Project # A1322-02 NJDOT Headquarters Solar PPA
Bulletin B
Revised 2021-11-3

STATE OF NEW JERSEY DEPARTMENT OF TREASURY
DIVISION OF PROPERTY MANAGEMENT AND
CONSTRUCTION PO BOX 034, TRENTON, NJ 08625-0034

PROJECT#: A1322-02 NJDOT Headquarters Solar PPA

A/E: Gannett Fleming

DATE: 12-17-2021

BULLETIN B

Bidder must acknowledge receipt of this Bulletin on bid form in the space provided therefor.

This Bulletin is issued for the purpose of amending certain requirements of the original Contract Documents, as noted hereinafter, and is hereby made part of and incorporated in full force as part of the Contract Documents. Unless specifically noted or specified hereinafter, all work shall comply with the applicable provisions of the Contract Documents.

A) Attached Meeting Minutes & Sign-in sheet from Mandatory Pre-Bid on Wednesday, December 15, 2021.

B) Attached Photos of the mechanical room where Meter# 9214017 is located in basement of E&O Building.

C) Attached Soil & Well Monitoring Information – Solar Project 2021 – dated 12/13/2021

END OF BULLETIN B

T3104 SOLAR PPA MINI-BID
MANDATORY PRE-BID MINUTES
Date: 12/15/2021@ 10am

Project # A1322-02
NJ Department of Transportation Headquarters – NJDOT HQ Solar PPA

1) Introductions:

a. DPMC & NJDOT Representatives

b. The Project Number is 'A1322-02'. For clarity of how this process has been set up, all DPMC mini-bids for this contract shall have the A1322 designation with each site engagement having its own suffix.

c. Mandatory Pre-Bid Meeting Agenda was handed out to all attendee's.

2) Administrative Items:

- Verify all vendor's representatives have signed in to verify participation in this mandatory pre-bid.

- Nothing said here or during this site visit(s) is a part of the contract unless specifically issued in writing by Bulletin.

- Minutes of this meeting & sign-in sheet will be distributed as part of a future Bulletin along with other info that may be required including answers to Bidders' Questions.

- Bid will be based on price and other factors , short listing the pool by utilizing Exhibit 2 – Bid Evaluation Tool found in the T3104 DPP contract on NJSTART, in addition to the evaluation of the schedule submitted with the bid proposal form.

- All Bidders must be in the Pool#3 - North Region – Some or All Non-US Materials Vendor Price Sheet. All US Materials Mandate is NOT required for DPMC Mini-Bid Engagements.

- **All Bidders must name the Design Consultants they intend to use at the time of the post bid interview. Using a DPMC Pre-Qualified Design Consultant is not a requirement, but is preferred. Links of DPMC pre-qualified consultants (1) and how to become prequalified (2):**

  1. https://www.nj.gov/treasury/dpmc/consult_search.shtml

  2. https://www.nj.gov/treasury/dpmc/consultant_overview.shtml

- **Review Bid Proposal Form:** Do not leave any blanks

  - Escalation fixed term of contract (T3104)

  - Guarantee Table – To be used as Exhibit in PPA

- Post bid vendor will provide breakdown of new total rate.

- **Bids Due: 1/27/2022 *by* 2:00 pm** at 33 West State Street, Trenton

  ……. Unless modified by Bulletin

  i) **If bid is mailed** through the US Postal Service the address is:

  Division of Property Management and Construction
  PO Box 034
  Trenton, NJ 08625-0034

  ii) **If bid is delivered by delivery service** (UPS, FedEx, etc.) the physical address is:

  Division Of property Management and Construction
  33 West State Street, 9th Floor
  Trenton, NJ 08608

  - **Submittal for Bid:**
    - Bid Bond is $10,000.00 and must be provided with bid proposal form by bid due date. Details described in Bulletin A.
    - Bid Proposal Form – do not leave any blanks
    - Project Schedule – Detail described in Bulletin A.

  - **Post Bid Review with Apparent Low bidder:**

    - Bids will be received and logged in by DPMC procurement. Due to the complexity in reviewing the bids, they will NOT be read aloud. DPMC will open and log in the information for the file. Each individual bid submittal will be reviewed by the DPMC Energy Group. Evaluation utilizing the Exhibit 2 tool will take place, in addition to the schedule submittal and the 3 prospective best value Vendors will be called and scheduled for a post bid interview. The interview is expected to be **within 2 weeks** from the bid opening date. Once notified for the interview, the vendor will immediately (within 3 working days of notification) forward the schematic plan with all necessary supporting calculations to support their bid.

- **Additional Questions after today's meeting**

  - ***E-mail - anthony.mazzellajr@treas.nj.gov***

    - **no later than: Thursday, 1/6/2022 by 4:30 pm**

    - **Questions in 'WORD' format preferred**

  - No verbal questions or phone calls to DPMC, client or engineer

- Responses will be made to all via Bulletin(s) and posted on web-site. Notification will be sent to all vendors when bulletin is posted and a response is requested to verify receipt. Note that the bulletin(s) needs to be identified / filled in on your bid proposal form.

- **Non-Mandatory Follow-Up Site Visit – (if requested) –** raise hand, if interested.

  - Vendors who are requesting to see any switchgear / relevant equipment within the interior of the buildings, (not viewed today) need to :

    - ***E-mail - anthony.mazzellajr@treas.nj.gov***

      - **no later than: Thursday, 12/16/2021 by 4:30 pm**

      - **Include in the e-mail - Name of Vendor / Company, Name of representative attending, and exact area / item that needs to be viewed.**

      - **If requested…the Non-Mandatory follow up site visit will occur on Monday, 12/20/21 at 10am.**

(Post Meeting Note – a request was NOT received for a follow up site visit by any of the vendors)

4) **General Overview of Site Drawing for Allowable Development**
   - Note - Added areas without generation estimates

5) **Review Bulletin A for this Mini-Bid :**
   - (SAM) Registration
   - Executive Order 271
   - 9 Clarifications
   - Review Attachments

6) **Review Site Specific Summary Highlights:**

   - Phased Construction
   - On-Site Work Hours / Utility Shut Downs
   - Special Considerations
   - WSP Soil & Well Monitoring Info – Update dated 12-13-2021 to be provided in Bulletin B.

7) **Immediate Question Session (to be answered in next bulletin / included in minutes)**

   - There were no questions asked at this time.

8) **All information associated with this Mini-Bid…Plans, Specifications** and **Bid Proposals** web-site:

   a. https://www.state.nj.us/treasury/dpmc/contract_project_adv.shtml

MANDATORY PRE-BID MEETING SIGN-IN SHEET

PROJECT #: A1322-02 **DPP Contract:** T3104

PROJECT TITLE: NJDOT Headquarters Solar PPA **DATE & TIME:** Wednesday, December 15, 2021

NOTE: Your firm is responsible to consider in its bid all material and information presented at this Mandatory Pre-Bid Meeting.

COMPANY NAME (PRINT)	REPRESENTATIVE (PRINT)	SIGNATURE	TELEPHONE NUMBER	EMAIL ADDRESS
Division of Property Management & Construction (DPMC)	Anthony R. Mazzella, Jr.		609-203-5593	anthony.mazzellajr@treas.nj.gov
Marina Energy	Dan Streit		609-709-8155	dstreit@dcoenergy.com frohs@sjindustries.com
~~Terry Richards~~ E2nergy	T. Reich		732-233-8201	Teora E2nergy
HESP Solar	Aaron Korobkin		4434228392	akorobkin@hespsolar.com
Advanced Solar products	Ashley Eick		609-731-2637	aeick@advancedsolarproducts.com
SUNPOWER ~~Corp~~	TAJDAR AHMED		872-888-5634	tajdar.ahmed@Sunpowercorp.com
ONYX RENEWABLES	Scott Musich		(732) 616 1826	SMusich@onyxrenewables.com
~~Naveen~~ NJDOT	Naveen Pemmetchar		609-503-1203	naveen.pemmetchar@dot.nj.gov
NJDOT	Hani Shamrouth		609 800 2675	hani.Shamrouth@dot.nj.gov

MANDATORY PRE-BID MEETING SIGN-IN SHEET

PROJECT #: A1322-02 **DPP Contract:** T3104

PROJECT TITLE: NJDOT Headquarters Solar PPA **DATE & TIME:** Wednesday, December 15, 2021

NOTE: Your firm is responsible to consider in its bid all material and information presented at this Mandatory Pre-Bid Meeting.

COMPANY NAME (PRINT)	REPRESENTATIVE (PRINT)	SIGNATURE	TELEPHONE NUMBER	EMAIL ADDRESS
MILLER BROS.	Tim Kitchell		717-809-0471	TKitchell@millerbros.us
CONSTELLATION LUMINACE	JOHN ORRINGER		732-496-2781	JOHN.ORRINGER@LUMINACE.COM
NJDOT	MIKE DEANGELO		609.963.2164	MIKE.DEANGELO@DOT.NJ.GOV


Buss Fuses


Buss Fuses

Landis+Gyr

CONTAINS FCC ID: TEB-HUNTSUB2S CONTAINS IC: 5851A-HUNTSUB2S

Landis+Gyr Gridstream RF

D005E8FD

MODULE MODEL: 26-1554

SERIES IV

ZigBee certified product

04 05962 kWh 120 Y

FM 9S
CL 20
TA 2.5

Kh 1.8
4W Y△
60 Hz
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[ ] RLM
[ ] WATTHOUR
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Type S4e AXR ANSI PROT

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CAUTION
DANGER
HIGH VOLTAGE
DANGER
HIGH VOLTAGE
DANGER
HIGH VOLTAGE

CAUTION
DUPLICATE SERVICE
CHECK FOR BACKFEED
ON ALL EQUIPMENT

DANGER
HIGH
VOLTAGE

REGULAR FEED

WARNING
Arc Flash and Shock Hazard
Appropriate PPE Required

CLOSED
OPEN

CAUTION
DUPLICATE SERVICE
CHECK FOR BACKFEED
ON ALL EQUIPMENT

DANGER
HIGH
VOLTAGE

EMERGENCY FEED

CLOSED
OPEN

HVL SWITCHGEAR ASSEMBLY

MAX. DES. VOLTAGE	15	KV
BASIC IMPULSE LEVEL	95	KV
FREQUENCY	60	HZ
MAIN BUS AMPACITY	600	A
BUS BRACING	40 000	A.ASY.
FACTORY ORDER	17-11471A	

SQUARE D COMPANY
MADE IN USA

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WARNING

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SWITCH ASSEMBLY

SWITCH M/L NO.	44035-233-51	
MAX. DES. VOLTAGE	15	KV.
BASIC IMPULSE LEVEL	95	KV.
FREQUENCY	60	HZ.
SW.CONT.CURR.RATING	600	A.
SWITCH INTER. RATING	600	A.
SW. MOM. RATING	40 000	A.ASY.
INTEGRATED SW. & FUSE SHORT CIRCUIT RATING		A.ASY.
FUSE SUPPLIED		
FUSE CAT. NO.		
FACTORY ORDER	17-11471A	

A1 00001

SQUARE D COMPANY

MADE IN U.S.A.

MEMO

TO: Kasey McDonald

FROM: Thomas Waldron

CC: James Sweet – NJDOT

Rachel Malaniak and Christopher Watt – WSP

SUBJECT: **Soil and Monitoring Well Information – Solar Project 2021**

NJDOT Fernwood Maintenance Facility and Office Complex

DATE: **December 13, 2021**

WSP USA Solutions, Inc. (WSP) is providing available subsurface soil and groundwater information collected at the former Thiokol Area of the Fernwood Maintenance Facility and Office Complex (Site) for the New Jersey Department of Transportation's (NJDOTs) located in Ewing Township, New Jersey. In addition, the NJDOT anticipates the Project will consist of ground-mounted panels (shown in black) and canopy-mounted panels (shown in red) to be installed throughout the Site, as depicted on Figure 1. Five known and/or suspected soil contamination areas are present at the Site, shallow groundwater contaminant plumes are depicted on Figure 2. Pertinent soil and monitoring well information collected as part of ongoing environmental activities are attached.

Area 1 - Thiokol Area: Soil and groundwater investigations have been conducted by WSP in 2020 and 2021 to evaluate petroleum and chlorinated volatile organic compounds (VOCs) in groundwater as depicted on Figure 2. In addition to VOCs, other groundwater contaminants were detected including, pesticides, metals, and semi-volatile organic compounds; however, additional sampling is required to confirm these results. Contaminated soils are suspected based on the high groundwater concentrations as well as qualitatively during the Membrane Interface Probe (MIP) investigations which indicate that petroleum and chlorinated VOCs (CVOCs) are present in soils, predominantly in the area south the Thiokol buildings (No's 2, 3, 4 and 9). However, the actual concentrations of contaminants have not been determined, as soil samples have not been collected for laboratory analysis.

Monitoring well logs for select Thiokol Area well pairs are provided for informational purposes about the unconsolidated soil, bedrock and groundwater levels in Area 1. Monitoring well logs for pairs MW-46 and 46D, MW45S and MW-45D and MW-32 and MW-32D are provided in Attachment 1 as well groundwater sampling results for the November 2021 sampling event.

The groundwater sampling results indicate that benzene and/or CVOCs (trichloroethylene, trichloroethylene, and carbon tetrachloride) have been identified in the groundwater where ground mounted panels are proposed along Lower Ferry Road. These compounds are also

identified in the groundwater in the southern Thiokol parking lot where canopy mounted panels are proposed.

Area 2 – Vehicle Wash Area: Multiple soil and groundwater investigations have been conducted in this area. During the construction of the vehicle wash building, a subsurface dumping area was discovered with most of the debris being removed. The area excavated was then filled with three-quarter inch stone as a clean-fill. Residual soil contamination containing polychlorinated biphenyls (PCBs), SVOCs, and metals, particularly lead (assumed to be associated with spent sand blasting material), remain present and will be deed noticed. Additional soil delineation is anticipated to be conducted in the Spring of 2022 in an effort to evaluate the horizontal extent of the contamination in the vicinity of the proposed canopy mounts.

Monitoring well logs for the three monitoring wells are provided for informational purposes about the unconsolidated soil and groundwater levels in Area 2. Soil sampling and groundwater sampling results are provided in Attachment 2. The monitoring well logs for MW-25, MW-26 and MW-27 include descriptions of the soils and groundwater depths are also provided in Attachment 2.

The soil sampling results indicate that elevated metals, PCB, semi-volatile organic compounds (SVOCs) and Extractable Petroleum Hydrocarbons (EPH) concentrations were identified. The groundwater sampling results indicate that benzene and/or CVOCs (trichloroethylene, trichloroethylene, and carbon tetrachloride) have been identified in the groundwater where ground mounted panels are proposed along Lower Ferry Road. The groundwater sampling results indicate that low concentrations of metals (beryllium) and VOCs (trichloroethylene) were detected. These compounds may be in the area where canopy mounted panels are proposed in the north of portion of Area 2.

Area 3 and Area 4 - Area 3 is the drum crusher area and Area 4 is the location of a former Underground Storage Tank (UST). Soil contamination is known and suspected in both these areas; however, no solar mounts are currently proposed. VOCs and semi-volatile organic compounds (SVOCs) are suspected in Area 3, while extractible petroleum hydrocarbons (EPH) are known to be present in Area 4.

Area 5- Fueling Station Area: Soil and groundwater investigations have been conducted in this area to evaluate discharges associated with the fueling station and Underground Storage Tanks (USTs). There are currently three active 20,000-gallon capacity USTs in this area. Low concentrations of petroleum and chlorinated VOCs have been identified in the soils. A soil investigation is proposed May 2020 to evaluate VOCs in soils. A gasoline additive, tertiary-butyl-alcohol (TBA) plume is located in the vicinity of the fueling station area; however, the concentrations of TBA in Plume Area 2 have deceased to concentrations below NJDEP standards. A benzene plume is present in the vicinity of well MW-1P; however, no solar mounts are currently proposed in this area.

Monitoring well logs for the select monitoring wells are provided for informational purposes about the unconsolidated soil and groundwater levels in Area 5. Soil sampling results and monitoring well logs for MW-1 through MW-4, MW-8, MW-9 and MW-10, which include a description of soil in Area 5, are provided in Attachment 3. Soil sampling results indicate that low concentrations of benzene and CVOCs are present in soils. The groundwater sampling

results for the November 2021 sampling event are also provided in Attachment 3. Groundwater sampling results indicate that low concentrations of gasoline-related VOCs are present.

Conclusions and Recommendations

Soil and/or groundwater contamination will likely be encountered in the areas of the proposed solar panel installations discussed above. Additional investigation and/or remedial activities are anticipated in these areas and the installation of solar structures could limit access to areas where additional investigation and/or remediation will be necessary.

Close coordination between the Solar Project design team and with the NJDOT Environmental Services Support Unit (ESSU) is recommended to minimize potential conflicts and to ensure that the latest sampling data is provided. Also, subsurface wastes generated during construction, i.e., excess soils and construction dewatering effluent, will need to be properly characterized and disposed of accordingly.

Kind Regards,

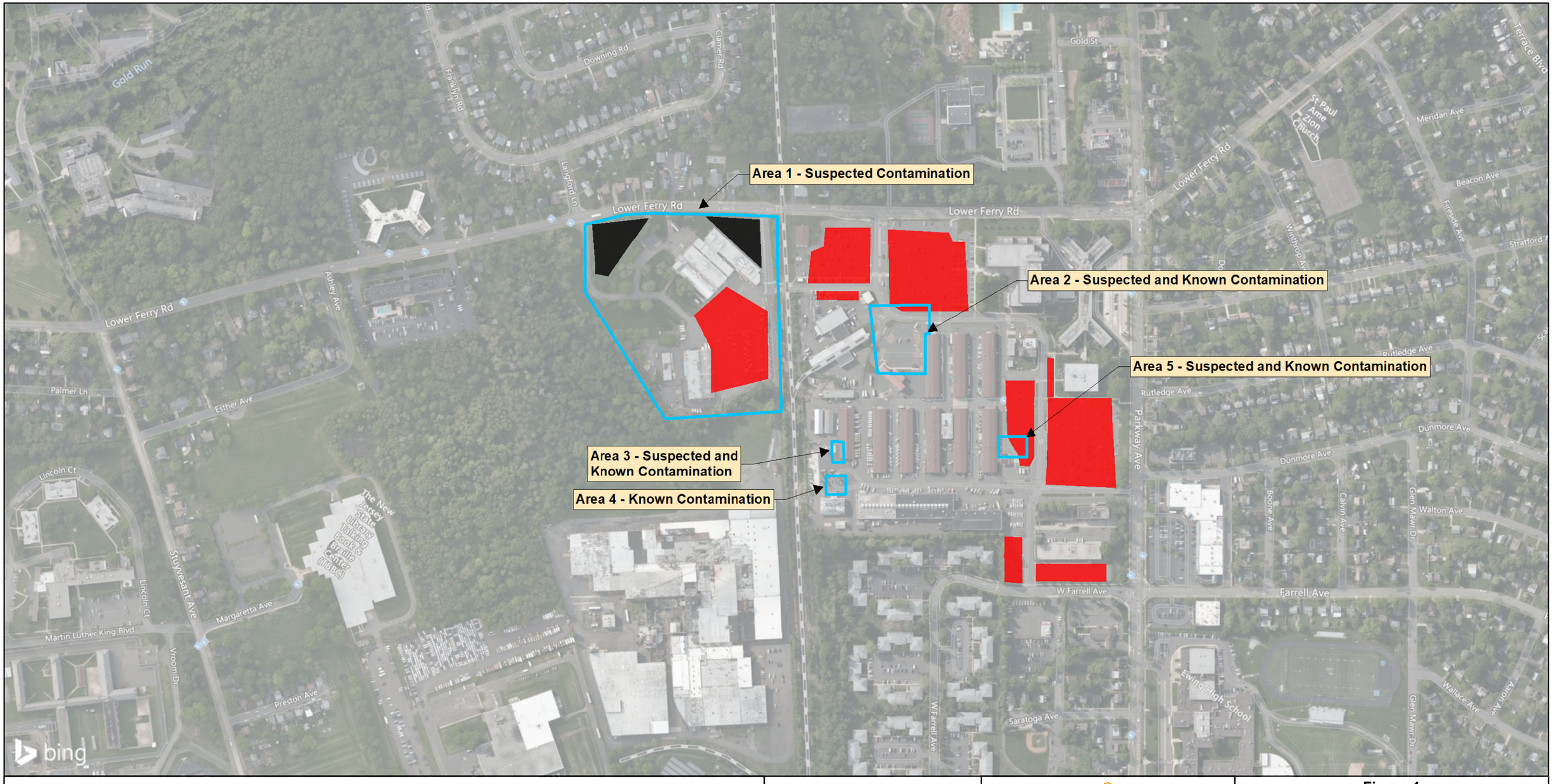
WSP USA Solutions Inc.

Thomas Waldron, LSRP
Program Manager

Enclosure:

Figure 1	Known and Suspected Areas of Soil Contamination
Figure 2	Shallow Groundwater Plumes and Monitoring Well Locations
Attachment 1	Groundwater Sampling Results and Monitoring Well Logs (Area 1)
Attachment 2	Soil and Groundwater Sampling Results and Monitoring Well Logs (Area 2)
Attachment 3	Soil and Groundwater Sampling Results and Monitoring Well Logs (Area 5)

FIGURES



Solar Development Areas

- Canopy Mount
- Ground Mount
- Site Boundary
- Suspected or Known Area of Soil Contamination

Contaminants of Concern

Area 1 = VOCs
Area 2 = Lead, SVOCs, PCBs, & other Metals
Area 3 = VOCs and SVOCs
Area 4 = EPH
Area 5 = VOCs

Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet

December 2021

Figure 1
Known and Suspected Areas of Soil Contamination
NJDOT - Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey

0 400 800 Feet

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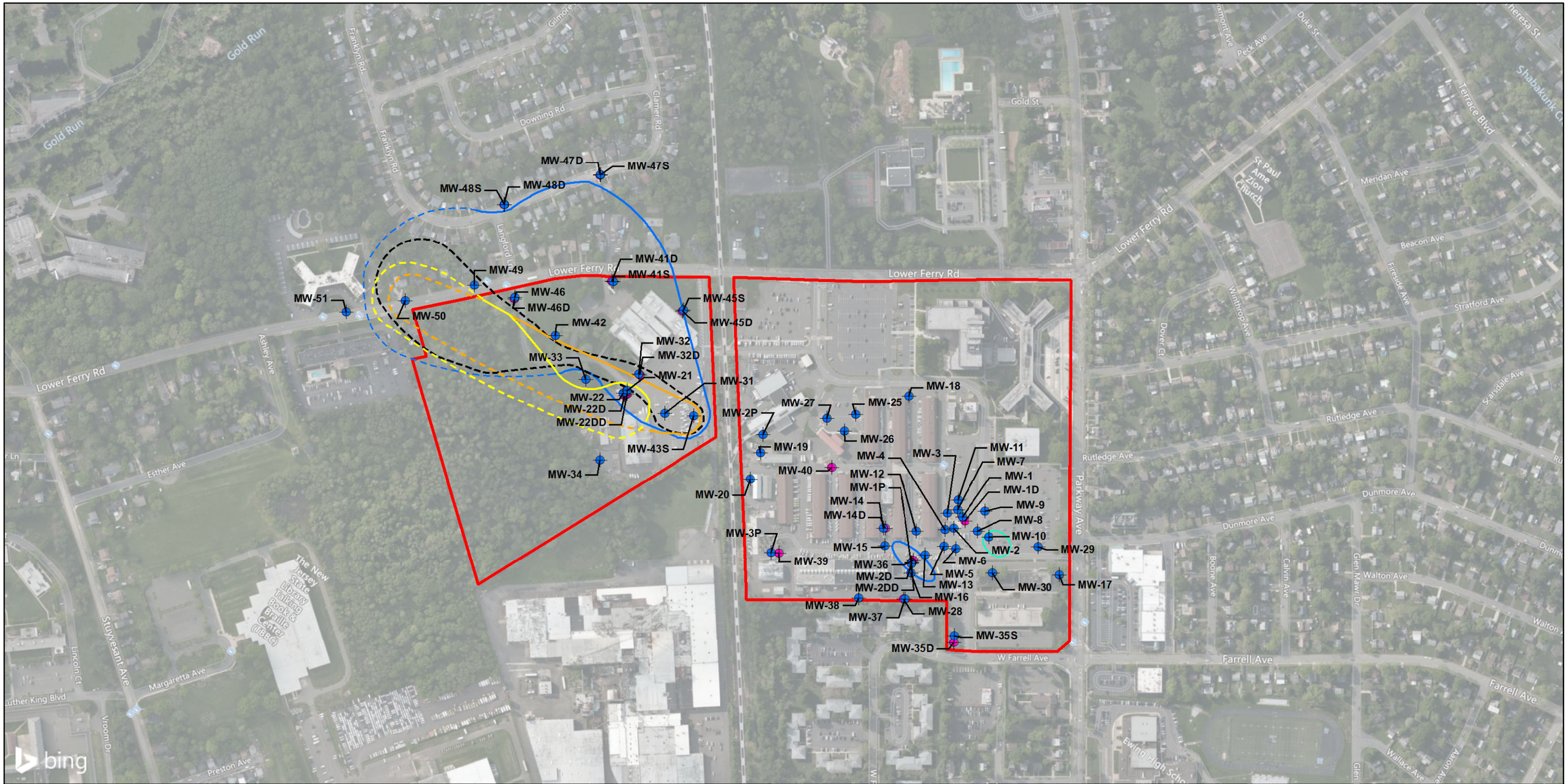

