendices				
AUTHOR:	ICF Kaiser Engineers, Inc.				
	286 Congress Street, 7th Floor				
	Boston, Massachusetts 02210				
RECIPIENT:	USAF				
DATE:	July 1992				
	•				
TYPE:	Appendices				
SECOND REFERENCE:	None				
LOCATION:	ARF				
	#				
DOCUMENT NUMBER:	PEA (1.4) #6 001-B17				
LONG TITLE:	Pease AFB Railroad Tracks (Site 46) Site Investigation Letter Report				

#### 1.3 Preliminary Assessment (PA) Report

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (1.3) #1 001-068 "Phase II Problem Confirmation and Quantification Presurvey Report (Field Sampling for SI Work)" Roy F. Weston, Inc. EPA, NHDES, USAF Occupational and Environmental Health Lab (OEHL), Brooks AFB, TX June 1984 Technical Report None ARF, IR
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (1.3) #2 001-182 "Installation Restoration Program Records Search" CH2M Hill EPA; NHDES; USAF Engineering & Services Center, Tyndall AFB; SAC, Offutt AFB, NE January 1984 Technical Report None ARF, IR
	*
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (1.3) #3 001-041 "Preliminary Assessment - Updated PA Report" Roy F. Weston, Inc. EPA, NHDES 20 July 1990 Letter Report None ARF, IR #
DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:	PEA (1.3) #4 001-L2 Final Preliminary Assessment Report Portsmouth Refuse to Energy Plant ICF Kaiser Engineers, Inc. 286 Congress Street, 7th Floor Boston, Massachusetts 02210 USAF November 1991 Report None ARF, IR
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#### • NOTE: NO ENTRIES IN THIS SECTION AT THIS TIME

DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

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DOCUMENT NUMBER: LONG TITLE: AUTHOR: RECIPIENT: DATE: TYPE: SECOND REFERENCE: LOCATION:

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#### 1.1 Background - RCRA and Other Information

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DOCUMENT NUMBER: PEA (1.1) #1 001-031 LONG TITLE: "Scope of Work for the Remedial Investigation/Feasibility Study" AUTHOR: Pease Air Force Base EPA, NHDES RECIPIENT: DATE: April 1991 TYPE: Scope of Work for RI/FS SECOND REFERENCE: None LOCATION: ARF, IR

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# 11.0 TECHNICAL SOURCES, GUIDANCE, AND PROCEDURES DOCUMENTS

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- 11.1 EPA Headquarters Guidance
- 11.2 EPA Regional Guidance
- 11.3 State Guidance
- 11.4 Air Force Guidance
- 11.5 Technical Sources
- 11.6 Proposed Procedures/Procedures
- 11.7 Correspondence

## **12.0 CONFIDENTIAL FILE**

12.1 Privileged Documents (Extractions)

## 6.0 STATE AND FEDERAL COORDINATION

- 6.1 Cooperative Agreements/SMOAs
- 6.2 Federal Facility Agreement (FFA)
- 6.3 Coordination State/Federal
- 6.4 General Correspondence

## 7.0 ENFORCEMENT

- 7.1 Enforcement History
- 7.2 Endangerment Assessments
- 7.3 Administrative Orders
- 7.4 Consent Decrees
- 7.5 Affidavits
- 7.6 Documentation of Technical Discussions/Response Actions

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7.7 Notice Letters and Responses

## 8.0 HEALTH ASSESSMENTS

- 8.1 ATSDR Health Assessments
- 8.2 Toxicological Profiles
- 8.3 General Correspondence

### 9.0 NATURAL RESOURCE TRUSTEES

- 9.1 Notices Issued
- 9.2 Findings of Fact
- 9.3 Reports
- 9.4 General Correspondence

### **10.0 PUBLIC PARTICIPATION**

- 10.1 Comments and Responses
- 10.2 Community Relations Plan
- 10.3 Public Notice(s) (Availability of the Admin. Record File, Availability of the Proposed Plan, Public Meetings)
- 10.4 Public Meeting Transcripts
- 10.5 Documentation of other Public Meetings
- 10.6 Fact Sheets, Press Advisories, and News Releases
- 10.7 Responsiveness Summary
- 10.8 Late Comments
- 10.9 Technical Review Committee Charter
- 10.10 Correspondence