Contaminant Plumes Novmber 2021 (dashed where inferred)

- Benzene Plume (1 ug/L)
- Carbon Tetrachloride Plume (1 ug/L)
- Tert-Butyl Alcohol Plume (1 ug/L)
- PCE Plume (1 ug/L)
- TCE Plume (1 ug/L)

- Overburden Monitoring Well
- Bedrock Monitoring Well
- Site Boundary

Service Layer Credits: © 2021 Microsoft Corporation © 2021 Maxar ©CNES (2021) Distribution Airbus DS © 2021

Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet

December 2021

Figure 2

Overburden Groundwater Contaminant Plumes

NJDOT - Fernwood Maintenance Facilty

Ewing Township, New Jersey

0 400 800 Feet

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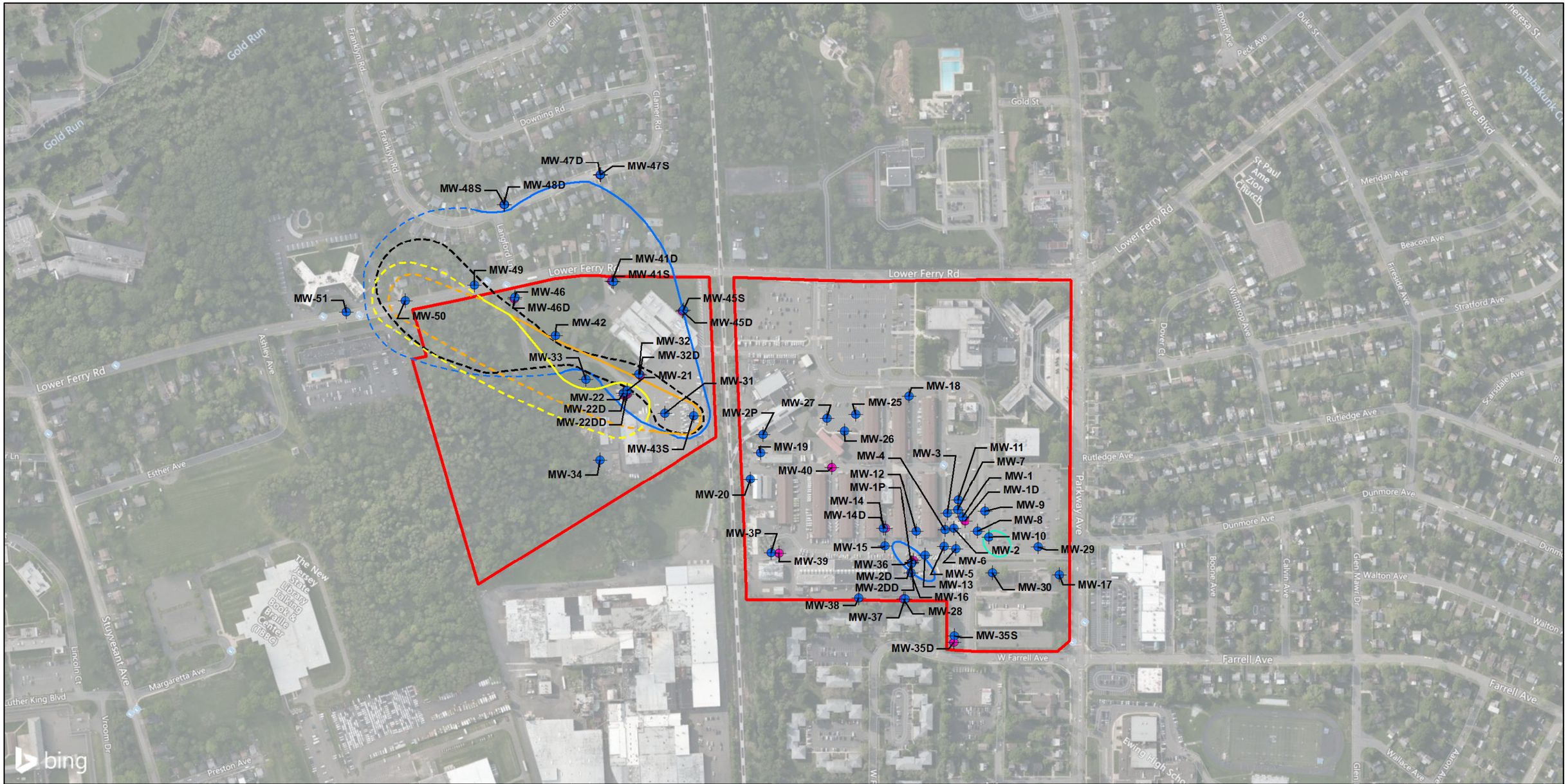
ATTACHMENT 1
AREA 1: FORMER THIOKOL AREA



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- TCE Plume (1 ug/L)

- Overburden Monitoring Well
- Bedrock Monitoring Well
- Site Boundary

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Coordinate System: NAD 1983 StatePlane New Jersey FIPS 2900 Feet

December 2021

Figure 2

Overburden Groundwater Contaminant Plumes

NJDOT - Fernwood Maintenance Facilty

Ewing Township, New Jersey

0 400 800 Feet

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Table 1

NJDOT

Fernwood Maintenance Facility and Office Complex

Ewing, New Jersey

Former Thiokol Area - Monitoring Well Analytical Data Summary - Nov. 2021

		Location ID	MW-21	MW-22	MW-22D		MW-22DD	MW-31	MW-32	MW-32D			MW-33	MW-35S	MW-35D	MW-37	MW-39	MW-40	MW-41S
		Sample ID	MW-21	MW-22	MW-22 D	DUP 02	MW-22 DD	MW-31	MW-32	MW-32D (A)	DUP-03	MW-32D (B)	MW-33	MW-35S	MW-35D	MW-37	MW-39	MW-40	MW-41S
		Laboratory ID	AD27457-006	AD27482-007	AD27457-007	AD27457-008	AD27457-005	AD27457-015	AD27482-006	AD27482-001	AD27482-003	AD27482-002	AD27457-001	AD27409-003	AD27409-002	AD27409-005	AD27434-005	AD27434-018	AD27457-012
		Sample Date	11/17/2021	11/18/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/18/2021	11/18/2021	11/18/2021	11/18/2021	11/17/2021	11/15/2021	11/15/2021	11/15/2021	11/16/2021	11/16/2021	11/17/2021
		Sample Depth (ft bgs)	14.20	14.23	33.17	40.98	41.20	12.73	11.75	30.50	30.50	35.50	10.80	15.66	34.16	20.25	39.70	36.13	9.03
Analyte	*GWQS*	*GWSL*																	
Metals																			
Aluminum	NC	NC	**2200**	**4100**	**790**	**680**	**710**	**3000**	**3600**	**640**	**450**	200 U	**1200**	NA	NA	NA	NA	NA	**520**
Antimony	6	NC	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	NA	NA	NA	NA	NA	3 U
Arsenic	3	NC	2 U	2 U	2 U	2 U	2 U	**5.8**	**7.8**	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Barium	6000	NC	**1100**	**770**	**460**	**700**	**270**	**750**	**970**	**1100**	**1100**	**1000**	**58**	NA	NA	NA	NA	NA	**220**
Beryllium	1	NC	1 U	1 U	1 U	1 U	1 U	**8.8**	1 U	**1.9**	**2.1**	**2.1**	1 U	NA	NA	NA	NA	NA	1 U
Cadmium	4	NC	**2.8**	2 U	2 U	2 U	2 U	**5.9**	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Calcium	NC	NC	**99000**	**83000**	**48000**	**64000**	**16000**	**160000**	**50000**	**48000**	**47000**	**46000**	5000 U	NA	NA	NA	NA	NA	**54000**
Chromium, Total	NC	NC	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	NA	NA	NA	NA	NA	50 U
Cobalt	100	NC	2 U	**2.2**	2 U	2 U	2 U	**110**	**130**	**18**	**18**	**18**	2 U	NA	NA	NA	NA	NA	2 U
Copper	1300	NC	**1600**	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	NA	NA	NA	NA	NA	50 U
Cyanide	0.1	NC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	0.02 U
Iron	NC	NC	**4400**	**6500**	**1500**	**1800**	**1300**	**400**	**21000**	**800**	**560**	300 U	**1200**	NA	NA	NA	NA	NA	300 U
Lead	5	NC	**48**	3 U	3 U	3 U	3 U	3 U	**3.9**	3 U	3 U	3 U	3 U	NA	NA	NA	NA	NA	3 U
Magnesium	NC	NC	**25000**	**26000**	**14000**	**20000**	**5600**	**160000**	**28000**	**25000**	**25000**	**24000**	5000 U	NA	NA	NA	NA	NA	**19000**
Manganese	NC	NC	**56**	**130**	**870**	**1100**	**190**	**2100**	**4100**	**640**	**630**	**610**	40 U	NA	NA	NA	NA	NA	**510**
Mercury	2	NC	**3.2**	**2.1**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.67**	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	0.5 U
Nickel	100	NC	50 U	50 U	50 U	50 U	50 U	**89**	50 U	50 U	50 U	50 U	50 U	NA	NA	NA	NA	NA	50 U
Potassium	NC	NC	5000 U	5000 U	5000 U	5000 U	5000 U	**9100**	5000 U	5000 U	5000 U	5000 U	5000 U	NA	NA	NA	NA	NA	**5500**
Selenium	40	NC	10 U	10 U	10 U	10 U	10 U	**36**	10 U	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U
Silver	40	NC	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	NA	NA	NA	NA	NA	20 U
Sodium	NC	NC	**61000**	**77000**	**23000**	**49000**	**17000**	**380000**	**520000**	**58000**	**58000**	**66000**	**33000**	NA	NA	NA	NA	NA	**100000**
Thallium	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Vanadium	NC	NC	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	NA	NA	NA	NA	NA	50 U
Zinc	2000	NC	**910**	50 U	50 U	50 U	50 U	**300**	**110**	**73**	**69**	**64**	50 U	NA	NA	NA	NA	NA	**58**
Pesticides																			
Aldrin	0.04	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Alpha Endosulfan	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Beta Endosulfan	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Chlordane	NC	NC	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	0.1 U
Delta Bhc (Delta Hexachlorocyclohexane)	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Dieldrin	0.03	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Endosulfan Sulfate	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Endrin	2	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Endrin Aldehyde	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Endrin Ketone	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Gamma Bhc (Lindane)	0.03	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Heptachlor	0.05	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Heptachlor Epoxide	0.2	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Methoxychlor	40	NC	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	NA	NA	NA	NA	NA	0.014 U
P,P'-Ddd	0.1	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
P,P'-Dde	0.1	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
P,P'-Ddt	0.1	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	NA	NA	NA	0.01 U
Toxaphene	2	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NA	NA	NA	NA	NA	0.25 U

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Fernwood Maintenance Facility and Office Complex

Ewing, New Jersey

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		Sample ID	MW-21	MW-22	MW-22 D	DUP 02	MW-22 DD	MW-31	MW-32	MW-32D (A)	DUP-03	MW-32D (B)	MW-33	MW-35S	MW-35D	MW-37	MW-39	MW-40	MW-41S
		Laboratory ID	AD27457-006	AD27482-007	AD27457-007	AD27457-008	AD27457-005	AD27457-015	AD27482-006	AD27482-001	AD27482-003	AD27482-002	AD27457-001	AD27409-003	AD27409-002	AD27409-005	AD27434-005	AD27434-018	AD27457-012
		Sample Date	11/17/2021	11/18/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/18/2021	11/18/2021	11/18/2021	11/18/2021	11/17/2021	11/15/2021	11/15/2021	11/15/2021	11/16/2021	11/16/2021	11/17/2021
		Sample Depth (ft bgs)	14.20	14.23	33.17	40.98	41.20	12.73	11.75	30.50	30.50	35.50	10.80	15.66	34.16	20.25	39.70	36.13	9.03
Analyte	*GWQS*	*GWSL*																	
Polychlorinated Biphenyl																			
Pcb-1016 (Aroclor 1016)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NA	NA	NA	NA	NA	0.25 U
Pcb-1221 (Aroclor 1221)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NA	NA	NA	NA	NA	0.25 U
Pcb-1232 (Aroclor 1232)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NA	NA	NA	NA	NA	0.25 U
Pcb-1242 (Aroclor 1242)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NA	NA	NA	NA	NA	0.25 U
Pcb-1248 (Aroclor 1248)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NA	NA	NA	NA	NA	0.25 U
Pcb-1254 (Aroclor 1254)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NA	NA	NA	NA	NA	0.25 U
Pcb-1260 (Aroclor 1260)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NA	NA	NA	NA	NA	0.25 U
Pcb-1262 (Aroclor 1262)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NA	NA	NA	NA	NA	0.25 U
Pcb-1268 (Aroclor 1268)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NA	NA	NA	NA	NA	0.25 U
Total PCBs	0.5	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	NA	NA	NA	NA	NA	0.25 U
Volatile Organic Compounds																			
1,1,1-Trichloroethane	30	13000	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	20000	20000	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	3	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	50	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	1	26	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NC	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	9	130	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	600	6800	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	2	230	0.5 U	0.1 U	1 U	1 U	20 U	0.1 U	0.1 U	50 U	50 U	50 U	0.1 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	20 U
1,2-Dichloropropane	1	11	1 U	0.2 U	2 U	2 U	40 U	0.2 U	0.2 U	100 U	100 U	100 U	0.2 U	1 U	1 U	1 U	1 U	1 U	40 U
1,3-Dichlorobenzene	600	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	21000	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	40	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	6000	21000000	5 U	5 U	5 U	5 U	250 U	5 U	5 U	2500 U	2500 U	2500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	23	**0.3**	**0.036**	**470**	**340**	**6800**	**0.25**	**130**	**59000**	**64000**	**63000**	0.02 U	0.5 U	0.5 U	0.5 U	**8.6**	0.5 U	**3600**
Bromochloromethane	NC	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	1	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	10	20	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	700	1500	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	1	1	0.5 U	0.1 U	1 U	1 U	**79**	**56**	**3.9**	50 U	50 U	50 U	0.1 U	1 U	1 U	1 U	1 U	1 U	20 U
Chlorobenzene	50	770	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NC	26000	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	70	1000	**4.1**	**2.3**	2 U	2 U	98 U	**7.6**	**6.7**	980 U	980 U	980 U	2 U	2 U	2 U	2 U	2 U	2 U	**12**
Chloromethane	NC	240	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	70	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,3-Dichloropropene	NC	NC	0.5 U	0.1 U	1 U	1 U	20 U	0.1 U	0.1 U	50 U	50 U	50 U	0.1 U	1 U	1 U	1 U	1 U	1 U	20 U
Cyclohexane	NC	16000	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	1	NC	0.5 U	0.1 U	1 U	1 U	20 U	0.1 U	0.1 U	50 U	50 U	50 U	0.1 U	1 U	1 U	1 U	1 U	1 U	20 U
Dichlorodifluoromethane	1000	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	700	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	700	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	**3.7**	1 U	1 U
M,P-Xylene	NC	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Acetate	7000	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	300	2500000	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NC	900000	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

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		Sample Depth (ft bgs)	14.20	14.23	33.17	40.98	41.20	12.73	11.75	30.50	30.50	35.50	10.80	15.66	34.16	20.25	39.70	36.13	9.03
Analyte	*GWQS*	*GWSL*																	
VOCs (continued)																			
Methylcyclohexane	NC	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	2600	1 U	1 U	1 U	1 U	50 U	1 U	**2.1**	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	NC	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	**20**	1 U	1 U
Styrene	100	180000	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-Butyl Alcohol	100	NC	5 U	5 U	5 U	5 U	250 U	5 U	5 U	2500 U	2500 U	2500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tert-Butyl Methyl Ether	70	690	0.5 U	0.5 U	0.5 U	0.5 U	25 U	0.5 U	0.5 U	250 U	250 U	250 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.74**	0.5 U
Tetrachloroethylene (Pce)	1	36	**150**	**78**	**2.3**	**9**	20 U	**0.33**	0.1 U	50 U	50 U	50 U	0.1 U	1 U	**1.4**	1 U	1 U	**4.5**	20 U
Toluene	600	330000	1 U	1 U	1 U	1 U	50 U	1 U	**1.2**	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	100	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	NC	NC	0.5 U	0.1 U	1 U	1 U	20 U	0.1 U	0.1 U	50 U	50 U	50 U	0.1 U	1 U	1 U	1 U	1 U	1 U	20 U
Trichloroethylene (Tce)	1	1	**48**	**27**	**8**	**16**	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.5**
Trichlorofluoromethane	NC	NC	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	1	1	0.1 U	0.02 U	0.2 U	0.2 U	4 U	0.02 U	0.02 U	10 U	10 U	10 U	0.02 U	1 U	1 U	1 U	1 U	1 U	4 U
Xylenes	NC	7800	1 U	1 U	1 U	1 U	50 U	1 U	1 U	500 U	500 U	500 U	1 U	1 U	1 U	1 U	**20**	1 U	1 U
Sum of Non Target VOCs	NC	NC	**3.1 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13 J**	ND	ND
Semi-Volatile Organic Compounds																			
1,2,4,5-Tetrachlorobenzene			2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
1,4-Dioxane (P-Dioxane)	0.4	2500	0.52 U	0.5 U	0.5 U	0.52 U	0.5 U	0.5 U	0.53 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	0.5 U
2,3,4,6-Tetrachlorophenol	200	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
2,4,5-Trichlorophenol	700	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
2,4,6-Trichlorophenol	20	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
2,4-Dichlorophenol	20	NC	0.52 U	0.5 U	0.5 U	0.52 U	0.5 U	0.5 U	0.53 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	0.5 U
2,4-Dimethylphenol	100	NC	0.58 U	0.55 U	0.55 U	0.58 U	0.55 U	0.55 U	0.58 U	0.55 U	0.55 U	0.55 U	0.55 U	NA	NA	NA	NA	NA	0.55 U
2,4-Dinitrophenol	40	NC	10 U	10 U	10 U	10 U	10 U	10 U	11 U	10 U	10 U	10 U	10 U	NA	NA	NA	NA	NA	10 U
2,4-Dinitrotoluene	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
2,6-Dinitrotoluene	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
2-Chloronaphthalene	600	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
2-Chlorophenol	40	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
2-Methylnaphthalene	30	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
2-Methylphenol (O-Cresol)	50	NC	0.52 U	0.5 U	0.5 U	0.52 U	0.5 U	0.5 U	0.53 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	0.5 U
2-Nitroaniline	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
2-Nitrophenol	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
3,3'-Dichlorobenzidine	30	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
3-Nitroaniline	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
4-Bromophenyl Phenyl Ether	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
4-Chloro-3-Methylphenol	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
4-Chloroaniline	30	NC	0.52 U	0.5 U	0.5 U	0.52 U	0.5 U	0.5 U	0.53 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	0.5 U
4-Chlorophenyl Phenyl Ether	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
4-Methylphenol (P-Cresol)	50	NC	0.52 U	0.5 U	0.5 U	0.52 U	0.5 U	0.5 U	0.53 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	0.5 U
4-Nitroaniline	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
4-Nitrophenol	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Acenaphthene	400	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Acenaphthylene	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Acetophenone	700	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Anthracene	2000	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Atrazine	3	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Benzaldehyde	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Benzo(G,H,I)Perylene	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U

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Table 1

NJDOT

Fernwood Maintenance Facility and Office Complex

Ewing, New Jersey

Former Thiokol Area - Monitoring Well Analytical Data Summary - Nov. 2021

		Location ID	MW-21	MW-22	MW-22D		MW-22DD	MW-31	MW-32	MW-32D			MW-33	MW-35S	MW-35D	MW-37	MW-39	MW-40	MW-41S
		Sample ID	MW-21	MW-22	MW-22 D	DUP 02	MW-22 DD	MW-31	MW-32	MW-32D (A)	DUP-03	MW-32D (B)	MW-33	MW-35S	MW-35D	MW-37	MW-39	MW-40	MW-41S
		Laboratory ID	AD27457-006	AD27482-007	AD27457-007	AD27457-008	AD27457-005	AD27457-015	AD27482-006	AD27482-001	AD27482-003	AD27482-002	AD27457-001	AD27409-003	AD27409-002	AD27409-005	AD27434-005	AD27434-018	AD27457-012
		Sample Date	11/17/2021	11/18/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/18/2021	11/18/2021	11/18/2021	11/18/2021	11/17/2021	11/15/2021	11/15/2021	11/15/2021	11/16/2021	11/16/2021	11/17/2021
		Sample Depth (ft bgs)	14.20	14.23	33.17	40.98	41.20	12.73	11.75	30.50	30.50	35.50	10.80	15.66	34.16	20.25	39.70	36.13	9.03
Analyte	*GWQS*	*GWSL*																	
SVOCs (continued)																			
Benzyl Butyl Phthalate	100	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Biphenyl (Diphenyl)	400	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Bis(2-Chloroethoxy) Methane	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	7	NC	0.52 U	0.5 U	0.5 U	0.52 U	0.5 U	0.5 U	0.53 U	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	NA	NA	NA	0.5 U
Bis(2-Chloroisopropyl) Ether	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Bis(2-Ethylhexyl) Phthalate	3	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Caprolactam	4000	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Carbazole	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Chrysene	5	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Dibenzofuran	NC	NC	0.71 U	0.68 U	0.68 U	0.71 U	0.68 U	0.68 U	0.72 U	0.68 U	0.68 U	0.68 U	0.68 U	NA	NA	NA	NA	NA	0.68 U
Diethyl Phthalate	6000	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Dimethyl Phthalate	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Di-N-Butyl Phthalate	700	NC	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	NA	NA	NA	NA	NA	1.1 U
Di-N-Octylphthalate	100	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Fluoranthene	300	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Fluorene	300	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Hexachlorocyclopentadiene	40	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Isophorone	40	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Naphthalene	300	300	0.52 U	0.5 U	0.5 U	0.52 U	**11**	0.5 U	0.53 U	**61**	**92**	**91**	0.5 U	NA	NA	NA	NA	NA	**2**
Nitrobenzene	6	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	**7.3**	**4.3**	**4**	2 U	NA	NA	NA	NA	NA	2 U
N-Nitrosodi-N-Propylamine	10	NC	0.67 U	0.64 U	0.64 U	0.67 U	0.64 U	0.64 U	0.68 U	0.64 U	0.64 U	0.64 U	0.64 U	NA	NA	NA	NA	NA	0.64 U
N-Nitrosodiphenylamine	10	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Phenanthrene	NC	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Phenol	2000	NC	2.1 U	2 U	2 U	**6.4**	**34**	2 U	2.1 U	**47**	**7.8**	2 U	2 U	NA	NA	NA	NA	NA	**13**
Pyrene	200	NC	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2.1 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	NA	2 U
Sum of Non Target SVOCs	NC	NC	**64 J**	**45 J**	**55 J**	**68 J**	**920 J**	**55 J**	**150 J**	**4000 J**	**46 J**	**44 J**	**76 J**	NA	NA	NA	NA	NA	**260 J**
SVOCs (SIMs)																			
4,6-Dinitro-2-Methylphenol	NC	NC	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	0.2 U
Benzo(A)Anthracene	0.1	NC	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	0.02 U
Benzo(A)Pyrene	0.1	NC	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	0.02 U
Benzo(B)Fluoranthene	0.2	NC	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	0.02 U
Benzo(K)Fluoranthene	0.5	NC	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	0.02 U
Dibenz(A,H)Anthracene	0.3	NC	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	0.02 U
Hexachlorobenzene	0.02	NC	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	0.02 U
Hexachlorobutadiene	1	NC	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	0.02 U
Hexachloroethane	7	NC	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	0.02 U
Indeno(1,2,3-C,D)Pyrene	0.2	NC	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.021 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	NA	NA	NA	0.02 U
N-Nitrosodimethylamine	NC	NC	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	0.2 U
Pentachlorophenol	0.3	NC	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.2 U	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	NA	NA	NA	NA	NA	0.2 U

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Table 1

NJDOT

Fernwood Maintenance Facility and Office Complex

Ewing, New Jersey

Former Thiokol Area - Monitoring Well Analytical Data Summary - Nov. 2021

		Location ID	MW-41D	MW-42	MW-43R	MW-45S	MW-45D	MW-46S	MW-46D		MW-47S	MW-47D	MW-48S	MW-48D	MW-49	MW-50
		Sample ID	MW-41 D	MW-42	MW-43R	MW-45S	MW-45D	MW-46S	MW-46D A	MW-46D B	MW-47S	MW-47D	MW-48S	MW-48D	MW-49	MW-50
		Laboratory ID	AD27457-010	AD27482-008	AD27434-019	AD27457-014	AD27457-013	AD27457-002	AD27457-003	AD27457-004	AD27434-006	AD27434-007	AD27434-008	AD27434-009	AD27482-005	AD27482-004
		Sample Date	11/17/2021	11/18/2021	11/16/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/16/2021	11/16/2021	11/16/2021	11/16/2021	11/18/2021	11/18/2021
		Sample Depth (ft bgs)	24.02	7.50	15.72	11.82	34.23	6.09	24.50	29.50	27.82	36.36	21.98	55.43	12.00	11.00
Analyte	*GWQS*	*GWSL*														
Metals																
Aluminum	NC	NC	200 U	200 U	**490**	**230**	**1600**	**6000**	**220**	200 U	**250**	200 U	**3200**	**480**	**320**	200 U
Antimony	6	NC	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Arsenic	3	NC	2 U	**4.8**	2 U	2 U	2 U	**4.7**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Barium	6000	NC	**400**	**230**	**330**	**78**	**950**	**350**	**1000**	**960**	**400**	**340**	**360**	**830**	**760**	**880**
Beryllium	1	NC	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cadmium	4	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Calcium	NC	NC	**70000**	**22000**	**26000**	**33000**	**120000**	**47000**	**120000**	**130000**	**40000**	**34000**	**44000**	**76000**	**130000**	**88000**
Chromium, Total	NC	NC	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Cobalt	100	NC	2 U	**44**	**18**	2 U	2 U	**5.9**	2 U	2 U	2 U	2 U	**4.5**	2 U	2 U	2 U
Copper	1300	NC	50 U	50 U	50 U	50 U	50 U	**75**	50 U	50 U	50 U	50 U	50 U	**140**	50 U	**100**
Cyanide	0.1	NC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Iron	NC	NC	300 U	**17000**	300 U	300 U	**2200**	**16000**	300 U	**510**	300 U	300 U	**3300**	**840**	**510**	**410**
Lead	5	NC	3 U	3 U	3 U	3 U	3 U	**5.2**	3 U	3 U	3 U	3 U	3 U	3 U	3 U	**3.5**
Magnesium	NC	NC	**18000**	**11000**	**19000**	**10000**	**45000**	**14000**	**32000**	**33000**	**12000**	**7600**	**14000**	**22000**	**38000**	**21000**
Manganese	NC	NC	**240**	**2000**	**580**	40 U	**100**	**850**	**250**	**430**	40 U	**53**	**2400**	**2700**	**140**	40 U
Mercury	2	NC	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nickel	100	NC	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Potassium	NC	NC	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	5000 U	**5100**	5000 U	5000 U	**6700**	5000 U	5000 U	5000 U
Selenium	40	NC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Silver	40	NC	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Sodium	NC	NC	**43000**	**140000**	**51000**	**15000**	**60000**	**93000**	**110000**	**130000**	**25000**	**21000**	**35000**	**12000**	**89000**	**25000**
Thallium	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Vanadium	NC	NC	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Zinc	2000	NC	50 U	50 U	50 U	50 U	50 U	**110**	50 U	50 U	50 U	50 U	50 U	50 U	50 U	**62**
Pesticides																
Aldrin	0.04	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Alpha Endosulfan	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Beta Endosulfan	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chlordane	NC	NC	**0.14**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Delta Bhc (Delta Hexachlorocyclohexane)	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Dieldrin	0.03	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.29**	0.01 U	**0.06**	0.01 U	0.01 U	0.01 U
Endosulfan Sulfate	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Endrin	2	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Endrin Aldehyde	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Endrin Ketone	NC	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Gamma Bhc (Lindane)	0.03	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Heptachlor	0.05	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Heptachlor Epoxide	0.2	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methoxychlor	40	NC	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
P,P'-Ddd	0.1	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
P,P'-Dde	0.1	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
P,P'-Ddt	0.1	NC	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Toxaphene	2	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

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Table 1

NJDOT

Fernwood Maintenance Facility and Office Complex

Ewing, New Jersey

Former Thiokol Area - Monitoring Well Analytical Data Summary - Nov. 2021

			Location ID	MW-41D	MW-42	MW-43R	MW-45S	MW-45D	MW-46S	MW-46D		MW-47S	MW-47D	MW-48S	MW-48D	MW-49	MW-50
			Sample ID	MW-41 D	MW-42	MW-43R	MW-45S	MW-45D	MW-46S	MW-46D A	MW-46D B	MW-47S	MW-47D	MW-48S	MW-48D	MW-49	MW-50
			Laboratory ID	AD27457-010	AD27482-008	AD27434-019	AD27457-014	AD27457-013	AD27457-002	AD27457-003	AD27457-004	AD27434-006	AD27434-007	AD27434-008	AD27434-009	AD27482-005	AD27482-004
			Sample Date	11/17/2021	11/18/2021	11/16/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/16/2021	11/16/2021	11/16/2021	11/16/2021	11/18/2021	11/18/2021
			Sample Depth (ft bgs)	24.02	7.50	15.72	11.82	34.23	6.09	24.50	29.50	27.82	36.36	21.98	55.43	12.00	11.00
Analyte	*GWQS*	*GWSL*															
Polychlorinated Biphenyl																	
Pcb-1016 (Aroclor 1016)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Pcb-1221 (Aroclor 1221)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Pcb-1232 (Aroclor 1232)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Pcb-1242 (Aroclor 1242)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Pcb-1248 (Aroclor 1248)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Pcb-1254 (Aroclor 1254)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Pcb-1260 (Aroclor 1260)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Pcb-1262 (Aroclor 1262)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Pcb-1268 (Aroclor 1268)	NC	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Total PCBs	0.5	NC	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Volatile Organic Compounds																	
1,1,1-Trichloroethane	30	13000	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
1,1,2,2-Tetrachloroethane	1	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	20000	20000	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
1,1,2-Trichloroethane	3	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
1,1-Dichloroethane	50	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
1,1-Dichloroethene	1	26	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	**3.8**	50 U	50 U
1,2,3-Trichlorobenzene	NC	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
1,2,4-Trichlorobenzene	9	130	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
1,2-Dichlorobenzene	600	6800	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
1,2-Dichloroethane	2	230	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U	20 U	0.1 U	0.1 U	0.1 U	0.1 U	50 U	50 U
1,2-Dichloropropane	1	11	0.2 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	2 U	40 U	0.2 U	0.2 U	0.2 U	0.2 U	100 U	100 U
1,3-Dichlorobenzene	600	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
1,4-Dichlorobenzene	75	21000	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
2-Hexanone	40	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Acetone	6000	21000000	5 U	25 U	5 U	5 U	5 U	5 U	50 U	100 U	5 U	5 U	5 U	5 U	250 U	250 U
Benzene	1	23	**27**	**710**	**200**	0.02 U	0.02 U	**18**	**1100**	**2100**	0.02 U	0.02 U	0.02 U	**0.047**	**8900**	**22000**
Bromochloromethane	NC	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Bromodichloromethane	1	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Bromoform	4	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Bromomethane	10	20	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Carbon Disulfide	700	1500	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Carbon Tetrachloride	1	1	**0.9**	**3.1**	**86**	0.1 U	0.1 U	0.1 U	1 U	20 U	**0.16**	0.1 U	0.1 U	0.1 U	50 U	**110**
Chlorobenzene	50	770	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Chloroethane	NC	26000	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Chloroform	70	1000	**8.1**	9.8 U	**9.8**	2 U	2 U	2 U	20 U	39 U	2 U	2 U	2 U	2 U	98 U	98 U
Chloromethane	NC	240	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Cis-1,2-Dichloroethylene	70	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Cis-1,3-Dichloropropene	NC	NC	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U	20 U	0.1 U	0.1 U	0.1 U	0.1 U	50 U	50 U
Cyclohexane	NC	16000	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Dibromochloromethane	1	NC	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U	20 U	0.1 U	0.1 U	0.1 U	0.1 U	50 U	50 U
Dichlorodifluoromethane	1000	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Ethylbenzene	700	700	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Isopropylbenzene (Cumene)	700	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
M,P-Xylene	NC	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Methyl Acetate	7000	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Methyl Ethyl Ketone (2-Butanone)	300	2500000	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NC	900000	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U

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			Sample Date	11/17/2021	11/18/2021	11/16/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/16/2021	11/16/2021	11/16/2021	11/16/2021	11/18/2021	11/18/2021
			Sample Depth (ft bgs)	24.02	7.50	15.72	11.82	34.23	6.09	24.50	29.50	27.82	36.36	21.98	55.43	12.00	11.00
Analyte	*GWQS*	*GWSL*															
VOCs (continued)																	
Methylcyclohexane	NC	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Methylene Chloride	3	2600	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
O-Xylene (1,2-Dimethylbenzene)	NC	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Styrene	100	180000	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Tert-Butyl Alcohol	100	NC	5 U	25 U	5 U	5 U	5 U	5 U	50 U	100 U	5 U	5 U	5 U	5 U	250 U	250 U
Tert-Butyl Methyl Ether	70	690	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	25 U
Tetrachloroethylene (Pce)	1	36	**1.1**	**0.5**	**1.1**	0.1 U	0.1 U	0.1 U	1 U	20 U	**0.32**	**0.41**	**0.82**	**1.1**	50 U	**53**
Toluene	600	330000	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Trans-1,2-Dichloroethene	100	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Trans-1,3-Dichloropropene	NC	NC	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U	20 U	0.1 U	0.1 U	0.1 U	0.1 U	50 U	50 U
Trichloroethylene (Tce)	1	1	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	**66**
Trichlorofluoromethane	NC	NC	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	**1.3**	50 U	50 U
Vinyl Chloride	1	1	0.02 U	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.2 U	4 U	0.02 U	0.02 U	0.02 U	**0.12**	10 U	10 U
Xylenes	NC	7800	1 U	5 U	1 U	1 U	1 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	50 U	50 U
Sum of Non Target VOCs	NC	NC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds																	
1,2,4,5-Tetrachlorobenzene			2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	0.4	2500	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,3,4,6-Tetrachlorophenol	200	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,4,5-Trichlorophenol	700	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,4,6-Trichlorophenol	20	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,4-Dichlorophenol	20	NC	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-Dimethylphenol	100	NC	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U
2,4-Dinitrophenol	40	NC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,6-Dinitrotoluene	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Chloronaphthalene	600	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Chlorophenol	40	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	30	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylphenol (O-Cresol)	50	NC	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitroaniline	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Nitrophenol	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
3,3'-Dichlorobenzidine	30	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
3-Nitroaniline	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Bromophenyl Phenyl Ether	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloro-3-Methylphenol	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	30	NC	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Chlorophenyl Phenyl Ether	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methylphenol (P-Cresol)	50	NC	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Nitroaniline	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Nitrophenol	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acenaphthene	400	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acenaphthylene	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acetophenone	700	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Anthracene	2000	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Atrazine	3	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzaldehyde	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(G,H,I)Perylene	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U

Notes:

- All results are presented in ug/l (ppb)
- GWQS = New Jersey Groundwater Quality Standard, June 2020
- GWSL = New Jersey Vapor Intrusion Guidance Ground Water Screening Levels, May 202
- NA = Not Analyzed
- NC = No Criteria
- ND = Non-Detect
- J = Compound detected below the quantitation limit
- U = Compound was not detected
- **Bold values indicated positive detections**
- **Shaded values exceed the GWQS**
- **Shaded values exceed both the GWQS and GWSL**

Drilling Log

Page 1 of 2

BORING NO.: MW-46

WELL NO.: MW-46

CLIENT: New Jersey Department of Transportation	**PROJECT NO.:** LE2001811.004
PROJECT: Fernwood Maintenance Complex	**DATE STARTED:** 10/19/2020
DRILLING CONTRACTOR: Talon Drilling Company	**DATE FINISHED:** 10/19/2020
DRILLING METHOD: Direct Push	**DRILLER:** C. Jaworski

BOREHOLE DATA	WELL DATA	
Diameter (in):	**Completion:** 10/19/2020	**INSPECTOR:** H. Patel
Total Depth (ft.): 10	**Total Depth (ft.):** 10	**NORTHING:**
Sampler:	**Screen Length (ft.)/Slot (in):**	**EASTING:**
Depth to Water (ft.):	**Depth to Water (ft.):**	**GROUND ELEVATION:**
Depth to Rock (ft.):	**Permit No.:**	**TOC ELEVATION:**

NOTES:

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
		SW-SC				<1	Dark yellowish brown (10YR 4/2), medium to fine SAND, little Silty Clay, little fine Gravel, moist.	
		SW-SC				<1	Dusky yellowish brown (10YR 2/2), medium to fine SAND, trace Silty Clay, little medium to fine Gravel, moist.	
1								
		SW-SC				<1	Olive gray (5Y 4/1), medium to fine SAND, trace Silty Clay, trace medium to fine Gravel, moist.	
2								
		SW-SC				<1	Light olive gray (5Y 6/1), medium to fine SAND, some Silty Clay, moist.	
3								
4								
		SW-SC				<1	Light olive gray (5Y 6/1), medium to fine SAND, some Silty Clay, moist.	
5								

Drilling Log

BORING NO.: MW-46

WELL NO.: MW-46

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
7		SW-SC				<1	Light olive gray (5Y 6/1), medium to fine SAND, some Silty Clay, moist.	
8		SW-SM				<1	Pale brown (5YR 5/2), medium to fine SAND, little Silt, little medium to fine Gravel, damp.	**Weathered bedrock at 8' bgs**
9								
10							Total Depth of Boring 10 feet.	
11								
12								
13								
14								

Drilling Log

Page 1 of 5

BORING NO.: MW-46D

WELL NO.: MW-46D

CLIENT: New Jersey Department of Transportation	**PROJECT NO.:** LE2001811.004
PROJECT: Fernwood Maintenance Complex	**DATE STARTED:** 10/14/2021
DRILLING CONTRACTOR: Talon Drilling Company	**DATE FINISHED:** 10/15/2021
DRILLING METHOD: Air-rotary	**DRILLER:** C. Jaworski
BOREHOLE DATA / **WELL DATA**	**INSPECTOR:** C. Calandrillo
Diameter (in): 6 / **Completion:**	**NORTHING:**
Total Depth (ft.): 31 / **Total Depth (ft.):** 31	**EASTING:**
Sampler: NA / **Screen Length (ft.)/Slot (in):** 10	**GROUND ELEVATION:**
Depth to Water (ft.): / **Depth to Water (ft.):**	**TOC ELEVATION:**
Depth to Rock (ft.): 15 / **Permit No.:**	

NOTES:

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
0		SP-SM				<1	Grayish brown (5YR 3/2) to dusky red (5R 3/4), coarse to fine SAND, trace SILT, no.	
5		CL-ML				<1	Grayish brown (5YR 3/2) to dusky red (5R 3/4), Clayey Silt, damp.	

Drilling Log

BORING NO.: MW-46D

WELL NO.: MW-46D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
7		CL-ML				<1	Grayish brown (5YR 3/2) to dusky red (5R 3/4), Clayey Silt, damp.	
8								
9								
10		CL-ML				<1	Grayish brown (5YR 3/2) to dusky red (5R 3/4), Clayey Silt, and Weathered rock (shale), moist.	
11								
12								
13								
14								

Drilling Log

BORING NO.: MW-46D

WELL NO.: MW-46D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
15		CL-ML				<1	Grayish brown (5YR 3/2) to dusky red (5R 3/4), Clayey Silt, and Weathered rock (shale), moist.	
						<1	Grayish brown (5YR 3/2), Weathered rock (shale), moist.	
16								
17								
18								
19								
20		SPG				<1	Grayish brown (5YR 3/2), coarse to medium SAND, trace GRAVEL, moist.	
21								
22								

Drilling Log

BORING NO.: MW-46D

WELL NO.: MW-46D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
23		SPG				<1	Grayish brown (5YR 3/2), coarse to medium SAND, trace GRAVEL, moist.	
24								
25						<1	Grayish brown (5YR 3/2), Weathered rock (shale), moist.	
26								
27								
28								
29								
30						<1	Grayish brown (5YR 3/2), Weathered rock (shale), moist.	

Drilling Log

BORING NO.: MW-46D

WELL NO.: MW-46D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
31						<1	Grayish brown (5YR 3/2), Weathered rock (shale), moist.	
							Total Depth of Boring 31 feet.	
32								
33								
34								
35								
36								
37								
38								
39								

Drilling Log

BORING NO.: MW-45S

WELL NO.: MW-45S

CLIENT:	New Jersey Department of Transportation	**PROJECT NO.:**	LE2001811.004
PROJECT:	Fernwood Maintenance Complex	**DATE STARTED:**	10/19/2020
DRILLING CONTRACTOR:	Talon Drilling Company	**DATE FINISHED:**	10/19/2020
DRILLING METHOD:	Direct Push	**DRILLER:**	C. Jaworski
BOREHOLE DATA	**WELL DATA**	**INSPECTOR:**	H. Patel
Diameter (in):	**Completion:** 10/19/2020	**NORTHING:**	
Total Depth (ft.): 15	**Total Depth (ft.):**	**EASTING:**	
Sampler:	**Screen Length (ft.)/Slot (in):**	**GROUND ELEVATION:**	
Depth to Water (ft.):	**Depth to Water (ft.):**	**TOC ELEVATION:**	
Depth to Rock (ft.):	**Permit No.:**		

NOTES:

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
		SP-SC				<1	Dark yellowish brown (10YR 4/2), medium to fine SAND, little Silty Clay, little fine Gravel, moist.	
		SP-SM				<1	Moderate yellowish brown (10YR 5/4), medium to fine SAND, little Silt, trace fine Gravel, moist.	
1								
		SP-SM				<1	Moderate yellowish brown (10YR 5/4) to dark yellowish orange (10YR 6/6), medium to fine SAND, some Silt, wet.	
2								
3								
4								
5		SP-SM				<1	Moderate yellowish brown (10YR 5/4), medium to fine SAND, some Silt, moist.	
		SWG				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, trace fine Gravel, moist.	

Drilling Log

BORING NO.: MW-45S

WELL NO.: MW-45S

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
7		SWG				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, trace fine Gravel, moist.	
8		SP-SC				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little Silty Clay, trace fine Gravel, moist.	
9								
10		SP-SM				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, some Silt, trace fine Gravel, moist.	
		SP-SM				<1	Moderate yellowish brown (10YR 5/4), medium to fine SAND, some Silt, trace fine Gravel, saturated.	
11		SP-SC				<1	Moderate yellowish brown (10YR 5/4) to pale yellowish orange (10YR 8/6), medium to fine SAND, little Silty Clay, trace fine Gravel, moist.	
12								
13		SP-SM				<1	Pale yellowish orange (10YR 8/6), medium to fine SAND, trace Silt, damp.	
14								

Drilling Log

BORING NO.: MW-45S

WELL NO.: MW-45S

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
15		SP-SM				<1	Pale yellowish orange (10YR 8/6), medium to fine SAND, trace Silt, damp.	
							Total Depth of Boring 15 feet.	
16								
17								
18								
19								
20								
21								
22								

Drilling Log

BORING NO.: MW-45D

WELL NO.: MW-45D

CLIENT: New Jersey Department of Transportation	**PROJECT NO.:** LE2001811.004
PROJECT: Fernwood Maintenance Complex	**DATE STARTED:** 10/22/2020
DRILLING CONTRACTOR: Talon Drilling Company	**DATE FINISHED:** 10/22/2020
DRILLING METHOD: Direct Push	**DRILLER:** C. Jaworski

BOREHOLE DATA	WELL DATA	
Diameter (in):	**Completion:** 10/22/2020	**INSPECTOR:** H. Patel
Total Depth (ft.): 60	**Total Depth (ft.):**	**NORTHING:**
Sampler:	**Screen Length (ft.)/Slot (in):**	**EASTING:**
Depth to Water (ft.):	**Depth to Water (ft.):**	**GROUND ELEVATION:**
Depth to Rock (ft.):	**Permit No.:**	**TOC ELEVATION:**

NOTES:

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
0		SP-SC				<1	Dark yellowish brown (10YR 4/2), medium to fine SAND, little Silty CLAY, little fine GRAVEL, moist.	
		SP-SM				<1	Moderate yellowish brown (10YR 5/4), medium to fine SAND, little SILT, trace fine GRAVEL, moist.	
1								
2		SP-SM				<1	Moderate yellowish brown (10YR 5/4) to dark yellowish orange (10YR 6/6), medium to fine SAND, some SILT, wet.	
3								
4								
5		SP-SM				<1	Moderate yellowish brown (10YR 5/4), medium to fine SAND, some SILT, moist.	
		SWG				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, trace fine GRAVEL, moist.	

Drilling Log

BORING NO.: MW-45D

WELL NO.: MW-45D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
7		SWG				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, trace fine GRAVEL, moist.	
8		SP-SC				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, little Silty CLAY, trace fine GRAVEL, moist.	
9								
10		SP-SM				<1	Dark yellowish orange (10YR 6/6), medium to fine SAND, some SILT, trace fine GRAVEL, moist.	
		SP-SM				<1	Moderate yellowish brown (10YR 5/4), medium to fine SAND, some SILT, trace fine GRAVEL, saturated.	
11		SP-SC				<1	Moderate yellowish brown (10YR 5/4) to pale yellowish orange (10YR 8/6), medium to fine SAND, little Silty CLAY, trace fine GRAVEL, moist.	
12								
13		SP-SM				<1	Pale yellowish orange (10YR 8/6), medium to fine SAND, trace SILT, damp.	
14								

Drilling Log

BORING NO.: MW-45D

WELL NO.: MW-45D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
		SP-SM				<1	Pale yellowish orange (10YR 8/6), medium to fine SAND, trace SILT, damp.	
15						<1	Dark yellowish orange (10YR 6/6), WEATHERED SANDSTONE.	
16								
17								
18								
19								
20						<1	Dark yellowish orange (10YR 6/6), SANDSTONE.	
21								
22								

Drilling Log

BORING NO.: MW-45D

WELL NO.: MW-45D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
23						<1	Dark yellowish orange (10YR 6/6), SANDSTONE.	
24								
25						<1	Dark yellowish orange (10YR 6/6), SANDSTONE.	
26								
27								
28								
29								
30						<1	Dark yellowish orange (10YR 6/6), SANDSTONE.	

	Drilling Log Page 5 of 8	BORING NO.: MW-45D WELL NO.: MW-45D
CLIENT: New Jersey Department of Transportation		PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
31						<1	Dark yellowish orange (10YR 6/6), SANDSTONE.	
32								
33								
34								
35						<1	Dark yellowish orange (10YR 6/6), SANDSTONE.	
36								
37								
38								
39								

Drilling Log

BORING NO.: MW-45D

WELL NO.: MW-45D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
40						<1	Dark yellowish orange (10YR 6/6), SANDSTONE.	
						<1	Grayish orange (10YR 7/4), SANDSTONE.	
41								
42								
43								
44								
45						<1	Grayish orange (10YR 7/4), SANDSTONE.	
46								
47								

Drilling Log

BORING NO.: MW-45D

WELL NO.: MW-45D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
48						<1	Grayish orange (10YR 7/4), SANDSTONE.	
49								
50						<1	Grayish orange (10YR 7/4), SANDSTONE.	
51								
52								
53								
54								
55						<1	Grayish orange (10YR 7/4) to Dark yellowish orange (10YR 6/6), SANDSTONE.	