## ADMINISTRATIVE RECORD FILE STRUCTURE

## 1.0 SITE IDENTIFICATION

- 1.1 Background RCRA and other Information
- 1.2 Notification/Site Inspection Reports
- 1.3 Preliminary Assessment (PA) Report
- 1.4 Site Investigation (SI) Report
- 1.5 Previous Operable Unit Information
- 1.6 Correspondence

### 2.0 REMOVAL RESPONSES

- 2.1 Sampling and Analysis Plans
- 2.2 Sampling and Analysis Data / Chain of Custody
- 2.3 EE/CA Approval Memorandum (Non-Time-Critical Removals)
- 2.4 EE/CA (Engineering Evaluation / Cost Analysis)
- 2.5 Action Memorandum
- 2.6 Amendments to Action Memorandum
- 2.7 Removal Response Reports
- 2.8 Correspondence

### 3.0 REMEDIAL INVESTIGATION (RI)

- 3.1 Sampling and Analysis Plan (SAP)
- 3.2 Sampling and Analysis Data/Chain of Custody Forms
- 3.3 Work Plan
- 3.4 Preliminary RI Field Work Reports
- 3.5 Remedial Investigation (RI) Reports
- 3.6 Correspondence

## 4.0 FEASIBILITY STUDY (FS)

- 4.1 ARAR Determinations
- 4.2 Feasibility Reports
- 4.3 Proposed Plan
- 4.4 Supplements and Revisions to the Proposed Plan
- 4.5 Correspondence

## 5.0 RECORD OF DECISION (ROD)

- 5.1 ROD
- 5.2 Amendments to ROD
- 5.3 Explanations of Significant Differences
- 5.4 Correspondence

## ABOUT THE INDEX NUMBERING SYSTEM

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Document Number - Comprised of a 3 letter site code (PEA), the category number, the entry number and the page range of a document. (Both page numbers will be the same for a one page document.) If documents are eventually placed on a microfiche system, the document number consists of the site code followed by the microfilm reel and frame number.

#### Example: PEA (1.1) #1 001-031

<u>Site Code</u> PEA	(Category #) (1.1)		<u>Entry #</u> #1	Page Range 001-031
Long Title		The long title and brief description of document.		
Author		Indicates author or primary originator of document. If a contractor prepared the document, indicates company and location.		
Recipient	Indicates primary recipient of document.		ment.	
Date		Indicates date document was issued.		
Туре		Indicates document type		
Second Reference		Other categories pertaining to the document.		
Location		Exact location(s) of document.		

#### ABOUT THE ADMINISTRATIVE RECORD FILE

The administrative record file is a collection of documents which form the basis for the selection of a response action at a Superfund site. Under section 113(k) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), the U.S. Air Force is required to establish an administrative record file for every Superfund response action and to make a copy of the administrative record available at or near the site.

The administrative record file must be reasonably available for public review during normal business hours. The record file should be treated as a non-circulating reference document. This will allow the public greater access to the volumes and also minimize the risk of loss or damage. Individuals may photocopy any documents in the non-confidential portion of the file, according to the photocopying procedures at the local repository.

The documents in the administrative record file may become lost or damaged during use. If this occurs, contact the administrative record file manager at Pease AFB. Documents may be added to the administrative record file as site work progresses. This index will be updated as documents are added to the administrative record file.

The administrative record file will be maintained in Building 43 at Pease AFB. Questions and/or comments about the administrative record file should be directed to:

> Arthur L. Ditto, Remedial Project Manager Air Force Base Disposal Agency Operating Location A, Building 43 61 International Drive Pease AFB, NH 03803-0157 (603) 430-2586

Dynamac Corporation assisted in the organization, establishment and on-site setup of the Administrative Record File at Peace Air Force Base.

# ADMINISTRATIVE RECORD FILE INDEX

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FOR THE

# INSTALLATION RESTORATION PROGRAM

PEASE AIR FORCE BASE NEW HAMPSHIRE

AUGUST 1993