Drilling Log

BORING NO.: MW-45D

WELL NO.: MW-45D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
56						<1	Grayish orange (10YR 7/4) to Dark yellowish orange (10YR 6/6), SANDSTONE.	
57								
58								
59								
60							Total Depth of Boring 60 feet.	
61								
62								
63								
64								

Louis Berger

Drilling Log

BORING NO.: MW32

WELL NO.: MW32

CLIENT:	New Jersey Department of Transportation	**PROJECT NO.:**	2001811.004
PROJECT:	Fernwood Maintenance Complex	**DATE STARTED:**	4/10/2018
DRILLING CONTRACTOR:	Unitech Drilling	**DATE FINISHED:**	4/11/2018
DRILLING METHOD:	Hollow Stem Auger	**DRILLER:**	M. Shepard
BOREHOLE DATA		**INSPECTOR:**	J. Shulack
Diameter (in):	6"	**NORTHING:**	NA
Total Depth (ft.):	17	**EASTING:**	NA
Sampler:	Split Spoon/ Soil Cuttings	**GROUND ELEVATION:**	NA
Depth to Water (ft.):	10	**TOC ELEVATION:**	NA
Depth to Rock (ft.):	NA		
WELL DATA			
Completion:	Flushmount		
Total Depth (ft.):	15.18		
Screen Length (ft.)/Slot (in):	10/0.010		
Depth to Water (ft.):	7.92		
Permit No.:	E201802179		

NOTES: Pre-cleared with Hand Auger to 5 feet bgs; Lithology based on cuttings from 0 to 5 feet bgs. Asphalt saw-cut prior to hand-clearing.

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
			ASPHALT				<1	Black (N1), ASPHALT, dry.	**Asphalt**
			CL				<1	Moderate yellowish brown (10YR 5/4), Silty CLAY, little fine Sand, trace fine Gravel, moist.	**Silty Clay**
	2								
	4								
			CL				<1	Moderate yellowish brown (10YR 5/4), Silty CLAY, little fine Sand, little fine Gravel, moist.	
			CL				<1	Dark yellowish brown (10YR 4/2), Silty CLAY, little medium to fine Sand, trace fine Gravel. Overlain by 0.2' of Dark Yellowish Brown (10YR4/2) medium to fine GRAVEL, little Silty Clay., moist.	

Louis Berger

Drilling Log

BORING NO.: MW32

WELL NO.: MW32

CLIENT: New Jersey Department of Transportation

PROJECT NO.: 2001811.004

Well Construction	Depth (feet)	Lithology	USCS	SPT (blows/6 in)	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
	8							Dark yellowish brown (10YR 4/2), Silty CLAY, little medium to fine Sand, trace fine Gravel. Overlain by 0.2' of Dark Yellowish Brown (10YR4/2) medium to fine GRAVEL, little Silty Clay., moist.	
	10		CL				<1	Dark yellowish orange (10YR 6/6), Silty CLAY, little medium to fine Sand, little medium to fine Gravel, wet.	
			CL				<1	Moderate yellowish brown (10YR 5/4), Silty CLAY, little fine Sand, little fine Gravel, moist.	
	12								
	14								

Drilling Log

BORING NO.: MW-32D

WELL NO.: MW-32D

CLIENT: New Jersey Department of Transportation	**PROJECT NO.:** LE2001811.004
PROJECT: Fernwood Maintenance Complex	**DATE STARTED:** 10/13/2021
DRILLING CONTRACTOR: Talon Drilling Company	**DATE FINISHED:** 10/15/2021
DRILLING METHOD: Air-rotary	**DRILLER:** C. Jaworski

BOREHOLE DATA		**WELL DATA**		
Diameter (in):	6	**Completion:**		**INSPECTOR:** C. Calandrillo
Total Depth (ft.):	38	**Total Depth (ft.):**	38	**NORTHING:**
Sampler:	NA	**Screen Length (ft.)/Slot (in):**	10	**EASTING:**
Depth to Water (ft.):		**Depth to Water (ft.):**		**GROUND ELEVATION:**
Depth to Rock (ft.):	25	**Permit No.:**		**TOC ELEVATION:**

NOTES:

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
						<1	Black (N1), dry.	
1		SM-SC				<1	Moderate yellowish brown (10YR 5/4), Silty Clay, trace fine SAND, and GRAVEL, dry.	
2								
3								
4								
5		SM-SC				<1	Moderate yellowish brown (10YR 5/4), Silty Clay, trace fine SAND, and GRAVEL, moist.	

Drilling Log

BORING NO.: MW-32D

WELL NO.: MW-32D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
7		SM-SC				<1	Moderate yellowish brown (10YR 5/4), Silty Clay, trace fine SAND, and GRAVEL, moist.	
8								
9								
10		SM-SC				<1	Moderate yellowish brown (10YR 5/4), Silty Clay, trace fine SAND, and GRAVEL, moist.	
11								
12								
13								
14								

Drilling Log

BORING NO.: MW-32D

WELL NO.: MW-32D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
		SM-SC				<1	Moderate yellowish brown (10YR 5/4), Silty Clay, trace fine SAND, and GRAVEL, moist.	
15		SM-SC				<1	Moderate yellowish brown (10YR 5/4), Silty Clay, trace fine SAND, and Weathered rock, moist.	
16								
17								
18								
19								
20						<1	Dark yellowish brown (10YR 4/2), Rock (shale), moist.	
21								
22								

	Drilling Log Page 4 of 5	BORING NO.: MW-32D WELL NO.: MW-32D
CLIENT: New Jersey Department of Transportation		PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
23						<1	Dark yellowish brown (10YR 4/2), Rock (shale), moist.	
24								
25						<1	Dark yellowish brown (10YR 4/2), Rock (shale), moist.	
26								
27								
28								
29								
30						<1	Dark yellowish brown (10YR 4/2), Rock (shale), moist.	

Drilling Log

BORING NO.: MW-32D

WELL NO.: MW-32D

CLIENT: New Jersey Department of Transportation

PROJECT NO.: LE2001811.004

Depth (feet)	Lithology	USCS	Blow Counts	Sample Interval	Sample Recovery	PID Reading (ppm)	Description and Stratigraphy	Remarks
31						<1	Dark yellowish brown (10YR 4/2), Rock (shale), moist.	
32								
33								
34								
35						<1	Dark yellowish brown (10YR 4/2), Rock (shale), moist.	
36								
37								
38							Total Depth of Boring 38 feet.	
39								

Table 1

NJDOT

Fernwood Maintenance Facility and Office Complex

Ewing, New Jersey

Former Thiokol Area - Monitoring Well Analytical Data Summary - Nov. 2021

		Location ID	MW-41D	MW-42	MW-43R	MW-45S	MW-45D	MW-46S	MW-46D		MW-47S	MW-47D	MW-48S	MW-48D	MW-49	MW-50
		Sample ID	MW-41 D	MW-42	MW-43R	MW-45S	MW-45D	MW-46S	MW-46D A	MW-46D B	MW-47S	MW-47D	MW-48S	MW-48D	MW-49	MW-50
		Laboratory ID	AD27457-010	AD27482-008	AD27434-019	AD27457-014	AD27457-013	AD27457-002	AD27457-003	AD27457-004	AD27434-006	AD27434-007	AD27434-008	AD27434-009	AD27482-005	AD27482-004
		Sample Date	11/17/2021	11/18/2021	11/16/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/16/2021	11/16/2021	11/16/2021	11/16/2021	11/18/2021	11/18/2021
		Sample Depth (ft bgs)	24.02	7.50	15.72	11.82	34.23	6.09	24.50	29.50	27.82	36.36	21.98	55.43	12.00	11.00
Analyte	*GWQS*	*GWSL*														
SVOCs (continued)																
Benzyl Butyl Phthalate	100	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Biphenyl (Diphenyl)	400	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Chloroethoxy) Methane	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	7	NC	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bis(2-Chloroisopropyl) Ether	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Ethylhexyl) Phthalate	3	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Caprolactam	4000	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbazole	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Chrysene	5	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenzofuran	NC	NC	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U	0.68 U
Diethyl Phthalate	6000	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dimethyl Phthalate	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Di-N-Butyl Phthalate	700	NC	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Di-N-Octylphthalate	100	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Fluoranthene	300	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Fluorene	300	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Hexachlorocyclopentadiene	40	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Isophorone	40	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	300	300	0.5 U	**0.82**	0.5 U	0.5 U	0.5 U	0.5 U	**0.77**	**1.1**	0.5 U	0.5 U	0.5 U	0.5 U	**2.1**	**2.3**
Nitrobenzene	6	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**2.2**	**2.3**
N-Nitrosodi-N-Propylamine	10	NC	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
N-Nitrosodiphenylamine	10	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene	NC	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenol	2000	NC	2 U	**2.9**	2 U	2 U	2 U	2 U	**5.3**	**4.9**	2 U	2 U	2 U	2 U	**44**	**24**
Pyrene	200	NC	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Sum of Non Target SVOCs	NC	NC	**34 J**	ND	ND	**54 J**	**56 J**	**74 J**	**260 J**	**380 J**	ND	ND	ND	**11 J**	ND	**12 J**
SVOCs (SIMs)																
4,6-Dinitro-2-Methylphenol	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(A)Anthracene	0.1	NC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.032**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(A)Pyrene	0.1	NC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.025**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(B)Fluoranthene	0.2	NC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	**0.043**	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(K)Fluoranthene	0.5	NC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dibenz(A,H)Anthracene	0.3	NC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Hexachlorobenzene	0.02	NC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Hexachlorobutadiene	1	NC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Hexachloroethane	7	NC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Indeno(1,2,3-C,D)Pyrene	0.2	NC	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
N-Nitrosodimethylamine	NC	NC	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Pentachlorophenol	0.3	NC	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

Notes:

- All results are presented in ug/l (ppb)
- GWQS = New Jersey Groundwater Quality Standard, June 2020
- GWSL = New Jersey Vapor Intrusion Guidance Ground Water Screening Levels, May 202
- NA = Not Analyzed
- NC = No Criteria
- ND = Non-Detect
- J = Compound detected below the quantitation limit
- U = Compound was not detected
- **Bold values indicated positive detections**
- **Shaded values exceed the GWQS**
- **Shaded values exceed both the GWQS and GWSL**

ATTACHMENT 2
AREA 2: VEHICLE WASH AREA

CURB RAMP
DET. WARNING (TYP)
CONNECT TO EXISTING CL FENCE
MEET CUT EDGE
6" SWL
6' HIGH CL FENCE
STONE SURFACE
DO NOT ENTER
6' WIDE CONC. SIDEWALK
CURB RAMP
ONE WAY
LEFT LANE FOR WASH BAY ONLY
NO LEFT TURN
9"x18" CONCRETE VERTICAL CURB (TYP)
4" SWL (TYP)
6" SWL
MEET MILLED EDGE
24" WHITE STOP LINE
BY-PASS LANE
CONCRETE DIVIDER ISLAND W/SLOPING CURB
DBLE 4" SYL
PTD. WH. TRAF. MARKING (TYP)
VAR. TH. HMA 9.5M64 OVERLAY 2" MIN.
(58 SPACES TOTAL)
DET. WARNING (TYP) RAMP
4" SWL (TYP)
9"x18" CONCRETE VERTICAL CURB (TYP)
6' WIDE CONC. SIDEWALK
TRANSFORMER
CURB RAMP
24" WHITE STOP LINE
VAR. TH. HMA 9.5M64 OVERLAY, 2" MIN.
CURB RAMP
ONE-STORY MASONRY BUILDING "WASHBAY"
MEET MILLED EDGE
6' CL FENCE
CONC. APRON-SEE BLDG PLANS
CARD READER
20' WIDE GATE
6' HIGH CL FENCE
5' WIDE CONC. SIDEWALK
REPAIR PAVEMENT:
8" DGA BASE COURSE
4" HMA 25M64 BASE
2" HMA 9.5M64 SURFACE
REPAIR UTILITY TRENCH (TYP):
8" DGA BASE COURSE
4" HMA 25M64 BASE
2" HMA 9.5M64 SURFACE

Approximate Soil Sample Location
Approximate Test Pit Location
Approximate Extent of Excavation
Wood Debris
Metal Debris/ Tar/ Petroleum/ Concrete
Black Beauty

Image courtesy of:
Microsoft Corp, 2018;
DigitalGlobe, 2018;
CNES Distribution Airbus DS, 2018

Coordinate System:
NAD 1983 StatePlane New Jersey
FIPS 2900 Feet

September 2018

Figure 19
Debris and Excavation Extent AOC 34
NJDOT - Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey

Louis Berger

0 20 40 80 Feet

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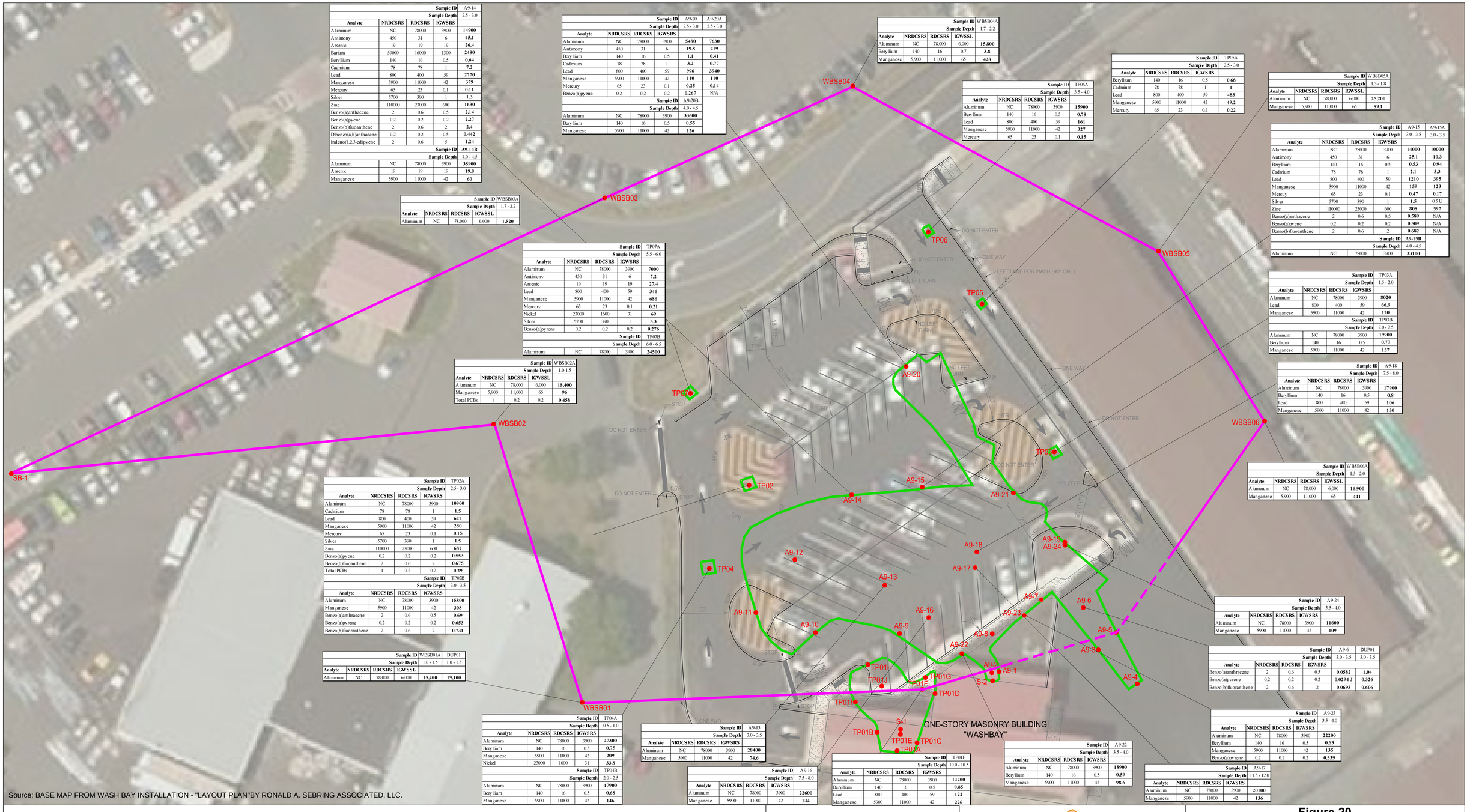
I:\GIS_SERVICES\NJ\NJDOT\Fernwood\CADD\Figure 1 Fernwood Debris and Excavation Extent – 2018 Update.dwg Sep 17, 2018



			Sample ID	A9-14
			Sample Depth	2.5 - 3.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**14900**
Antimony	450	31	6	**45.1**
Arsenic	19	19	19	**26.4**
Barium	59000	16000	1300	**2480**
Beryllium	140	16	0.5	**0.64**
Cadmium	78	78	1	**7.2**
Lead	800	400	59	**2770**
Manganese	5900	11000	42	**379**
Mercury	65	23	0.1	**0.11**
Silver	5700	390	1	**1.3**
Zinc	110000	23000	600	**1630**
Benzo(a)anthracene	2	0.6	0.5	**2.14**
Benzo(a)pyrene	0.2	0.2	0.2	**2.27**
Benzo(b)fluoranthene	2	0.6	2	**2.4**
Dibenz(a,h)anthracene	0.2	0.2	0.5	**0.442**
Indeno(1,2,3-cd)pyrene	2	0.6	5	**1.24**
			Sample ID	**A9-14B**
			Sample Depth	4.0 - 4.5
Aluminum	NC	78000	3900	**38900**
Arsenic	19	19	19	**19.8**
Manganese	5900	11000	42	**60**

			Sample ID	A9-20	A9-20A
			Sample Depth	2.5 - 3.0	2.5 - 3.0
Analyte	NRDCSRS	RDCSRS	IGWSRS		
Aluminum	NC	78000	3900	**5480**	**7630**
Antimony	450	31	6	**19.8**	**219**
Beryllium	140	16	0.5	**1.1**	**0.41**
Cadmium	78	78	1	**3.2**	**0.77**
Lead	800	400	59	**996**	**3940**
Manganese	5900	11000	42	**110**	**110**
Mercury	65	23	0.1	**0.25**	**0.14**
Benzo(a)pyrene	0.2	0.2	0.2	**0.267**	N/A
			Sample ID	A9-20B	
			Sample Depth	4.0 - 4.5	
Aluminum	NC	78000	3900	**33600**	
Beryllium	140	16	0.5	**0.55**	
Manganese	5900	11000	42	**126**	

			Sample ID	WBSB04A
			Sample Depth	1.7 - 2.2
Analyte	NRDCSRS	RDCSRS	IGWSSL	
Aluminum	NC	78,000	6,000	**15,800**
Beryllium	140	16	0.7	**3.8**
Manganese	5,900	11,000	65	**428**

			Sample ID	TP06A
			Sample Depth	3.5 - 4.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**15900**
Beryllium	140	16	0.5	**0.78**
Lead	800	400	59	**161**
Manganese	5900	11000	42	**327**
Mercury	65	23	0.1	**0.15**

			Sample ID	TP05A
			Sample Depth	2.5 - 3.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Beryllium	140	16	0.5	**0.68**
Cadmium	78	78	1	**1**
Lead	800	400	59	**483**
Manganese	5900	11000	42	**49.2**
Mercury	65	23	0.1	**0.22**

			Sample ID	WBSB05A
			Sample Depth	1.3 - 1.8
Analyte	NRDCSRS	RDCSRS	IGWSSL	
Aluminum	NC	78,000	6,000	**25,200**
Manganese	5,900	11,000	65	**89.1**

			Sample ID	A9-15	A9-15A
			Sample Depth	3.0 - 3.5	3.0 - 3.5
Analyte	NRDCSRS	RDCSRS	IGWSRS		
Aluminum	NC	78000	3900	**14000**	**10000**
Antimony	450	31	6	**25.1**	**10.3**
Beryllium	140	16	0.5	**0.53**	**0.94**
Cadmium	78	78	1	**2.1**	**3.3**
Lead	800	400	59	**1210**	**395**
Manganese	5900	11000	42	**159**	**123**
Mercury	65	23	0.1	**0.47**	**0.17**
Silver	5700	390	1	**1.5**	0.5 U
Zinc	110000	23000	600	**808**	**597**
Benzo(a)anthracene	2	0.6	0.5	**0.589**	N/A
Benzo(a)pyrene	0.2	0.2	0.2	**0.509**	N/A
Benzo(b)fluoranthene	2	0.6	2	**0.682**	N/A
			Sample ID	**A9-15B**	
			Sample Depth	4.0 - 4.5	
Aluminum	NC	78000	3900	**33100**	

			Sample ID	TP03A
			Sample Depth	1.5 - 2.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**8020**
Lead	800	400	59	**66.9**
Manganese	5900	11000	42	**120**
			Sample ID	TP03B
			Sample Depth	2.0 - 2.5
Aluminum	NC	78000	3900	**19900**
Beryllium	140	16	0.5	**0.77**
Manganese	5900	11000	42	**137**

			Sample ID	A9-18
			Sample Depth	7.5 - 8.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**17900**
Beryllium	140	16	0.5	**0.8**
Lead	800	400	59	**106**
Manganese	5900	11000	42	**130**

			Sample ID	WBSB06A
			Sample Depth	1.5 - 2.0
Analyte	NRDCSRS	RDCSRS	IGWSSL	
Aluminum	NC	78,000	6,000	**16,900**
Manganese	5,900	11,000	65	**441**

			Sample ID	WBSB03A
			Sample Depth	1.7 - 2.2
Analyte	NRDCSRS	RDCSRS	IGWSSL	
Aluminum	NC	78,000	6,000	**1,520**

			Sample ID	TP07A
			Sample Depth	5.5 - 6.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**7000**
Antimony	450	31	6	**7.2**
Arsenic	19	19	19	**27.4**
Lead	800	400	59	**346**
Manganese	5900	11000	42	**686**
Mercury	65	23	0.1	**0.21**
Nickel	23000	1600	31	**69**
Silver	5700	390	1	**3.3**
Benzo(a)pyrene	0.2	0.2	0.2	**0.276**
			Sample ID	TP07B
			Sample Depth	6.0 - 6.5
Aluminum	NC	78000	3900	**24500**

			Sample ID	WBSB02A
			Sample Depth	1.0-1.5
Analyte	NRDCSRS	RDCSRS	IGWSSL	
Aluminum	NC	78,000	6,000	**18,400**
Manganese	5,900	11,000	65	**96**
Total PCBs	1	0.2	0.2	**0.458**

			Sample ID	TP02A
			Sample Depth	2.5 - 3.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**10900**
Cadmium	78	78	1	**1.5**
Lead	800	400	59	**627**
Manganese	5900	11000	42	**280**
Mercury	65	23	0.1	**0.15**
Silver	5700	390	1	**1.5**
Zinc	110000	23000	600	**682**
Benzo(a)pyrene	0.2	0.2	0.2	**0.553**
Benzo(b)fluoranthene	2	0.6	2	**0.675**
Total PCBs	1	0.2	0.2	**0.29**
			Sample ID	TP02B
			Sample Depth	3.0 - 3.5
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**15800**
Manganese	5900	11000	42	**308**
Benzo(a)anthracene	2	0.6	0.5	**0.69**
Benzo(a)pyrene	0.2	0.2	0.2	**0.653**
Benzo(b)fluoranthene	2	0.6	2	**0.731**

			Sample ID	WBSB01A	DUP01
			Sample Depth	1.0 - 1.5	1.0 - 1.5
Analyte	NRDCSRS	RDCSRS	IGWSSL		
Aluminum	NC	78,000	6,000	**15,400**	**19,100**

			Sample ID	TP04A
			Sample Depth	0.5 - 1.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**27300**
Beryllium	140	16	0.5	**0.75**
Manganese	5900	11000	42	**209**
Nickel	23000	1600	31	**33.8**
			Sample ID	TP04B
			Sample Depth	2.0 - 2.5
Aluminum	NC	78000	3900	**17900**
Beryllium	140	16	0.5	**0.68**
Manganese	5900	11000	42	**146**

			Sample ID	A9-13
			Sample Depth	3.0 - 3.5
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**28400**
Manganese	5900	11000	42	**74.6**

			Sample ID	A9-16
			Sample Depth	7.5 - 8.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**22600**
Manganese	5900	11000	42	**134**

			Sample ID	TP01F
			Sample Depth	10.0 - 10.5
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**14200**
Beryllium	140	16	0.5	**0.85**
Lead	800	400	59	**122**
Manganese	5900	11000	42	**226**

			Sample ID	A9-22
			Sample Depth	3.5 - 4.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**18900**
Beryllium	140	16	0.5	**0.59**
Manganese	5900	11000	42	**98.6**

			Sample ID	A9-24
			Sample Depth	3.5 - 4.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**11600**
Manganese	5900	11000	42	**109**

			Sample ID	A9-6	DUP01
			Sample Depth	3.0 - 3.5	3.0 - 3.5
Analyte	NRDCSRS	RDCSRS	IGWSRS		
Benzo(a)anthracene	2	0.6	0.5	**0.0582**	**1.04**
Benzo(a)pyrene	0.2	0.2	0.2	**0.0294 J**	**0.326**
Benzo(b)fluoranthene	2	0.6	2	**0.0693**	**0.606**

			Sample ID	A9-23
			Sample Depth	3.5 - 4.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**22200**
Beryllium	140	16	0.5	**0.63**
Manganese	5900	11000	42	**135**
Benzo(a)pyrene	0.2	0.2	0.2	**0.339**

			Sample ID	A9-17
			Sample Depth	11.5 - 12.0
Analyte	NRDCSRS	RDCSRS	IGWSRS	
Aluminum	NC	78000	3900	**20100**
Manganese	5900	11000	42	**136**

Source: BASE MAP FROM WASH BAY INSTALLATION - "LAYOUT PLAN"BY RONALD A. SEBRING ASSOCIATED, LLC.

Approximate Soil Sample Location

Approximate Test Pit Location

Approximate Extent of Excavation

Approximate Extent of Delineation

Notes:
- All results are dry weight and are reported in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- IGWSRS = Default Impact to Ground Water Soil Remediation Standard is from the NJDEP's "Soil-Water Partition Equation Guidance Document" dated June 2008 (revised December 2008)
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit
- N/A = Not Analyzed
- J = Estimated value
- **Bolded values indicate positive detections**
- **Bolded and Shaded value exceeds one or more of SRS**

Image courtesy of:
Microsoft Corp, 2018;
DigitalGlobe, 2018;
CNES Distribution Airbus DS, 2018

Coordinate System:
NAD 1983 StatePlane New Jersey
FIPS 2900 Feet

September 2018

Figure 20
EPH Results and Post Excavation Soil Exceedances AOC 34
NJDOT - Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey

Louis Berger

0 20 40 80 Feet

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C:\Users\skamel\Desktop\Figure 2 Fernwood Excavation and Post Sample Exceedances- 2018 Update.dwg Sep 28, 2018

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
EPH Soil Analytical Results - Vehicle Wash Area (AOC 34)

			Location ID	TP01											TP02		TP03				TP04	
			Sample ID	TP01A	TP01B	TP01C	TP01D	TP01E	TP01F	TP01G	TP01H	TP01I	TP01J	DUP01	TP02A	TP02B	TP03A	TP03B	TP03	DUP01	TP04A	TP04B
			Lab ID	JB42805-1	JB42805-2	JB42849-1	JB42849-2	JB42849-3	JB43224-1	JB43224-2	JB43224-5	JB43224-3	JB43224-4	JB43224-6	JB44970-1	JB44970-2	JB45917-1	JB45917-2	JB47515-3	JB47515-11	JB45917-3	JB45917-4
			Sample Depth (ft, bgs)	11.5 - 12.0	11.5 - 12.0	11.5 - 12.0	8.5 - 9.0	11.5 - 12.0	10.0 - 10.5	5.5 - 6.0	5.5 - 6.0	5.5 - 6.0	7.5 - 8.0	3.0 - 3.5	2.5 - 3.0	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	3.0 - 3.5	3.0 - 3.5	0.5 - 1.0	2.0 - 2.5
			Sample Date	7/22/2013	7/22/2013	7/23/2013	7/23/2013	7/23/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	8/16/2013	8/16/2013	8/28/2013	8/28/2013	9/16/2013	9/16/2013	8/28/2013	8/28/2013
EPH	**NRDCSRS**	**RDCSRS**	**IGWSRS**																			
EPH (C9-C28)	NC	NC	NC	8.2 U	8.1 U	7.7 U	7.6 U	7.8 U	**417**	7.3 U	9.1 U	7.6 U	7.6 U	7.7 U	**428**	7.1 U	**6420**	6.9 U	**1470**	**1350**	**10100**	**305**
EPH (>C28-C40)	NC	NC	NC	8.2 U	8.1 U	7.7 U	7.6 U	7.8 U	**306**	7.3 U	9.1 U	7.6 U	7.6 U	7.7 U	**312**	7.1 U	**5410**	6.9 U	**2550**	**2480**	**1680**	**276**
Total EPH (C9-C40)	54000	5100	NC	8.2 U	8.1 U	7.7 U	7.6 U	7.8 U	**723**	7.3 U	9.1 U	7.6 U	7.6 U	7.7 U	**740**	7.1 U	**11800**	6.9 U	**4020**	**3830**	**11700**	**581**

			Location ID	TP05		TP06		TP07		A9-1	A9-2	A9-3	A9-4	A9-5	A9-6			A9-7	A9-8	A9-9	A9-10	A9-11
			Sample ID	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-1	A9-2	A9-3	A9-4	A9-5	A9-6	DUP01	A9-6(2)	A9-7	A9-8	A9-9	A9-10	A9-11
			Lab ID	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44266-1	JB44266-2	JB44712-1	JB44712-2	JB44712-3	JB44712-4	JB44712-5	JB46022-1	JB44712-6	JB44712-7	JB44970-3	JB44970-4	JB44970-5
			Sample Depth (ft, bgs)	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	4.0 - 4.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	8.0 - 8.5	8.0 - 8.5	2.5 - 3.0	1.5 - 2.0	1.0 - 1.5
			Sample Date	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/8/2013	8/8/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/29/2013	8/14/2013	8/14/2013	8/16/2013	8/16/2013	8/16/2013
EPH	**NRDCSRS**	**RDCSRS**	**IGWSRS**																			
EPH (C9-C28)	NC	NC	NC	**87.3**	7.7 U	**634**	7.6 U	**223**	7.3 U	7.2 U	7.5 U	8.1 U	7.8 U	7.7 U	**94.5**	**222**	7.6 U	8.2 U	8.1 U	7.8 U	7.7 U	**33.7**
EPH (>C28-C40)	NC	NC	NC	**51.6**	7.7 U	**764**	7.6 U	**192**	7.3 U	7.2 U	7.5 U	8.1 U	7.8 U	7.7 U	**28.7**	**111**	7.6 U	8.2 U	8.1 U	7.8 U	7.7 U	7.7 U
Total EPH (C9-C40)	54000	5100	NC	**139**	7.7 U	**1400**	7.6 U	**415**	7.3 U	7.2 U	7.5 U	8.1 U	7.8 U	7.7 U	**123**	**333**	7.6 U	8.2 U	8.1 U	7.8 U	7.7 U	**33.7**

			Location ID	A9-12	A9-13	A9-14		A9-15		A9-16	A9-17	A9-18	A9-19	A9-20			A9-22	A9-23	A9-24
			Sample ID	A9-12	A9-13	A9-14	A9-14B	A9-15	A9-15B	A9-16	A9-17	A9-18	A9-19	A9-20	A9-20A	A9-20B	A9-22	A9-23	A9-24
			Lab ID	JB44970-6	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45722-4	JB45779-1	JB47515-9	JB47515-10	JB46022-9	JB46022-10	JB46022-11
			Sample Depth (ft, bgs)	3.0 - 3.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	5.5 - 6.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
			Sample Date	8/16/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013
EPH	**NRDCSRS**	**RDCSRS**	**IGWSRS**																
EPH (C9-C28)	NC	NC	NC	**20.1**	**809**	**248**	7.8 U	**516**	8.5 U	**66.5**	7.4 U	8.1 U	6.9 U	**179**	**254**	7 U	7.4 U	**35**	7.5 U
EPH (>C28-C40)	NC	NC	NC	7.7 U	**573**	**193**	7.8 U	**303**	8.5 U	7.5 U	7.4 U	8.1 U	6.9 U	**167**	**239**	7 U	7.4 U	**23.4**	7.5 U
Total EPH (C9-C40)	54000	5100	NC	**20.1**	**1380**	**440**	7.8 U	**819**	8.5 U	**66.5**	7.4 U	8.1 U	6.9 U	**346**	**493**	7 U	7.4 U	**58.4**	7.5 U

Notes:
- All results are dry weight and are reported in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- IGWSRS = Default Impact to Ground Water Soil Remediation Standard is from the NJDEP's "Soil-Water Partition Equation Guidance Document" dated June 2008 (revised December 2008)
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit
- J = Estimated value
- **Bolded values indicate positive detections**
- **Bolded and Shaded meets or exceeds one of SRS**

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

			Location ID	TP01	TP02			TP03		TP04		TP05		TP06		TP07		A9-3	A9-4	A9-5
			Sample ID	TP01F	TP02A	TP02B	TP02B	TP03A	TP03B	TP04A	TP04B	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-3	A9-4	A9-5
			Lab ID	JB43224-1	JB44970-1	JB44970-2	JB47515-2	JB45917-1	JB45917-2	JB45917-3	JB45917-4	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44712-1	JB44712-2	JB44712-3
			Sample Depth (ft , bgs)	10 - 10.5	2.5 - 3.0	3.0 - 3.5	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	0.5 - 1.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5
			Sample Date	7/26/2013	8/16/2013	8/16/2013	9/16/2013	8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/14/2013	8/14/2013	8/14/2013
Metals	**NRDCSRS**	**DCSRS**	**IGWSRS**																	
Aluminum	NC	78000	3900	**14200**	**10900**	**15800**	N/A	**8020**	**19900**	**27300**	**17900**	**3790**	N/A	**15900**	N/A	**7000**	**24500**	N/A	N/A	N/A
Antimony	450	31	6	**3.5**	**3.8**	2.4 U	N/A	2.1 U	2.5 U	2.2 U	2.3 U	**5.1**	N/A	2 U	N/A	**7.2**	2.2 U	N/A	N/A	N/A
Arsenic	19	19	19	**9.8**	**10.3**	**5.5**	N/A	**4.5**	**8.2**	**7.7**	**6.1**	**7.9**	N/A	**10.5**	N/A	**27.4**	**5.4**	N/A	N/A	N/A
Barium	59000	16000	1300	**90.1**	**280**	**44.5**	N/A	**90.9**	**41.7**	**79.1**	**37.6**	**430**	N/A	**114**	N/A	**156**	**25.4**	N/A	N/A	N/A
Beryllium	140	16	0.5	**0.85**	**0.49**	0.24 U	N/A	**0.4**	**0.77**	**0.75**	**0.68**	**0.68**	N/A	**0.78**	N/A	0.99 U	**0.28**	N/A	N/A	N/A
Cadmium	78	78	1	0.59 U	**1.5**	0.59 U	N/A	0.53 U	0.62 U	0.56 U	0.57 U	**1**	0.61 U	**0.72**	N/A	2.5 U	0.56 U	N/A	N/A	N/A
Calcium	NC	NC	NC	**3920**	**11400**	**938**	N/A	**11300**	**704**	560 U	570 U	**1470**	N/A	**1480**	N/A	**3160**	**957**	N/A	N/A	N/A
Chromium	NC	NC	NC	**22.9**	**36.1**	**23.8**	N/A	**8.1**	**28**	**7**	**26.7**	**7.2**	N/A	**21.6**	N/A	**28.6**	**28.1**	N/A	N/A	N/A
Cobalt	590	1600	59	**8.3**	**8.9**	**6.6**	N/A	**6.3**	**6.6**	**11.3**	5.7 U	**5.3**	N/A	**7.4**	N/A	**11.2**	5.6 U	N/A	N/A	N/A
Copper	45000	3100	7300	**96.2**	**127**	**10.2**	N/A	**42.1**	**12.2**	**17.9**	**11.5**	**48.5**	N/A	**66.2**	N/A	**137**	**8.3**	N/A	N/A	N/A
Cyanide	680	47	13	N/A	N/A	N/A	N/A	0.24 U	0.29 U	0.26 U	0.26 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Iron	NC	NC	NC	**21500**	**25200**	**19400**	N/A	**14000**	**26400**	**11200**	**24300**	**9510**	N/A	**19900**	N/A	**154000**	**19200**	N/A	N/A	N/A
Lead	800	400	90	**122**	**627**	**13.7**	N/A	**66.9**	**10.6**	**11.8**	**10.4**	**483**	**10.7**	**161**	**10.1**	**346**	**9**	N/A	N/A	N/A
Magnesium	NC	NC	NC	**2440**	**2750**	**2290**	N/A	**2180**	**2240**	**1610**	**2240**	500 U	N/A	**1990**	N/A	**861**	**695**	N/A	N/A	N/A
Manganese	5900	11000	42	**226**	**280**	**308**	N/A	**120**	**137**	**209**	**146**	**49.2**	N/A	**327**	N/A	**686**	**27.5**	N/A	N/A	N/A
Mercury	65	23	0.1	**0.037**	**0.15**	0.036 U	N/A	**0.053**	0.038 U	0.036 U	0.036 U	**0.22**	N/A	**0.15**	N/A	**0.21**	**0.049**	N/A	N/A	N/A
Nickel	23000	1600	31	**16.8**	**17**	**13.1**	N/A	**10.9**	**12.9**	**33.8**	**12.5**	**14.1**	**14**	**15.4**	N/A	**69**	**8.1**	N/A	N/A	N/A
Potassium	NC	NC	NC	1200 U	1200 U	1200 U	N/A	1100 U	1200 U	1100 U	1100 U	990 U	N/A	1000 U	N/A	990 U	1100 U	N/A	N/A	N/A
Selenium	5700	390	7	2.3 U	2.4 U	2.4 U	N/A	2.1 U	2.5 U	2.2 U	2.3 U	2 U	N/A	2 U	N/A	9.9 U	2.2 U	N/A	N/A	N/A
Silver	5700	390	1	0.59 U	**1.5**	0.59 U	N/A	0.53 U	0.62 U	0.56 U	0.57 U	**0.5**	N/A	**0.96**	N/A	**3.3**	0.56 U	N/A	N/A	N/A
Sodium	NC	NC	NC	1200 U	1200 U	1200 U	N/A	1100 U	1200 U	1100 U	**1390**	990 U	N/A	1000 U	N/A	990 U	1100 U	N/A	N/A	N/A
Thallium	79	5	3	1.2 U	1.2 U	1.2 U	N/A	1.1 U	1.2 U	1.1 U	1.1 U	0.99 U	N/A	1 U	N/A	5 U	1.1 U	N/A	N/A	N/A
Vanadium	1100	78	NC	**35**	**49.1**	**35.7**	N/A	**54.8**	**43.3**	**10**	**35.9**	**14**	N/A	**33.9**	N/A	**22.4**	**37.1**	N/A	N/A	N/A
Zinc	110000	23000	600	**197**	**682**	**35.4**	N/A	**61**	**32.1**	**53.9**	**36.2**	**340**	N/A	**209**	N/A	**481**	**19.9**	N/A	N/A	N/A
PCBs																				
Aroclor 1016	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1221	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1232	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1242	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1248	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1254	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1260	NC	NC	NC	0.038 U	**0.29**	N/A	**0.105**	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1268	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Aroclor 1262	NC	NC	NC	0.038 U	0.037 U	N/A	0.034 U	0.033 U	0.036 U	0.036 U	0.038 U	0.043 U	N/A	0.039 U	N/A	0.042 U	N/A	N/A	N/A	N/A
Total PCBs	1	0.2	0.2	ND	**0.29**	N/A	**0.105**	ND	ND	ND	ND	ND	N/A	ND	N/A	ND	N/A	N/A	N/A	N/A

Notes:
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- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantitation limit
- J = Estimated value
- N/A = Not Analyzed
- **Bolded values indicate positive detections**
- **Bolded and Shaded exceeds one or more of SRS**

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

			Location ID	4			A9-13	A9-14		A9-15			A9-16	A9-17	A9-18	A9-20			A9-21	A9-22	A9-23	A9-24
			Sample ID	A9-6	DUP01	A9-6(2)	A9-13	A9-14	A9-14B	A9-15	A9-15A	A9-15B	A9-16	A9-17	A9-18	A9-20	A9-20A	A9-20B	A9-21	A9-22	A9-23	A9-24
			Lab ID	JB44712-4	JB44712-5	JB46022-1	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-7	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45779-1	JB47515-9	JB47515-10	JB45779-2	JB46022-9	JB46022-10	JB46022-11
			Sample Depth (ft , bgs)	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	2.5 - 3.0	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
			Sample Date	8/14/2013	8/14/2013	8/29/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/27/2013	8/29/2013	8/29/2013	8/29/2013
Metals	**NRDCSRS**	**DCSRS**	**IGWSRS**																			
Aluminum	NC	78000	3900	N/A	N/A	N/A	**28400**	**14900**	**38900**	**14000**	**10000**	**33100**	**22600**	**20100**	**17900**	**5480**	**7630**	**33600**	N/A	**18900**	**22200**	**11600**
Antimony	450	31	6	N/A	N/A	N/A	2.3 U	**45.1**	2.2 U	**25.1**	**10.3**	2.1 U	2.2 U	2.4 U	2.5 U	**19.8**	**219**	2.3 U	N/A	2.3 U	2.3 U	2.3 U
Arsenic	19	19	19	N/A	N/A	N/A	**8.1**	**26.4**	**19.8**	**7.8**	**13.5**	**7.5**	**12.4**	**7.4**	**7**	**13.9**	**13.8**	**14.5**	N/A	**6.7**	**7.2**	**6.2**
Barium	59000	16000	1300	N/A	N/A	N/A	**71.8**	**2480**	**42.8**	**443**	**523**	**44.7**	**127**	**132**	**80**	**268**	**231**	**51.3**	N/A	**36.7**	**49.2**	**36.2**
Beryllium	140	16	0.5	N/A	N/A	N/A	**0.45**	**0.64**	**0.38**	**0.53**	**0.94**	**0.28**	**0.31**	**0.32**	**0.8**	**1.1**	**0.41**	**0.55**	N/A	**0.59**	**0.63**	0.23 U
Cadmium	78	78	1	N/A	N/A	N/A	0.57 U	**7.2**	0.56 U	**2.1**	**3.3**	0.52 U	0.56 U	**0.64**	0.63 U	**3.2**	**0.77**	0.58 U	N/A	0.57 U	**0.7**	0.58 U
Calcium	NC	NC	NC	N/A	N/A	N/A	**863**	**5640**	**832**	**2640**	**5130**	**2400**	**1120**	**663**	630 U	**1360**	**2210**	**1240**	N/A	**812**	**1260**	N/A
Chromium	NC	NC	NC	N/A	N/A	N/A	**34.4**	**65.5**	**43.4**	**35.8**	**20.4**	**40.1**	**28.2**	**14.7**	**24.6**	**15.3**	**13.9**	**50**	N/A	**25**	**26.1**	**18.2**
Cobalt	590	1600	59	N/A	N/A	N/A	0.57 U	**9.8**	5.6 U	**7.7**	**7.5**	5.2 U	5.6 U	5.9 U	**8.3**	**6.2**	**6.3**	**6.2**	N/A	0.57 U	0.58 U	0.58 U
Copper	45000	3100	7300	N/A	N/A	N/A	**14.3**	**282**	**14.9**	**520**	**179**	**25.3**	**19**	**28.6**	**21.3**	**90.5**	**119**	**20.1**	N/A	**11.4**	**168**	**11.1**
Cyanide	680	47	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.28 U	N/A	N/A	0.28 U	N/A	N/A	N/A
Iron	NC	NC	NC	N/A	N/A	N/A	**24600**	**46800**	**34500**	**24000**	**15800**	**24000**	**29400**	**28200**	**42200**	**32300**	**20700**	**39400**	N/A	**22600**	**24700**	**16900**
Lead	800	400	90	N/A	N/A	N/A	**9.1**	**2770**	**10.7**	**1210**	**395**	**26.4**	**48.9**	**58.2**	**106**	**996**	**3940**	**20.8**	N/A	**10.5**	**29.3**	**9.5**
Magnesium	NC	NC	NC	N/A	N/A	N/A	**809**	**1400**	**1080**	**2170**	**1170**	**1860**	**1280**	**787**	**672**	610 U	**900**	**1420**	N/A	**1450**	**1640**	**1840**
Manganese	5900	11000	42	N/A	N/A	N/A	**74.6**	**379**	**60**	**159**	**123**	**39.9**	**134**	**136**	**130**	**110**	**110**	**126**	N/A	**98.6**	**135**	**109**
Mercury	65	23	0.1	N/A	N/A	N/A	**0.042**	**0.11**	**0.059**	**0.47**	**0.17**	0.04 U	**0.042**	0.038 U	0.037 U	**0.25**	**0.14**	**0.038**	**0.041**	**0.066**	**0.08**	0.034 U
Nickel	23000	1600	31	N/A	N/A	N/A	**9.4**	**21.6**	**13.7**	**22.2**	**18.3**	**9.5**	**10.9**	**14.7**	**20.2**	**16.1**	**16.7**	**14.2**	N/A	**10.4**	**12.7**	**11.4**
Potassium	NC	NC	NC	N/A	N/A	N/A	1100 U	1200 U	1100 U	1100 U	1000 U	**1000**	1100 U	1200 U	1300 U	1200 U	1100 U	1200 U	N/A	1100 U	1200 U	1200 U
Selenium	5700	390	7	N/A	N/A	N/A	2.3 U	2.4 U	2.2 U	2.2 U	**2.3**	2.1 U	2.2 U	2.4 U	2.5 U	2.4 U	2.3 U	**2.3**	N/A	2.3 U	2.3 U	2.3 U
Silver	5700	390	1	N/A	N/A	N/A	**0.92**	**1.3**	0.56 U	**1.5**	0.5 U	0.52 U	0.56 U	0.59 U	0.63 U	0.61 U	**0.95**	0.58 U	N/A	**0.88**	**0.96**	0.58 U
Sodium	NC	NC	NC	N/A	N/A	N/A	**1630**	1200 U	1100 U	1100 U	1000 U	1000 U	1100 U	1200 U	1300 U	1200 U	1100 U	1200 U	N/A	1100 U	1200 U	1200 U
Thallium	79	5	3	N/A	N/A	N/A	1.1 U	1.2 U	1.1 U	1.1 U	1 U	1 U	1.1 U	1.2 U	1.3 U	1.2 U	1.1 U	1.2 U	N/A	1.1 U	1.2 U	1.2 U
Vanadium	1100	78	NC	N/A	N/A	N/A	**44**	**36.4**	**52.8**	**39.6**	**27.3**	**59**	**39.2**	**27.1**	**23.7**	**19.9**	**19.3**	**52.8**	N/A	**35.6**	**39.5**	**27.9**
Zinc	110000	23000	600	N/A	N/A	N/A	**23.9**	**1630**	**32.6**	**808**	**597**	**29**	**63.3**	**458**	**258**	**288**	**381**	**30.2**	N/A	**23.7**	**112**	**30.7**
PCBs																						
Aroclor 1016	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1221	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1232	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1242	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1248	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1254	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1260	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1268	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Aroclor 1262	NC	NC	NC	N/A	N/A	N/A	0.035 U	0.036 U	N/A	0.038 U	N/A	N/A	0.038 U	0.039 U	0.04 U	0.038 U	N/A	N/A	N/A	0.04 U	0.039 U	0.037 U
Total PCBs	1	0.2	0.2	N/A	N/A	N/A	ND	ND	N/A	ND	N/A	N/A	ND	ND	ND	ND	N/A	N/A	N/A	ND	ND	ND

Notes:
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- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJ
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- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantit
- J = Estimated value
- N/A = Not Analyzed
- Bolded values indicate positive detections
- Bolded and Shaded exceeds one or more of SRS

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

			Location ID	TP01	TP02			TP03		TP04		TP05		TP06		TP07		A9-3	A9-4	A9-5
			Sample ID	TP01F	TP02A	TP02B	TP02B	TP03A	TP03B	TP04A	TP04B	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-3	A9-4	A9-5
			Lab ID	JB43224-1	JB44970-1	JB44970-2	JB47515-2	JB45917-1	JB45917-2	JB45917-3	JB45917-4	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44712-1	JB44712-2	JB44712-3
			Sample Depth (ft , bgs)	10 - 10.5	2.5 - 3.0	3.0 - 3.5	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	0.5 - 1.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5
			Sample Date	7/26/2013	8/16/2013	8/16/2013	9/16/2013	8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/14/2013	8/14/2013	8/14/2013
Pesticides	**NRDCSRS**	**DCSRS**	**IGWSRS**																	
4,4'-DDD	13	3	3	N/A	N/A	N/A	N/A	**0.0016**	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	9	2	12	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	8	2	7	N/A	N/A	N/A	N/A	**0.0018**	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aldrin	0.2	0.04	0.1	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
alpha-BHC	0.5	0.1	0.002	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
alpha-Chlordane	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
beta-BHC	2	0.4	0.002	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane (alpha and gamma)	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
delta-BHC	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	0.2	0.04	0.003	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate	6800	470	1	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan-I	6800	470	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan-II	6800	470	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	340	23	0.6	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin aldehyde	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endrin ketone	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	2	0.4	0.002	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
gamma-Chlordane	NC	NC	NC	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.7	0.1	0.3	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	0.3	0.07	0.009	N/A	N/A	N/A	N/A	0.00067 U	0.00073 U	0.00072 U	0.00076 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methoxychlor	5700	390	100	N/A	N/A	N/A	N/A	0.0013 U	0.0015 U	0.0014 U	0.0015 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	3	0.6	0.2	N/A	N/A	N/A	N/A	0.017 U	0.018 U	0.018 U	0.019 U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VOCs																				
1,1,1-Trichloroethane	NC	160,000	0.2	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane	3	1	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane	6	2	0.01	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
1,1-Dichloroethane	24	8	0.2	0.0062 U	**0.0018 J**	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
1,1-Dichloroethene	150	11	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
1,2,3-Trichlorobenzene	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene	820	73	0.4	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	0.2	0.08	0.005	N/A	0.011 U	N/A	N/A	0.012 U	0.0099 U	0.011 U	0.0093 U	0.018 U	N/A	0.011 U	N/A	0.013 U	N/A	N/A	N/A	N/A
1,2-Dibromoethane	0.04	0.008	0.005	N/A	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	59000	5300	11	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
1,2-Dichloroethane	3	0.9	0.005	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
1,2-Dichloropropane	5	2	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene	59000	5300	12	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A

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NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

			Location ID	A9-6			A9-13	A9-14		A9-15			A9-16	A9-17	A9-18	A9-20			A9-21	A9-22	A9-23	A9-24
			Sample ID	A9-6	DUP01	A9-6(2)	A9-13	A9-14	A9-14B	A9-15	A9-15A	A9-15B	A9-16	A9-17	A9-18	A9-20	A9-20A	A9-20B	A9-21	A9-22	A9-23	A9-24
			Lab ID	JB44712-4	JB44712-5	JB46022-1	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-7	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45779-1	JB47515-9	JB47515-10	JB45779-2	JB46022-9	JB46022-10	JB46022-11
			Sample Depth (ft , bgs)	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	2.5 - 3.0	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
			Sample Date	8/14/2013	8/14/2013	8/29/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/27/2013	8/29/2013	8/29/2013	8/29/2013
Pesticides	**NRDCSRS**	**DCSRS**	**IGWSRS**																			
4,4'-DDD	13	3	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	9	2	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	8	2	7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Aldrin	0.2	0.04	0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
alpha-BHC	0.5	0.1	0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
alpha-Chlordane	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
beta-BHC	2	0.4	0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Chlordane (alpha and gamma)	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
delta-BHC	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	0.2	0.04	0.003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan sulfate	6800	470	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan-I	6800	470	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan-II	6800	470	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	340	23	0.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endrin aldehyde	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Endrin ketone	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
gamma-BHC (Lindane)	2	0.4	0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
gamma-Chlordane	NC	NC	NC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.7	0.1	0.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor epoxide	0.3	0.07	0.009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00071 U	N/A	N/A	N/A	N/A	N/A	N/A
Methoxychlor	5700	390	100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0014 U	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	3	0.6	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.018 U	N/A	N/A	N/A	N/A	N/A	N/A
VOCs																						
1,1,1-Trichloroethane	NC	160,000	0.2	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,1,2,2-Tetrachloroethane	3	1	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,1,2-Trichloroethane	6	2	0.01	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,1-Dichloroethane	24	8	0.2	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,1-Dichloroethene	150	11	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,2,3-Trichlorobenzene	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,2,4-Trichlorobenzene	820	73	0.4	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,2-Dibromo-3-chloropropane	0.2	0.08	0.005	N/A	N/A	N/A	0.01 U	0.012 U	N/A	0.011 U	N/A	N/A	0.012 U	0.0095 U	0.012 U	0.011 U	N/A	N/A	0.011 U	0.011 U	0.0094 U	0.011 U
1,2-Dibromoethane	0.04	0.008	0.005	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.0011 U	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
1,2-Dichlorobenzene	59000	5300	11	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,2-Dichloroethane	3	0.9	0.005	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.0011 U	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
1,2-Dichloropropane	5	2	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,3-Dichlorobenzene	59000	5300	12	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, M
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJ
"Soil-Water Partition Equation Guidance Document" dated June 2008 (Rev
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantit
- J = Estimated value
- N/A = Not Analyzed
- **Bolded values indicate positive detections**
- **Bolded and Shaded exceeds one or more of SRS**

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

			Location ID	TP01	TP02			TP03		TP04		TP05		TP06		TP07		A9-3	A9-4	A9-5
			Sample ID	TP01F	TP02A	TP02B	TP02B	TP03A	TP03B	TP04A	TP04B	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-3	A9-4	A9-5
			Lab ID	JB43224-1	JB44970-1	JB44970-2	JB47515-2	JB45917-1	JB45917-2	JB45917-3	JB45917-4	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44712-1	JB44712-2	JB44712-3
			Sample Depth (ft , bgs)	10 - 10.5	2.5 - 3.0	3.0 - 3.5	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	0.5 - 1.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5
			Sample Date	7/26/2013	8/16/2013	8/16/2013	9/16/2013	8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/14/2013	8/14/2013	8/14/2013
VOCs	**NRDCSRS**	**DCSRS**	**IGWSRS**																	
1,4-Dichlorobenzene	13	5	1	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
1,4-Dioxane	NC	NC	NC	N/A	0.14 U	N/A	N/A	0.15 U	0.12 U	0.13 U	0.12 U	0.23 U	N/A	0.14 U	N/A	0.16 U	N/A	N/A	N/A	N/A
2-Butanone (MEK)	44000	3100	0.6	0.012 U	**0.0044 J**	N/A	N/A	0.012 U	0.0099 U	0.011 U	0.0093 U	0.018 U	N/A	**0.0117**	N/A	**0.0109 J**	N/A	N/A	N/A	N/A
2-Hexanone	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Acetone	NC	70000	12	0.012 U	**0.0451**	N/A	N/A	0.012 U	0.0099 U	**0.033**	0.0093 U	0.018 U	N/A	**0.104**	N/A	**0.108**	N/A	N/A	N/A	N/A
Benzene	5	2	0.005	0.0012 U	**0.00032 J**	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
Bromochloromethane	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Bromodichloromethane	3	1	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Bromoform	280	81	0.02	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Bromomethane	59	25	0.03	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Carbon disulfide	110000	7800	4	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	**0.0013 J**	N/A	N/A	N/A	N/A
Carbon tetrachloride	4	2	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Chlorobenzene	7400	510	0.4	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Chloroethane	1100	220	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Chloroform	2	0.6	0.2	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Chloromethane	12	4	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
cis-1,2-Dichloroethene	560	230	0.2	0.0062 U	**0.00071 J**	N/A	N/A	0.0059 U	0.005 U	**0.0005 J**	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene	7	2	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Cyclohexane	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Dibromochloromethane	8	3	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Dichlorodifluoromethane	230000	490	25	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Ethylbenzene	110000	7800	8	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
Freon 113	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Isopropylbenzene	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
m,p-Xylene	NC	NC	NC	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
Methyl Acetate	NC	78000	14	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Methyl Tert Butyl Ether	320	110	0.2	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
Methylcyclohexane	NC	NC	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Methylene chloride	230	46	0.007	**0.002 J**	**0.0016 J**	N/A	N/A	0.0059 U	**0.0037 J**	**0.0018 J**	**0.0018 J**	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
o-Xylene	170000	12000	NC	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
Styrene	260	90	2	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Tetrachloroethene	1500	43	0.005	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Toluene	91000	6300	4	0.0012 U	**0.00087 J**	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene	720	300	0.4	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
trans-1,3-Dichloropropene	7	2	NC	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Trichloroethene	10	3	0.007	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Trichlorofluoromethane	340000	23000	22	0.0062 U	0.0057 U	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Vinyl chloride	2	0.7	0.005	0.0062 U	**0.0023 J**	N/A	N/A	0.0059 U	0.005 U	0.0054 U	0.0047 U	0.0092 U	N/A	0.0057 U	N/A	0.0064 U	N/A	N/A	N/A	N/A
Xylene (total)	170000	12000	12	0.0012 U	0.0011 U	N/A	N/A	0.0012 U	0.00099 U	0.0011 U	0.00093 U	0.0018 U	N/A	0.0011 U	N/A	0.0013 U	N/A	N/A	N/A	N/A

Notes:
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- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJDEP's "Soil-Water Partition Equation Guidance Document" dated June 2008 (Revised December 2008)
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantitation limit
- J = Estimated value
- N/A = Not Analyzed
- **Bolded values indicate positive detections**
- **Bolded and Shaded exceeds one or more of SRS**

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

			Location ID	A9-6			A9-13	A9-14		A9-15			A9-16	A9-17	A9-18	A9-20			A9-21	A9-22	A9-23	A9-24
			Sample ID	A9-6	DUP01	A9-6(2)	A9-13	A9-14	A9-14B	A9-15	A9-15A	A9-15B	A9-16	A9-17	A9-18	A9-20	A9-20A	A9-20B	A9-21	A9-22	A9-23	A9-24
			Lab ID	JB44712-4	JB44712-5	JB46022-1	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-7	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45779-1	JB47515-9	JB47515-10	JB45779-2	JB46022-9	JB46022-10	JB46022-11
			Sample Depth (ft , bgs)	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	2.5 - 3.0	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
			Sample Date	8/14/2013	8/14/2013	8/29/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/27/2013	8/29/2013	8/29/2013	8/29/2013
VOCs	**NRDCSRS**	**DCSRS**	**IGWSRS**																			
1,4-Dichlorobenzene	13	5	1	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
1,4-Dioxane	NC	NC	NC	N/A	N/A	N/A	0.12 U	0.15 U	N/A	0.14 U	N/A	N/A	0.15 U	0.12 U	0.15 U	0.14 U	N/A	N/A	0.14 U	0.13 U	0.12 U	0.13 U
2-Butanone (MEK)	44000	3100	0.6	N/A	N/A	N/A	0.01 U	0.012 U	N/A	0.011 U	N/A	N/A	0.012 U	0.0095 U	0.012 U	0.011 U	N/A	N/A	0.011 U	0.011 U	0.0094 U	0.011 U
2-Hexanone	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Acetone	NC	70000	12	N/A	N/A	N/A	**0.0081 J**	**0.0322**	N/A	**0.0261**	N/A	N/A	**0.0055 J**	0.0095 U	**0.0054 J**	**0.0088 J**	N/A	N/A	0.011 U	0.011 U	0.0094 U	0.011 U
Benzene	5	2	0.005	N/A	N/A	N/A	0.001 U	**0.00037 J**	N/A	**0.00065 J**	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	**0.00041 J**	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
Bromochloromethane	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Bromodichloromethane	3	1	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Bromoform	280	81	0.02	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Bromomethane	59	25	0.03	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Carbon disulfide	110000	7800	4	N/A	N/A	N/A	0.005 U	**0.00046 J**	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Carbon tetrachloride	4	2	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Chlorobenzene	7400	510	0.4	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Chloroethane	1100	220	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Chloroform	2	0.6	0.2	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Chloromethane	12	4	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
cis-1,2-Dichloroethene	560	230	0.2	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	**0.00076 J**	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
cis-1,3-Dichloropropene	7	2	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Cyclohexane	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Dibromochloromethane	8	3	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Dichlorodifluoromethane	230000	490	25	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Ethylbenzene	110000	7800	8	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.0011 U	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
Freon 113	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Isopropylbenzene	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
m,p-Xylene	NC	NC	NC	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	**0.00063 J**	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
Methyl Acetate	NC	78000	14	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Methyl Tert Butyl Ether	320	110	0.2	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	0.0011 U	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
Methylcyclohexane	NC	NC	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	**0.00086 J**	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Methylene chloride	230	46	0.007	N/A	N/A	N/A	**0.003 J**	0.0059 U	N/A	0.0054 U	N/A	N/A	**0.0052 J**	**0.0031 J**	**0.0042 J**	0.0056 U	N/A	N/A	**0.0021 J**	**0.003 J**	**0.0023 J**	**0.004 J**
o-Xylene	170000	12000	NC	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	**0.00049 J**	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
Styrene	260	90	2	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Tetrachloroethene	1500	43	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Toluene	91000	6300	4	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	**0.0007 J**	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U
trans-1,2-Dichloroethene	720	300	0.4	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
trans-1,3-Dichloropropene	7	2	NC	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Trichloroethene	10	3	0.007	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Trichlorofluoromethane	340000	23000	22	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	0.0054 U	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	0.0056 U	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Vinyl chloride	2	0.7	0.005	N/A	N/A	N/A	0.005 U	0.0059 U	N/A	**0.00087 J**	N/A	N/A	0.0058 U	0.0047 U	0.0058 U	**0.00064 J**	N/A	N/A	0.0055 U	0.0054 U	0.0047 U	0.0054 U
Xylene (total)	170000	12000	12	N/A	N/A	N/A	0.001 U	0.0012 U	N/A	**0.0011**	N/A	N/A	0.0012 U	0.00095 U	0.0012 U	0.0011 U	N/A	N/A	0.0011 U	0.0011 U	0.00094 U	0.0011 U

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, M
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJ
"Soil-Water Partition Equation Guidance Document" dated June 2008 (Rev
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantit
- J = Estimated value
- N/A = Not Analyzed
- Bolded values indicate positive detections
- Bolded and Shaded exceeds one or more of SRS

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

			Location ID	TP01	TP02			TP03		TP04		TP05		TP06		TP07		A9-3	A9-4	A9-5
			Sample ID	TP01F	TP02A	TP02B	TP02B	TP03A	TP03B	TP04A	TP04B	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-3	A9-4	A9-5
			Lab ID	JB43224-1	JB44970-1	JB44970-2	JB47515-2	JB45917-1	JB45917-2	JB45917-3	JB45917-4	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44712-1	JB44712-2	JB44712-3
			Sample Depth (ft , bgs)	10 - 10.5	2.5 - 3.0	3.0 - 3.5	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	0.5 - 1.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5
			Sample Date	7/26/2013	8/16/2013	8/16/2013	9/16/2013	8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/14/2013	8/14/2013	8/14/2013
SVOCs	**NRDCSRS**	**DCSRS**	**IGWSRS**																	
1,1'-Biphenyl	240	61	90	0.15 U	**0.0235 J**	N/A	0.076 U	0.064 U	0.07 U	**0.0647**	0.066 U	0.081 U	N/A	0.071 U	N/A	**0.083 J**	0.077 U	0.084 U	**0.0311 J**	0.075 U
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
2,3,4,6-Tetachloophenol	NC	NC	NC	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2,4,5-Tichloophenol	68000	6100	44	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2,4,6-Tichloophenol	74	19	0.2	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2,4-Dichloophenol	2100	180	0.2	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2,4-Dimethylphenol	14000	1200	0.7	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2,4-Dinitophenol	1400	120	0.3	N/A	N/A	N/A	N/A	0.64 U	0.7 U	0.75 U	0.66 U	0.81 U	N/A	0.71 U	N/A	0.83 U	N/A	0.84 U	0.77 U	0.75 U
2,4-Dinitrotoluene	3	0.7	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
2,6-Dinitrotoluene	3	0.7	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
2-Chloonaphthalene	NC	NC	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
2-Chloophenol	2200	310	0.5	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
2-Methylnaphthalene	2400	230	5	0.15 U	**0.0909**	N/A	**0.0494 J**	**0.0473 J**	0.07 U	0.075 U	0.066 U	**0.081 J**	N/A	0.071 U	N/A	**0.083 J**	0.077 U	0.084 U	**0.0429 J**	0.075 U
2-Methylphenol	3400	310	NC	N/A	N/A	N/A	N/A	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	N/A	0.084 U	0.077 U	0.075 U
2-Nitroaniline	23000	39	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
2-Nitophenol	NC	NC	NC	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
3&4-Methylphenol	340	31	NC	N/A	N/A	N/A	N/A	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	N/A	0.084 U	0.077 U	0.075 U
3,3'-Dichlorobenzidine	4	1	0.2	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
3-Nitroaniline	NC	NC	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
4,6-Dinito-o-cesol	68	6	0.3	N/A	N/A	N/A	N/A	0.64 U	0.7 U	0.75 U	0.66 U	0.81 U	N/A	0.71 U	N/A	0.83 U	N/A	0.84 U	0.77 U	0.75 U
4-Bomophenyl phenyl ethe	NC	NC	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
4-Chloo-3-methyl phenol	NC	NC	NC	N/A	N/A	N/A	N/A	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	N/A	0.21 U	0.19 U	0.19 U
4-Chloroaniline	NC	NC	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
4-Chlorophenyl phenyl ether	NC	NC	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
4-Nitroaniline	NC	NC	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
4-Nitrophenol	NC	NC	NC	N/A	N/A	N/A	N/A	0.32 U	0.35 U	0.37 U	0.33 U	0.41 U	N/A	0.36 U	N/A	0.42 U	N/A	0.42 U	0.38 U	0.37 U
Acenaphthene	37000	3400	74	0.075 U	**0.132**	N/A	**0.115**	0.032 U	0.035 U	0.037 U	0.033 U	0.041 U	N/A	0.036 U	N/A	**0.042 J**	0.038 U	0.042 U	**0.115**	**0.0516**
Acenaphthylene	300000	NC	NC	0.075 U	**0.0431**	N/A	**0.026 J**	0.032 U	0.035 U	0.037 U	0.033 U	0.041 U	N/A	0.036 U	N/A	**0.042 J**	0.038 U	0.042 U	0.038 U	0.037 U
Acetophenone	5	2	2	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
Anthracene	30000	17000	1500	0.075 U	**0.178**	N/A	**0.278**	**0.0137 J**	0.035 U	0.037 U	0.033 U	**0.041 J**	N/A	0.036 U	N/A	**0.082**	0.038 U	0.042 U	0.038 U	0.037 U
Atrazine	2400	210	0.2	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
Benzaldehyde	68000	6100	NC	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
Benzo(a)anthracene	17	5	0.5	**0.0406 J**	**0.496**	N/A	**0.69**	**0.0399**	0.035 U	0.037 U	0.033 U	**0.114**	N/A	**0.036 J**	N/A	**0.291**	0.038 U	0.042 U	**0.0158 J**	0.037 U
Benzo(a)pyrene	2	0.5	0.2	**0.0422 J**	**0.553**	N/A	**0.653**	0.032 U	0.035 U	0.037 U	0.033 U	**0.0706**	N/A	**0.036 J**	N/A	**0.276**	0.038 U	0.042 U	0.038 U	0.037 U
Benzo(b)fluoranthene	17	5	2	**0.0446 J**	**0.675**	N/A	**0.731**	0.032 U	0.035 U	0.037 U	0.033 U	**0.117**	N/A	**0.036 J**	N/A	**0.405**	0.038 U	0.042 U	**0.0269 J**	0.037 U
Benzo(g,h,i)perylene	30000	380000	NC	**0.0618 J**	**0.393**	N/A	**0.329**	0.032 U	0.035 U	0.037 U	0.033 U	**0.073**	N/A	**0.036 J**	N/A	**0.225**	0.038 U	0.042 U	0.038 U	0.037 U
Benzo(k)fluoanthene	170	45	16		**0.22**	N/A	**0.238**	0.032 U	0.035 U	0.037 U	0.033 U	**0.041 J**	N/A	0.036 U	N/A	**0.123**	0.038 U	0.042 U	0.038 U	0.037 U
bis(2-Chloroethoxy)methane	NC	NC	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
bis(2-Chloroethyl)ether	2	0.4	0.2	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJDEP's "Soil-Water Partition Equation Guidance Document" dated June 2008 (Revised December 2008)
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantitation limit
- J = Estimated value
- N/A = Not Analyzed
- **Bolded values indicate positive detections**
- **Bolded and Shaded exceeds one or more of SRS**

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

	Location ID			A9-6			A9-13	A9-14		A9-15			A9-16	A9-17	A9-18	A9-20			A9-21	A9-22	A9-23	A9-24
	Sample ID			A9-6	DUP01	A9-6(2)	A9-13	A9-14	A9-14B	A9-15	A9-15A	A9-15B	A9-16	A9-17	A9-18	A9-20	A9-20A	A9-20B	A9-21	A9-22	A9-23	A9-24
	Lab ID			JB44712-4	JB44712-5	JB46022-1	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-7	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45779-1	JB47515-9	JB47515-10	JB45779-2	JB46022-9	JB46022-10	JB46022-11
	Sample Depth (ft , bgs)			3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	2.5 - 3.0	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
	Sample Date			8/14/2013	8/14/2013	8/29/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/27/2013	8/29/2013	8/29/2013	8/29/2013
SVOCs	**NRDCSRS**	**DCSRS**	**IGWSRS**																			
1,1'-Biphenyl	240	61	90	0.074 U	**0.0203 J**	0.072 U	0.072 U	**0.0355 J**	0.07 U	**0.0205 J**	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
2,3,4,6-Tetachloophenol	NC	NC	NC	0.18 U	**0.128 J**	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2,4,5-Tichloophenol	68000	6100	44	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2,4,6-Tichloophenol	74	19	0.2	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2,4-Dichloophenol	2100	180	0.2	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2,4-Dimethylphenol	14000	1200	0.7	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2,4-Dinitophenol	1400	120	0.3	0.74 U	0.79 U	0.72 U	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.77 U	0.75 U	0.76 U	N/A	N/A	N/A	0.73 U	0.8 U	0.71 U
2,4-Dinitrotoluene	3	0.7	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
2,6-Dinitrotoluene	3	0.7	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
2-Chloonaphthalene	NC	NC	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
2-Chloophenol	2200	310	0.5	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
2-Methylnaphthalene	2400	230	5	**0.051 J**	**0.0507 J**	0.072 U	0.072 U	**0.141**	0.07 U	**0.104**	N/A	0.084 U	0.066 U	0.077 U	0.075 U	**0.0579 J**	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
2-Methylphenol	3400	310	NC	0.074 U	0.079 U	0.072 U	N/A	N/A	N/A	N/A	N/A	N/A	0.066 U	0.077 U	0.075 U	0.076 U	N/A	N/A	N/A	0.073 U	0.08 U	0.071 U
2-Nitroaniline	23000	39	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
2-Nitophenol	NC	NC	NC	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
3&4-Methylphenol	340	31	NC	0.074 U	0.079 U	0.072 U	N/A	N/A	N/A	N/A	N/A	N/A	0.066 U	0.077 U	0.075 U	0.076 U	N/A	N/A	N/A	0.073 U	0.08 U	0.071 U
3,3'-Dichlorobenzidine	4	1	0.2	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
3-Nitroaniline	NC	NC	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
4,6-Dinito-o-cesol	68	6	0.3	0.74 U	0.79 U	0.72 U	N/A	N/A	N/A	N/A	N/A	N/A	0.66 U	0.77 U	0.75 U	0.76 U	N/A	N/A	N/A	0.73 U	0.8 U	0.71 U
4-Bomophenyl phenyl ethe	NC	NC	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
4-Chloo-3-methyl phenol	NC	NC	NC	0.18 U	0.2 U	0.18 U	N/A	N/A	N/A	N/A	N/A	N/A	0.17 U	0.19 U	0.19 U	0.19 U	N/A	N/A	N/A	0.18 U	0.2 U	0.18 U
4-Chloroaniline	NC	NC	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
4-Chlorophenyl phenyl ether	NC	NC	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
4-Nitroaniline	NC	NC	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
4-Nitrophenol	NC	NC	NC	0.37 U	0.39 U	0.36 U	N/A	N/A	N/A	N/A	N/A	N/A	0.33 U	0.38 U	0.37 U	0.38 U	N/A	N/A	N/A	0.36 U	0.4 U	0.35 U
Acenaphthene	37000	3400	74	**0.0428**	**0.459**	0.036 U	0.036 U	**0.155**	0.035 U	**0.212**	N/A	0.042 U	0.033 U	0.038 U	0.037 U	**0.025 J**	N/A	0.033 U	N/A	0.036 U	**0.04 J**	0.035 U
Acenaphthylene	300000	NC	NC	0.037 U	**0.0376 J**	0.036 U	0.036 U	**0.668**	0.035 U	**0.111**	N/A	0.042 U	0.033 U	0.038 U	0.037 U	**0.0223 J**	N/A	0.033 U	N/A	0.036 U	**0.04 J**	0.035 U
Acetophenone	5	2	2	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
Anthracene	30000	17000	1500	**0.195**	**0.818**	0.036 U	**0.0252 J**	**0.918**	0.035 U	**0.292**	N/A	0.042 U	0.033 U	0.038 U	0.037 U	**0.0888**	N/A	0.033 U	N/A	0.036 U	**0.155**	0.035 U
Atrazine	2400	210	0.2	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
Benzaldehyde	68000	6100	NC	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U	N/A	0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
Benzo(a)anthracene	17	5	0.5	**0.0582**	**1.04**	0.036 U	**0.0539**	**2.14**	**0.0172 J**	**0.589**	N/A	0.042 U	**0.0272 J**	0.038 U	**0.0252 J**	**0.328**	N/A	0.033 U	N/A	0.036 U	**0.429**	0.035 U
Benzo(a)pyrene	2	0.5	0.2	**0.0294 J**	**0.326**	0.036 U	**0.0397**	**2.27**	0.035 U	**0.509**	N/A	0.042 U	**0.0216 J**	0.038 U	**0.0189 J**	**0.267**	N/A	0.033 U	N/A	0.036 U	**0.339**	0.035 U
Benzo(b)fluoranthene	17	5	2	**0.0693**	**0.606**	0.036 U	**0.0373**	**2.4**	**0.0149 J**	**0.682**	N/A	0.042 U	**0.0309 J**	0.038 U	**0.0235 J**	**0.326**	N/A	0.033 U	N/A	0.036 U	**0.305**	0.035 U
Benzo(g,h,i)perylene	30000	380000	NC	**0.0181 J**	**0.12**	0.036 U	**0.037**	**1.47**	0.035 U	**0.331**	N/A	0.042 U	**0.0167 J**	0.038 U	0.037 U	**0.205**	N/A	0.033 U	N/A	0.036 U	**0.168**	0.035 U
Benzo(k)fluoanthene	170	45	16	**0.0231 J**	**0.24**	0.036 U	0.036 U	**0.707**	0.035 U	**0.211**	N/A	0.042 U	0.033 U	0.038 U	0.037 U	**0.104**	N/A	0.033 U	N/A	0.036 U	**0.114**	0.035 U
bis(2-Chloroethoxy)methane	NC	NC	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
bis(2-Chloroethyl)ether	2	0.4	0.2	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U	N/A	0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, M
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJ
"Soil-Water Partition Equation Guidance Document" dated June 2008 (Rev
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantit
- J = Estimated value
- N/A = Not Analyzed
- **Bolded values indicate positive detections**
- **Bolded and Shaded exceeds one or more of SRS**

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

			Location ID	TP01	TP02			TP03		TP04		TP05		TP06		TP07		A9-3	A9-4	A9-5
			Sample ID	TP01F	TP02A	TP02B	TP02B	TP03A	TP03B	TP04A	TP04B	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-3	A9-4	A9-5
			Lab ID	JB43224-1	JB44970-1	JB44970-2	JB47515-2	JB45917-1	JB45917-2	JB45917-3	JB45917-4	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44712-1	JB44712-2	JB44712-3
			Sample Depth (ft , bgs)	10 - 10.5	2.5 - 3.0	3.0 - 3.5	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	0.5 - 1.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5
			Sample Date	7/26/2013	8/16/2013	8/16/2013	9/16/2013	8/28/2013	8/28/2013	8/28/2013	8/28/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/14/2013	8/14/2013	8/14/2013
SVOCs	**NRDCSRS**	**DCSRS**	**IGWSRS**																	
bis(2-Chloroisopropyl)ether	67	23	3	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
bis(2-Ethylhexyl)phthalate	140	35	790	0.15 U	**0.12**	N/A	**0.067 J**	0.064 U	0.07 U	**1.33**	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
Butyl benzyl phthalate	14000	1200	150	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
Caprolactam	340000	31000	8	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
Carbazole	96	24	NC	0.15 U	**0.0579 J**	N/A	**0.0884**	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	**0.083 J**	0.077 U	0.084 U	0.077 U	0.075 U
Chrysene	1700	450	52	**0.0646 J**	**0.562**	N/A	**0.655**	**0.121**	0.035 U	0.037 U	0.033 U	**0.26**	N/A	**0.036 J**	N/A	**0.469**	0.038 U	**0.0174 J**	**0.0313 J**	0.037 U
Dibenzo(a,h)anthracene	2	0.5	0.5	0.075 U	**0.106**	N/A	**0.0999**	0.032 U	0.035 U	0.037 U	0.033 U	**0.041 J**	N/A	0.036 U	N/A	**0.0788**	0.038 U	0.042 U	0.038 U	0.037 U
Dibenzofuran	NC	NC	NC	0.15 U	**0.068 J**	N/A	**0.0586 J**	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	**0.083 J**	0.077 U	0.084 U	**0.0398 J**	**0.0165 J**
Diethyl phthalate	550000	49000	57	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
Dimethyl phthalate	NC	NC	NC	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
Di-n-butyl phthalate	68000	6100	620	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
Di-n-octyl phthalate	27000	2400	3300	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
Fluoranthene	24000	2300	840	**0.0527 J**	**0.827**	N/A	**1.59**	**0.0589**	0.035 U	**0.0236**	0.033 U	**0.123**	N/A	**0.0362**	N/A	**0.504**	0.038 U	0.042 U	**0.0655**	0.037 U
Fluorene	24000	2300	110	0.075 U	**0.106**	N/A	**0.114**	0.0148 J	0.035 U	0.037 U	0.033 U	**0.041 J**	N/A	0.036 U	N/A	**0.0549**	0.038 U	0.042 U	**0.0334 J**	0.037 U
Hexachlorobenzene	1	0.3	0.2	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
Hexachlorobutadiene	25	6	0.6	0.075 U	0.036 U	N/A	0.038 U	0.032 U	0.035 U	0.037 U	0.033 U	0.041 U	N/A	0.036 U	N/A	0.042 U	0.038 U	0.042 U	0.038 U	0.037 U
Hexachlorocyclopentadiene	110	45	210	0.75 U	0.36 U	N/A	0.38 U	0.32 U	0.35 U	0.37 U	0.33 U	0.41 U	N/A	0.36 U	N/A	0.42 U	0.38 U	0.42 U	0.38 U	0.37 U
Hexachloroethane	48	12	0.2	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
Indeno(1,2,3-cd)pyrene	17	5	5	**0.0374 J**	**0.323**	N/A	**0.292**	0.032 U	0.035 U	0.037 U	0.033 U	**0.0516**	N/A	**0.036 J**	N/A	**0.215**	0.038 U	0.042 U	0.038 U	0.037 U
Isophorone	2000	510	0.2	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
Naphthalene	17	6	16	0.075 U	**0.121**	N/A	**0.0513**	**0.0373**	0.035 U	0.037 U	0.033 U	**0.041 J**	N/A	0.036 U	N/A	**0.0642**	0.038 U	0.042 U	**0.119**	**0.0508**
Nitrobenzene	14	5	0.2	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
N-Nitroso-di-n-propylamine	0.3	0.2	0.2	0.15 U	0.072 U	N/A	0.076 U	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	0.077 U	0.084 U	0.077 U	0.075 U
N-Nitrosodiphenylamine	390	99	0.2	0.37 U	0.18 U	N/A	0.19 U	0.16 U	0.18 U	0.19 U	0.17 U	0.2 U	N/A	0.18 U	N/A	0.21 U	0.19 U	0.21 U	0.19 U	0.19 U
Pentachlorophenol	3	0.9	0.3	N/A	N/A	N/A	N/A	0.32 U	0.35 U	0.37 U	0.33 U	0.41 U	N/A	0.36 U	N/A	0.42 U	N/A	0.42 U	0.38 U	0.37 U
Phenanthrene	300000	NC	NC	**0.0617 J**	**0.715**	N/A	**1.18**	**0.087**	0.035 U	**0.104**	0.033 U	**0.145**	N/A	**0.036 J**	N/A	**0.371**	0.038 U	0.042 U	**0.0391**	0.037 U
Phenol	210000	18000	5	N/A	N/A	N/A	N/A	0.064 U	0.07 U	0.075 U	0.066 U	0.081 U	N/A	0.071 U	N/A	0.083 U	N/A	0.084 U	0.077 U	0.075 U
Pyrene	18000	1700	550	**0.0702 J**	**0.883**	N/A	**1.35**	**0.214**	0.035 U	**0.171**	0.033 U	**0.127**	N/A	**0.0371**	N/A	**0.439**	0.038 U	**0.0526**	**0.0487**	0.037 U

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJDEP's "Soil-Water Partition Equation Guidance Document" dated June 2008 (Revised December 2008)
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantitation limit
- J = Estimated value
- N/A = Not Analyzed
- **Bolded values indicate positive detections**
- **Bolded and Shaded exceeds one or more of SRS**

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
TCL/TAL Soil Sampling Analytical Results - Vehicle Wash Area (AOC 34)

			Location ID	A9-6			A9-13	A9-14		A9-15			A9-16	A9-17	A9-18	A9-20			A9-21	A9-22	A9-23	A9-24
			Sample ID	A9-6	DUP01	A9-6(2)	A9-13	A9-14	A9-14B	A9-15	A9-15A	A9-15B	A9-16	A9-17	A9-18	A9-20	A9-20A	A9-20B	A9-21	A9-22	A9-23	A9-24
			Lab ID	JB44712-4	JB44712-5	JB46022-1	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-7	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45779-1	JB47515-9	JB47515-10	JB45779-2	JB46022-9	JB46022-10	JB46022-11
			Sample Depth (ft , bgs)	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	2.5 - 3.0	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
			Sample Date	8/14/2013	8/14/2013	8/29/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/27/2013	8/29/2013	8/29/2013	8/29/2013
SVOCs	**NRDCSRS**	**DCSRS**	**IGWSRS**																			
bis(2-Chloroisopropyl)ether	67	23	3	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
bis(2-Ethylhexyl)phthalate	140	35	790	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	**0.117**		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Butyl benzyl phthalate	14000	1200	150	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Caprolactam	340000	31000	8	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Carbazole	96	24	NC	**0.956**	**0.188**	0.072 U	0.072 U	**0.11**	0.07 U	**0.0562 J**		0.084 U	0.066 U	0.077 U	0.075 U	**0.0266 J**	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Chrysene	1700	450	52	**0.0853**	**0.823**	0.036 U	0.147	**2.45**	**0.0154 J**	**0.737**		0.042 U	**0.035**	0.038 U	**0.024 J**	**0.488**	N/A	0.033 U	N/A	0.036 U	**0.427**	0.035 U
Dibenzo(a,h)anthracene	2	0.5	0.5	0.037 U	**0.0345 J**	0.036 U	0.036 U	**0.442**	0.035 U	**0.103**		0.042 U	0.033 U	0.038 U	0.037 U	**0.0634**	N/A	0.033 U	N/A	0.036 U	**0.0528**	0.035 U
Dibenzofuran	NC	NC	NC	**0.249**	**0.135**	0.072 U	0.072 U	**0.0802**	0.07 U	**0.0518 J**		0.084 U	0.066 U	0.077 U	0.075 U	**0.0213 J**	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Diethyl phthalate	550000	49000	57	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Dimethyl phthalate	NC	NC	NC	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Di-n-butyl phthalate	68000	6100	620	0.074 U	0.079 U	0.072 U	0.072 U	**0.0909**	0.07 U	**0.048 J**		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Di-n-octyl phthalate	27000	2400	3300	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Fluoranthene	24000	2300	840	**0.523**	**8.01**	0.036 U	**0.0766**	**3.25**	**0.0203 J**	**0.969**		0.042 U	**0.0552**	0.038 U	**0.0362 J**	**0.49**	N/A	0.033 U	N/A	0.036 U	**0.71**	0.035 U
Fluorene	24000	2300	110	**0.585**	**0.62**	0.036 U	0.036 U	**0.231**	0.035 U	**0.14**		0.042 U	0.033 U	0.038 U	0.037 U	**0.0433**	N/A	0.033 U	N/A	0.036 U	**0.053**	0.035 U
Hexachlorobenzene	1	0.3	0.2	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Hexachlorobutadiene	25	6	0.6	0.037 U	0.039 U	0.036 U	0.036 U	0.037 U	0.035 U	0.036 U		0.042 U	0.033 U	0.038 U	0.037 U	0.038 U	N/A	0.033 U	N/A	0.036 U	0.04 U	0.035 U
Hexachlorocyclopentadiene	110	45	210	0.37 U	0.39 U	0.36 U	0.36 U	0.37 U	0.35 U	0.36 U		0.42 U	0.33 U	0.38 U	0.37 U	0.38 U	N/A	0.33 U	N/A	0.36 U	0.4 U	0.35 U
Hexachloroethane	48	12	0.2	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U		0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
Indeno(1,2,3-cd)pyrene	17	5	5	**0.0217 J**	**0.15**	0.036 U	**0.0235 J**	**1.24**	0.035 U	**0.278**		0.042 U	**0.0164 J**	0.038 U	0.037 U	**0.193**	N/A	0.033 U	N/A	0.036 U	**0.156**	0.035 U
Isophorone	2000	510	0.2	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
Naphthalene	17	6	16	**0.228**	**0.194**	0.036 U	0.036 U	**0.165**	0.035 U	**0.0935**		0.042 U	0.033 U	0.038 U	0.037 U	0.0592	N/A	0.033 U	N/A	0.036 U	0.04 U	0.035 U
Nitrobenzene	14	5	0.2	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
N-Nitroso-di-n-propylamine	0.3	0.2	0.2	0.074 U	0.079 U	0.072 U	0.072 U	0.073 U	0.07 U	0.071 U		0.084 U	0.066 U	0.077 U	0.075 U	0.076 U	N/A	0.067 U	N/A	0.073 U	0.08 U	0.071 U
N-Nitrosodiphenylamine	390	99	0.2	0.18 U	0.2 U	0.18 U	0.18 U	0.18 U	0.17 U	0.18 U		0.21 U	0.17 U	0.19 U	0.19 U	0.19 U	N/A	0.17 U	N/A	0.18 U	0.2 U	0.18 U
Pentachlorophenol	3	0.9	0.3	**0.323 J**	**3.34**	0.36 U	N/A	N/A	N/A	N/A		N/A	0.33 U	0.38 U	0.37 U	0.38 U	N/A	N/A	N/A	0.36 U	0.4 U	0.35 U
Phenanthrene	300000	NC	NC	**0.533**	**3.56**	0.036 U	**0.0854**	**2.11**	0.035 U	**0.762**		0.042 U	**0.0223 J**	0.038 U	**0.0173 J**	**0.394**	N/A	0.033 U	N/A	0.036 U	**0.489**	0.035 U
Phenol	210000	18000	5	0.074 U	**0.0491 J**	0.072 U	N/A	N/A	N/A	N/A		N/A	0.066 U	0.077 U	0.075 U	0.076 U	N/A	N/A	N/A	0.073 U	0.08 U	0.071 U
Pyrene	18000	1700	550	**0.506**	**5.32**	0.036 U	**0.0949**	**4.83**	**0.0245 J**	**1.05**		0.042 U	**0.0479**	**0.0181 J**	**0.0366 J**	**0.569**	N/A	0.033 U	N/A	0.036 U	**0.88**	0.035 U

Notes:
- All Results are dry weight and are repoted in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, M
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2
- IGWSRS = Default Impact to Gound Water Soil Remediation Standard is from the NJ
"Soil-Water Partition Equation Guidance Document" dated June 2008 (Rev
- NC = No Criteria
- ND = Non Detection
- U = Not detected above the quantitation limit; the value pesented is the sample quantit
- J = Estimated value
- N/A = Not Analyzed
- **Bolded values indicate positive detections**
- **Bolded and Shaded exceeds one or more of SRS**

Table 5
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
EPH Soil Analytical Results - Vehicle Wash Area (AOC 34)

				Location ID	TP01											TP02		TP03				TP04	
				Sample ID	TP01A	TP01B	TP01C	TP01D	TP01E	TP01F	TP01G	TP01H	TP01I	TP01J	DUP01	TP02A	TP02B	TP03A	TP03B	TP03	DUP01	TP04A	TP04B
				Lab ID	JB42805-1	JB42805-2	JB42849-1	JB42849-2	JB42849-3	JB43224-1	JB43224-2	JB43224-5	JB43224-3	JB43224-4	JB43224-6	JB44970-1	JB44970-2	JB45917-1	JB45917-2	JB47515-3	JB47515-11	JB45917-3	JB45917-4
				Sample Depth (ft, bgs)	11.5 - 12.0	11.5 - 12.0	11.5 - 12.0	8.5 - 9.0	11.5 - 12.0	10.0 - 10.5	5.5 - 6.0	5.5 - 6.0	5.5 - 6.0	7.5 - 8.0	3.0 - 3.5	2.5 - 3.0	3.0 - 3.5	1.5 - 2.0	2.0 - 2.5	3.0 - 3.5	3.0 - 3.5	0.5 - 1.0	2.0 - 2.5
				Sample Date	7/22/2013	7/22/2013	7/23/2013	7/23/2013	7/23/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	8/16/2013	8/16/2013	8/28/2013	8/28/2013	9/16/2013	9/16/2013	8/28/2013	8/28/2013
EPH	**NRDCSRS**	**RDCSRS**	**IGWSRS**																				
EPH (C9-C28)	NC	NC	NC		8.2 U	8.1 U	7.7 U	7.6 U	7.8 U	**417**	7.3 U	9.1 U	7.6 U	7.6 U	7.7 U	**428**	7.1 U	**6420**	6.9 U	**1470**	**1350**	**10100**	**305**
EPH (>C28-C40)	NC	NC	NC		8.2 U	8.1 U	7.7 U	7.6 U	7.8 U	**306**	7.3 U	9.1 U	7.6 U	7.6 U	7.7 U	**312**	7.1 U	**5410**	6.9 U	**2550**	**2480**	**1680**	**276**
Total EPH (C9-C40)	54000	5100	NC		8.2 U	8.1 U	7.7 U	7.6 U	7.8 U	**723**	7.3 U	9.1 U	7.6 U	7.6 U	7.7 U	**740**	7.1 U	**11800**	6.9 U	**4020**	**3830**	**11700**	**581**

				Location ID	TP05		TP06		TP07		A9-1	A9-2	A9-3	A9-4	A9-5	A9-6			A9-7	A9-8	A9-9	A9-10	A9-11
				Sample ID	TP05A	TP05B	TP06A	TP06B	TP07A	TP07B	A9-1	A9-2	A9-3	A9-4	A9-5	A9-6	DUP01	A9-6(2)	A9-7	A9-8	A9-9	A9-10	A9-11
				Lab ID	JB46022-2	JB46022-4	JB46022-5	JB46022-6	JB46022-7	JB46022-8	JB44266-1	JB44266-2	JB44712-1	JB44712-2	JB44712-3	JB44712-4	JB44712-5	JB46022-1	JB44712-6	JB44712-7	JB44970-3	JB44970-4	JB44970-5
				Sample Depth (ft, bgs)	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	4.0 - 4.5	5.5 - 6.0	6.0 - 6.5	4.0 - 4.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	2.0 - 2.5	3.0 - 3.5	3.0 - 3.5	4.0 - 4.5	8.0 - 8.5	8.0 - 8.5	2.5 - 3.0	1.5 - 2.0	1.0 - 1.5
				Sample Date	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/29/2013	8/8/2013	8/8/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/29/2013	8/14/2013	8/14/2013	8/16/2013	8/16/2013	8/16/2013
EPH	**NRDCSRS**	**RDCSRS**	**IGWSRS**																				
EPH (C9-C28)	NC	NC	NC		**87.3**	7.7 U	**634**	7.6 U	**223**	7.3 U	7.2 U	7.5 U	8.1 U	7.8 U	7.7 U	**94.5**	**222**	7.6 U	8.2 U	8.1 U	7.8 U	7.7 U	**33.7**
EPH (>C28-C40)	NC	NC	NC		**51.6**	7.7 U	**764**	7.6 U	**192**	7.3 U	7.2 U	7.5 U	8.1 U	7.8 U	7.7 U	**28.7**	**111**	7.6 U	8.2 U	8.1 U	7.8 U	7.7 U	7.7 U
Total EPH (C9-C40)	54000	5100	NC		**139**	7.7 U	**1400**	7.6 U	**415**	7.3 U	7.2 U	7.5 U	8.1 U	7.8 U	7.7 U	**123**	**333**	7.6 U	8.2 U	8.1 U	7.8 U	7.7 U	**33.7**

				Location ID	A9-12	A9-13	A9-14		A9-15		A9-16	A9-17	A9-18	A9-19	A9-20			A9-22	A9-23	A9-24
				Sample ID	A9-12	A9-13	A9-14	A9-14B	A9-15	A9-15B	A9-16	A9-17	A9-18	A9-19	A9-20A	A9-20B		A9-22	A9-23	A9-24
				Lab ID	JB44970-6	JB44970-7	JB45307-1	JB47515-6	JB45307-2	JB47515-8	JB45722-1	JB45722-2	JB45722-3	JB45722-4	JB45779-1	JB47515-9	JB47515-10	JB46022-9	JB46022-10	JB46022-11
				Sample Depth (ft, bgs)	3.0 - 3.5	3.0 - 3.5	2.5 - 3.0	4.0 - 4.5	3.0 - 3.5	4.0 - 4.5	7.5 - 8.0	11.5 - 12.0	7.5 - 8.0	5.5 - 6.0	2.5 - 3.0	2.5 - 3.0	4.0 - 4.5	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
				Sample Date	8/16/2013	8/16/2013	8/21/2013	9/16/2013	8/21/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013	8/26/2013	8/27/2013	9/16/2013	9/16/2013	8/26/2013	8/26/2013	8/26/2013
EPH	**NRDCSRS**	**RDCSRS**	**IGWSRS**																	
EPH (C9-C28)	NC	NC	NC		**20.1**	**809**	**248**	7.8 U	**516**	8.5 U	**66.5**	7.4 U	8.1 U	6.9 U	**179**	**254**	7 U	7.4 U	**35**	7.5 U
EPH (>C28-C40)	NC	NC	NC		7.7 U	**573**	**193**	7.8 U	**303**	8.5 U	7.5 U	7.4 U	8.1 U	6.9 U	**167**	**239**	7 U	7.4 U	**23.4**	7.5 U
Total EPH (C9-C40)	54000	5100	NC		**20.1**	**1380**	**440**	7.8 U	**819**	8.5 U	**66.5**	7.4 U	8.1 U	6.9 U	**346**	**493**	7 U	7.4 U	**58.4**	7.5 U

Notes:
- All results are dry weight and are reported in parts per million (mg/kg)
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 7, 2012
- IGWSRS = Default Impact to Ground Water Soil Remediation Standard is from the NJDEP's "Soil-Water Partition Equation Guidance Document" dated June 2008 (revised December 2008)
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit
- J = Estimated value
- **Bolded values indicate positive detections**
- **Bolded and Shaded meets or exceeds one of SRS**

Table 7

NJDOT

Fernwood Maintenance Facility and Office Complex

Ewing Township, New Jersey

SPLP Soil Analytical Results - Vehicle Wash Area (AOC 34)

	Sample ID	A9-14	A9-15A	A9-20A	TP01F	TP02A	TP05A	TP07A
	Lab ID	JB45307-1	JB47515-7	JB47515-9	JB43224-1	JB44970-1	JB46022-2	JB46022-7
	Sample Depth (ft, bgs)	2.5 - 3.0	3.0 - 3.5	2.5 - 3.0	10 - 10.5	2.5 - 3.0	2.5 - 3.0	5.5 - 6.0
	Sample Date	8/21/2013	9/16/2013	9/16/2013	7/26/2013	8/16/2013	8/29/2013	8/29/2013
Metals	**SPLP**							
Aluminum	2600	**1510**	**2190**	**1280**	N/A	N/A	N/A	N/A
Antimony	78	**120**	50 U	50 U	N/A	N/A	N/A	50 U
Arsenic	3	**4.7**	**3.8**	3 U	N/A	N/A	N/A	N/A
Barium	78000	1000 U	1000 U	1000 U	N/A	N/A	N/A	N/A
Beryllium	13	5 U	5 U	5 U	5 U	5 U	N/A	N/A
Cadmium	52	5 U	5 U	5 U	N/A	5 U	N/A	N/A
Calcium	NC	**15200**	**6470**	**6750**	N/A	N/A	N/A	N/A
Chromium	NC	10 U	10 U	10 U	N/A	N/A	N/A	N/A
Cobalt	1300	50 U	50 U	50 U	N/A	N/A	N/A	N/A
Copper	16900	10 U	**12.4**	10 U	N/A	N/A	N/A	N/A
Iron	NC	**1440**	**2250**	**1220**	N/A	N/A	N/A	N/A
Lead	65	**64.7**	50 U	**91.9**	50 U	N/A	N/A	N/A
Magnesium	NC	5000 U	5000 U	5000 U	N/A	N/A	N/A	N/A
Manganese	650	15 U	15 U	15 U	N/A	N/A	N/A	N/A
Mercury	26	0.2 U	0.2 U	0.2 U	N/A	N/A	0.2 U	0.2 U
Nickel	1300	10 U	10 U	10 U	N/A	N/A	N/A	10 U
Potassium	NC	10000 U	10000 U	10000 U	N/A	N/A	N/A	N/A
Selenium	520	50 U	50 U	50 U	N/A	N/A	N/A	N/A
Silver	520	10 U	10 U	10 U	N/A	N/A	N/A	10 U
Sodium	NC	**33200**	**20600**	**20200**	N/A	N/A	N/A	N/A
Thallium	6.5	2 U	2 U	2 U	N/A	N/A	N/A	N/A
Vanadium	NC	50 U	50 U	50 U	N/A	N/A	N/A	N/A
Zinc	26000	**80.7**	**74.3**	**26.6**	N/A	N/A	N/A	N/A
Other								
pH	NC	**9.17**	**9.11**	**9.23**	**8.41**	N/A	**8.71**	**8.68**

Notes:

All results are reported in ug/L

Bolded and shaded exceeds one or more of SRS

SPLP = Guidance for the use of the Synthetic Precipitation Leaching Procedure to Develop New Jersey Site-Specific Impact to Ground Water Remediation Standards, NJDEP, April 2013

- U = Not detected above the quantitation limit; the value pesented is the sample quantitation limit

N/A = Not Analyzed

Table 8
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
Supplemental Soil Sampling Analytical Results - Vehicle Wash Area AOC 34

			Location ID	WBSB01A		WBSB02A	WBSB03A	WBSB04A	WBSB05A	WBSB06A	SB1-1		FB01	TB
			Sample ID	WBSB01A	DUP01	WBSB02A	WBSB03A	WBSB04A	WBSB05A	WBSB06A	SB1A	SB1B	FB01	TB
			Lab ID	JB81080-1	JB81080-13	JB81080-3	JB81080-5	JB81080-7	JB81080-9	JB81080-11	JC8585-8	JC8585-9	JB81080-14	JB81080-15
			Sample Depth (ft, bgs)	1.0-1.5	1.0-1.5	1.7-2.2	1.7-2.2	1.7-2.2	1.3-2.0	1.5-2.0	1.5-2.0	11.3-11.8	NA	NA
			Sample Date	11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	10/7/2015	10/7/2015	2/7/5054	2/7/5054
Analyte	*NRDCSRS*	*RDCSRS*	*IGWSSL*											
Metals														
Aluminum	NC	78,000	6,000	**15,400**	**19,100**	**18,400**	**1,520**	**15,800**	**25,200**	**16,900**	NA	NA	NA	NA
Antimony	450	31	6	2.3 U	2.3 U	2.4 U	3.4 U	2.3 U	2.3 U	2.4 U	NA	NA	NA	NA
Arsenic	19	19	19	**5.5**	**6.7**	**5.9**	3.4 U	**7.8**	**8.3**	**7.6**	NA	NA	NA	NA
Barium	59,000	16,000	2100	**27.1**	**34.4**	**35.2**	34 U	**178**	**38.7**	**66**	NA	NA	NA	NA
Beryllium	140	16	0.7	**0.36**	**0.43**	**0.45**	0.34 U	**3.8**	**0.62**	**0.48**	NA	NA	NA	NA
Cadmium	78	78	2	0.58 U	0.58 U	0.59 U	**0.84**	0.57 U	0.58 U	0.61 U	NA	NA	NA	NA
Calcium	NC	NC	NC	580 U	**677**	**4,720**	**214,000**	**950**	580 U	610 U	NA	NA	NA	NA
Chromium	NC	NC	NC	**20.5**	**24.9**	**53.2**	**4.4**	**22.8**	**27.1**	**23**	NA	NA	NA	NA
Cobalt	590	1,600	90	5.8 U	5.8 U	5.9 U	8.4 U	**16**	5.8 U	6.1 U	NA	NA	NA	NA
Copper	45,000	3,100	11,000	**9**	**10.4**	**10.4**	**6.6**	**22.1**	**11.8**	**10.3**	NA	NA	NA	NA
Iron	NC	NC	NC	**15,900**	**19,900**	**23,900**	**14,100**	**33,000**	**24,300**	**22,000**	NA	NA	NA	NA
Lead	800	400	90	**9.2**	**10.4**	**10.7**	**30.2**	**44.3**	**14.8**	**9.2**	NA	NA	NA	NA
Magnesium	NC	NC	NC	**1,390**	**1,280**	**1,680**	840 U	**2,670**	**1,400**	**1,860**	NA	NA	NA	NA
Manganese	5,900	11,000	65	**63.2**	**56.8**	**96**	**57.8**	**428**	**89.1**	**441**	NA	NA	NA	NA
Mercury	65	23	0.1	**0.092**	0.04 U	0.036 U	**0.087**	0.037 U	**0.059**	0.036 U	NA	NA	NA	NA
Nickel	23,000	1,600	48	**9.9**	**10.1**	**8.9**	6.7 U	**22.6**	**11.5**	**10.3**	NA	NA	NA	NA
Potassium	NC	NC	NC	1200 U	1200 U	1200 U	1700 U	1100 U	1200 U	1200 U	NA	NA	NA	NA
Selenium	5,700	390	11	2.3 U	2.3 U	2.4 U	34 U	2.3 U	2.3 U	2.4 U	NA	NA	NA	NA
Silver	5,700	390	1	**0.75**	0.58 U	**0.74**	8.4 U	**0.7**	**0.71**	**0.7**	NA	NA	NA	NA
Sodium	NC	NC	NC	1200 U	1200 U	1200 U	1700 U	1100 U	1200 U	1200 U	NA	NA	NA	NA
Thallium	79	5	3	1.2 U	1.2 U	1.2 U	1.7 U	1.1 U	1.2 U	1.2 U	NA	NA	NA	NA
Vanadium	1,100	78	NC	**31.3**	**37.5**	**37**	8.4 U	**41.2**	**42.9**	**36.8**	NA	NA	NA	NA
Zinc	110,000	23,000	930	**22.9**	**21.8**	**40.9**	**292**	**49.9**	**25.7**	**29.6**	NA	NA	NA	NA
Polychlorinated Biphenyls														
Aroclor 1016	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1221	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1232	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1242	NC	NC	NC	0.04 U	0.038 U	**0.458**	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1248	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1254	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1260	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1268	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor 1262	NC	NC	NC	0.04 U	0.038 U	0.039 U	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Aroclor (Total)	1	0.2	0.2	0.04 U	0.038 U	**0.458**	0.054 U	0.037 U	0.035 U	0.039 U	0.035 U	0.04 U	NA	NA
Volatile Organic Compounds														
1,1,1-Trichloroethane	4,200	290	0.3	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	3	1	0.007	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
1,1,2-Trichloroethane	6	2	0.02	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
1,1-Dichloroethane	24	8	0.2	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,1-Dichloroethene	150	11	0.008	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,2,3-Trichlorobenzene	NC	NC	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.001 U	0.001 U
1,2,4-Trichlorobenzene	820	73	0.7	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.001 U	0.001 U
1,2-Dibromo-3-chloropropane	0.2	0.08	0.005	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.002 U	0.002 U
1,2-Dibromoethane	0.04	0.008	0.005	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,2-Dichlorobenzene	59,000	5,300	17	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,2-Dichloroethane	3	0.9	0.005	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,2-Dichloropropane	5	2	0.005	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
1,3-Dichlorobenzene	59,000	5,300	19	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
1,4-Dichlorobenzene	13	5	2	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
2-Butanone (MEK)	44,000	3,100	0.9	0.0098 U	0.0098 U	0.0098 U	0.019 U	0.011 U	0.01 U	0.0096 U	NA	NA	0.01 U	0.01 U
2-Hexanone	NC	NC	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.005 U	0.005 U
4-Methyl-2-pentanone(MIBK)	NC	NC	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.005 U	0.005 U
Acetone	NC	70,000	19	0.0098 U	0.0098 U	**0.0164**	0.019 U	0.011 U	0.01 U	**0.0148**	NA	NA	0.01 U	0.01 U
Benzene	5	2	0.005	0.00049 U	0.00049 U	0.00049 U	0.00097 U	0.00054 U	0.00051 U	0.00048 U	NA	NA	0.0005 U	0.0005 U
Bromochloromethane	NC	NC	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.001 U	0.001 U
Bromodichloromethane	3	1	0.005	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
Bromoform	280	81	0.03	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.001 U	0.001 U
Bromomethane	59	25	0.04	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.002 U	0.002 U
Carbon disulfide	110,000	7,800	6	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	**0.00051 J**	NA	NA	0.002 U	0.002 U
Carbon tetrachloride	2	0.6	0.005	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
Chlorobenzene	7,400	510	0.6	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
Chloroethane	1,100	220	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.001 U	0.001 U
Chloroform	2	0.6	0.4	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
Chloromethane	12	4	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.001 U	0.001 U
cis-1,2-Dichloroethene	560	230	0.3	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
cis-1,3-Dichloropropene	7	2	0.005	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
Cyclohexane	NC	NC	NC	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.005 U	0.005 U
Dibromochloromethane	8	3	0.005	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
Dichlorodifluoromethane	230,000	490	39	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.002 U	0.002 U
Ethylbenzene	110,000	7,800	13	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
Freon 113	NC	NC	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.005 U	0.005 U
Isopropylbenzene	NC	NC	NC	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.001 U	0.001 U
m,p-Xylene	170,000	12,000	19	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
Methyl Acetate	NC	78,000	22	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.005 U	0.005 U
Methyl Tert Butyl Ether	320	110	0.2	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
Methylcyclohexane	NC	NC	NC	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.005 U	0.005 U
Methylene chloride	97	34	0.01	**0.0017 J**	**0.002 J**	0.0049 U	**0.003 J**	0.0054 U	**0.0019 J**	0.0048 U	NA	NA	0.002 U	0.002 U
o-Xylene	170,000	12,000	19	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
Styrene	260	90	3	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
Tetrachloroethene	5	2	0.005	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
Toluene	91,000	6,300	7	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
trans-1,2-Dichloroethene	720	300	0.6	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
trans-1,3-Dichloropropene	7	2	0.005	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
Trichloroethene	20	7	0.01	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
Trichlorofluoromethane	340,000	23,000	34	0.0049 U	0.0049 U	0.0049 U	0.0097 U	0.0054 U	0.0051 U	0.0048 U	NA	NA	0.002 U	0.002 U
Vinyl chloride	2	0.7	0.005	0.002 U	0.002 U	0.002 U	0.0039 U	0.0021 U	0.002 U	0.0019 U	NA	NA	0.001 U	0.001 U
Xylene (total)	170,000	12,000	19	0.00098 U	0.00098 U	0.00098 U	0.0019 U	0.0011 U	0.001 U	0.00096 U	NA	NA	0.001 U	0.001 U
Semi-Volatile Organic Compounds														
1,1'-Biphenyl	34,000	3,100	140	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.002 U	NA
1,4-Dioxane	NC	NC	NC	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
2,3,4,6-Tetrachlorophenol	NC	NC	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
2,4,5-Trichlorophenol	68,000	6,100	68	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
2,4,6-Trichlorophenol	74	19	0.2	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
2,4-Dichlorophenol	2,100	180	0.2	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.002 U	NA
2,4-Dimethylphenol	14,000	1,200	1	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
2,4-Dinitrophenol	1,400	120	0.3	0.77 U	0.69 U	0.7 U	1 U	0.74 U	0.74 U	0.81 U	NA	NA	0.02 U	NA
2,4-Dinitrotoluene	3	0.7	NC	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
2,6-Dinitrotoluene	3	0.7	NC	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
2-Chloronaphthalene	NC	NC	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
2-Chlorophenol	2,200	310	0.8	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.005 U	NA
2-Methylnaphthalene	2,400	230	8	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.001 U	NA
2-Methylphenol	3,400	310	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
2-Nitroaniline	23,000	39	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
2-Nitrophenol	NC	NC	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
3&4-Methylphenol	340	31	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
3,3'-Dichlorobenzidine	4	1	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
3-Nitroaniline	NC	NC	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
4,6-Dinitro-o-cresol	68	6	0.3	0.77 U	0.69 U	0.7 U	1 U	0.74 U	0.74 U	0.81 U	NA	NA	0.02 U	NA
4-Bromophenyl phenyl ether	NC	NC	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.001 U	NA

Notes:
- All are reported in parts per million (mg\kg) (dry weight)
- ft bgs = feet below ground surface
- NRDCSRS = Non Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
- RDCSRS = Residential Direct Contact Soil Remediation Standards, NJDEP, May 2012
- IGWSSL = Default Impact to Ground Water Soil Screening Level, per NJDEP "Soil-Water Partition Equation Guidance Document" dated November 2013.
- J = Estimated Value
- NA = Not Applicable
- NC = No Criteria
- U = Not detected above the quantitation limit; the value presented is the sample quantitation limit.
- **Bold values indicate positive detections**
- **Shaded values exceed IGWSSL or RDCSRS**
- **Shaded values exceed RDCSRS or IGWSSL**
- **Shaded values exceeded NRDCSRS, RDCSRS, and IGWSSL**

Table 8
NJDOT
Fernwood Maintenance Facility and Office Complex
Ewing Township, New Jersey
Supplemental Soil Sampling Analytical Results - Vehicle Wash Area AOC 34

			Sample ID	WBSB01A	DUP01	WBSB02A	WBSB03A	WBSB04A	WBSB05A	WBSB06A	SB1-1		FB01	TB
			Lab ID	JB81080-1	JB81080-13	JB81080-3	JB81080-5	JB81080-7	JB81080-9	JB81080-11	SB1A	SB1B	JB81080-14	JB81080-15
			Sample Depth (ft, bgs)	1.0-1.5	1.0-1.5	1.7-2.2	1.7-2.2	1.7-2.2	1.3-2.0	1.5-2.0	JC8585-8	JC8585-9	NA	NA
			Sample Date	11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	11/5/2014	1.5-2.0	11.3-11.8	2/7/5054	2/7/5054
Analyte	*NRDCSRS*	*RDCSRS*	*IGWSSL*											
Semi-Volatile Organic Compounds Cont.														
4-Chloro-3-methyl phenol	NC	NC	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
4-Chloroaniline	NC	NC	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
4-Chlorophenyl phenyl ether	NC	NC	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
4-Nitroaniline	NC	NC	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
4-Nitrophenol	NC	NC	NC	0.38 U	0.34 U	0.35 U	0.52 U	0.37 U	0.37 U	0.41 U	NA	NA	0.01 U	NA
Acenaphthene	37,000	3,400	110	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Acenaphthylene	300,000	NC	NC	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Acetophenone	5	2	3	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.002 U	NA
Anthracene	30,000	17,000	2,400	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Atrazine	2,400	210	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Benzaldehyde	68,000	6,100	NC	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.001 U	NA
Benzo(a)anthracene	2	0.6	0.8	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.005 U	NA
Benzo(a)pyrene	0.2	0.2	0.2	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Benzo(b)fluoranthene	2	0.6	2	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Benzo(g,h,i)perylene	30,000	380,000	NC	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Benzo(k)fluoranthene	23	6	25	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
bis(2-Chloroethoxy)methane	NC	NC	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
bis(2-Chloroethyl)ether	2	0.4	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
bis(2-Chloroisopropyl)ether	67	23	5	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
bis(2-Ethylhexyl)phthalate	140	35	1,200	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Butyl benzyl phthalate	14,000	1,200	230	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Caprolactam	340,000	31,000	12	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Carbazole	96	24	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.001 U	NA
Chrysene	230	62	80	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Dibenzo(a,h)anthracene	0.2	0.2	0.8	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Dibenzofuran	NC	NC	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.005 U	NA
Diethyl phthalate	550,000	49,000	88	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Dimethyl phthalate	NC	NC	NC	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Di-n-butyl phthalate	68,000	6,100	760	**0.261**	**0.0935**	**0.22**	**0.436**	**0.233**	**0.225**	**0.0884**	NA	NA	0.002 U	NA
Di-n-octyl phthalate	27,000	2,400	3,300	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Fluoranthene	24,000	2,300	1,300	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Fluorene	24,000	2,300	170	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Hexachlorobenzene	1	0.3	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.001 U	NA
Hexachlorobutadiene	25	6	0.9	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Hexachlorocyclopentadiene	110	45	320	0.38 U	0.34 U	0.35 U	0.52 U	0.37 U	0.37 U	0.41 U	NA	NA	0.01 U	NA
Hexachloroethane	140	35	0.2	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.002 U	NA
Indeno(1,2,3-cd)pyrene	2	0.6	7	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Isophorone	2,000	510	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Naphthalene	17	6	25	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Nitrobenzene	340	31	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
N-Nitroso-di-n-propylamine	0.3	0.2	0.2	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
N-Nitrosodiphenylamine	390	99	0.4	0.19 U	0.17 U	0.18 U	0.26 U	0.19 U	0.19 U	0.2 U	NA	NA	0.005 U	NA
Pentachlorophenol	10	3	0.3	0.38 U	0.34 U	0.35 U	0.52 U	0.37 U	0.37 U	0.41 U	NA	NA	0.01 U	NA
Phenanthrene	300,000	NC	NC	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U	NA	NA	0.001 U	NA
Phenol	210,000	18,000	8	0.077 U	0.069 U	0.07 U	0.1 U	0.074 U	0.074 U	0.081 U	NA	NA	0.002 U	NA
Pyrene	18,000	1,700	840	0.038 U	0.034 U	0.035 U	0.052 U	0.037 U	0.037 U	0.041 U			0.001 U	NA
Extractable Petroleum Hydrocarbons														
EPH (C9-C28)	NC	NC	NC	7.8 U	7 U	6.9 U	11 U	7.3 U	7.5 U	8 U	NA	NA	0.051 U	NA
EPH (>C28-C40)	NC	NC	NC	7.8 U	7 U	6.9 U	11 U	7.3 U	7.5 U	8 U	NA	NA	0.051 U	NA
Total EPH (C9-C40)	54,000	5,100	NC	7.8 U	7 U	6.9 U	11 U	7.3 U	7.5 U	8 U	NA	NA	0.051 U	NA

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- **Shaded values exceed RDCSRS or IGWSSL**
- **Shaded values exceeded NRDCSRS, RDCSRS, and IGWSSL**

Table 4
New Jersey Department of Transportation
NJDOT Fernwood-Washbay
Ewing, New Jersey
Monitoring Well Analytical Results Table

		Location ID	MW-25		MW-26		MW-27				FIELD BLANK		TRIP BLANK
		Sample ID	MW-25		MW-26		MW-27		DUP01		FB01		TB
		Lab ID	JB83083-1		JB83083-2		JB83083-3		JB83083-4		JB83083-5		JB83083-6
		Sample Date	12/2/2014		12/2/2014		12/2/2014		12/2/2014		12/2/2014		12/2/2014
		Sample Depth (ft. bgs.)	20.10		20.70		20.20		20.20		NA		NA
		Filter	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered
Analyte	*GWSL*	*GWQS*											
Metals													
Aluminum	NC	NC	**3,540**	**430**	**552**	200 U	**1,870**	200 U	**2,050**	200 U	200 U	200 U	NA
Antimony	NC	6	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	NA
Arsenic	NC	3	3 U	3 U	9 U	9 U	3 U	3 U	3 U	3 U	3 U	3 U	NA
Barium	NC	6,000	**1,310**	**1,460**	**1,260**	**1,460**	**265**	**250**	**261**	**247**	200 U	200 U	NA
Beryllium	NC	1	**1.6**	**1.4***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA
Cadmium	NC	4	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	NA
Calcium	NC	NC	**28,200**	**32,100**	**64,300**	**73,900**	**30,000**	**29,000**	**29,400**	**28,300**	5000 U	5000 U	NA
Chromium	NC	NC	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA
Cobalt	NC	100	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	NA
Copper	NC	1,300	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA
Iron	NC	NC	**1,960**	100 U	**606**	100 U	**1,110**	100 U	**1,210**	100 U	100 U	100 U	NA
Lead	NC	5	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	NA
Magnesium	NC	NC	**21,800**	**24,700**	**41,300**	**47,900**	**21,500**	**20,800**	**21,100**	**20,200**	5000 U	5000 U	NA
Manganese	NC	NC	**621**	**641**	**15,300**	**17,200**	**1,820**	**1,690**	**1,790**	**1,640**	15 U	15 U	NA
Mercury	NC	2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	NA
Nickel	NC	100	**15.6**	**15.3**	**18**	**21.1**	10 U	10 U	10 U	10 U	10 U	10 U	NA
Potassium	NC	NC	10000 U	10000 U	**11300**	**12900**	10000 U	10000 U	10000 U	10000 U	10000 U	10000 U	NA
Selenium	NC	40	10 U	10 U	30 U	30 U	10 U	10 U	10 U	10 U	10 U	10 U	NA
Silver	NC	40	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NA
Sodium	NC	NC	**129,000**	**147,000**	**325,000**	**374,000**	**235,000**	**225,000**	**231,000**	**221,000**	10000 U	10000 U	NA
Thallium	NC	NC	2 U	2 U	6 U	6 U	2 U	2 U	2 U	2 U	2 U	2 U	NA
Vanadium	NC	NC	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	NA
Zinc	NC	2,000	**81.7**	**89.8**	**33**	**39.5**	20 U	20 U	20 U	20 U	20 U	20 U	NA
Volatile Organic Compounds													
1,1,1-Trichloroethane	13,000	30	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,1,2,2-Tetrachloroethane	NC	1	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,1,2-Trichloroethane	NC	3	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,1-Dichloroethane	NC	50	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,1-Dichloroethene	26	1	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,2,3-Trichlorobenzene	NC	NC	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,2,4-Trichlorobenzene	130	9	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,2-Dibromo-3-chloropropane	NC	0.02	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U
1,2-Dibromoethane	0.45	0.03	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,2-Dichlorobenzene	6,800	600	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,2-Dichloroethane	230	2	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,2-Dichloropropane	11	1	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,3-Dichlorobenzene	NC	600	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
1,4-Dichlorobenzene	21000	75	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
2-Butanone (MEK)	2,500,000	300	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
2-Hexanone	NC	40	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
4-Methyl-2-pentanone(MIBK)	900,000	NC	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
Acetone	21,000,000	6000	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
Benzene	23	1	0.5 U	NA	0.5 U	NA	0.5 U	NA	0.5 U	NA	0.5 U	NA	0.5 U
Bromochloromethane	NC	NC	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Bromodichloromethane	NC	1	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Bromoform	NC	4	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Bromomethane	20	10	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U
Carbon disulfide	1,500	700	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U
Carbon tetrachloride	1	1	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Chlorobenzene	770	50	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Chloroethane	26,000	NC	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Chloroform	1000	70	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Chloromethane	240	NC	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
cis-1,2-Dichloroethene	NC	70	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
cis-1,3-Dichloropropene	NC	NC	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Cyclohexane	16,000	NC	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
Dibromochloromethane	NC	1	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Dichlorodifluoromethane	NC	1000	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U
Ethylbenzene	700	700	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Freon 113	22,000	20,000	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
Isopropylbenzene	NC	700	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
m,p-Xylene	NC	NC	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Methyl Acetate	NC	7000	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
Methyl Tert Butyl Ether	580	70	**0.58 J**	NA	**0.68 J**	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Methylcyclohexane	NC	NC	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U	NA	5 U
Methylene chloride	2,600	3	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U
o-Xylene	NC	NC	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Styrene	180,000	100	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Tert Butyl Alcohol	NC	100	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
Tetrachloroethene	36	1	**0.51 J**	NA	**0.64 J**	NA	**1.2***	NA	**1.2***	NA	1 U	NA	1 U
Toluene	330,000	600	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
trans-1,2-Dichloroethene	NC	100	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
trans-1,3-Dichloropropene	NC	NC	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Trichloroethene	1	1	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Trichlorofluoromethane	NC	NC	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U	NA	2 U
Vinyl chloride	1	1	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Xylene (total)	7800	NC	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U	NA	1 U
Semi-Volatile Organic Compounds													
1,1'-Biphenyl	NC	400	1.1 U	NA	1.1 U	NA	1.1 U	NA	1.1 U	NA	1 U	NA	NA
1,2,4,5-Tetrachlorobenzene	NC	NC	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
1,4-Dioxane	2500	0.4	1.1 U	NA	1.1 U	NA	1.1 U	NA	1.1 U	NA	1 U	NA	NA
2,3,4,6-Tetrachlorophenol	NC	200	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
2,4,5-Trichlorophenol	NC	700	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
2,4,6-Trichlorophenol	NC	20	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
2,4-Dichlorophenol	NC	20	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
2,4-Dimethylphenol	NC	100	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
2,4-Dinitrophenol	NC	40	23 U	NA	22 U	NA	22 U	NA	22 U	NA	20 U	NA	NA
2,4-Dinitrotoluene	NC	NC	1.1 U	NA	1.1 U	NA	1.1 U	NA	1.1 U	NA	1 U	NA	NA
2,6-Dinitrotoluene	NC	NC	1.1 U	NA	1.1 U	NA	1.1 U	NA	1.1 U	NA	1 U	NA	NA
2-Chloronaphthalene	NC	600	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
2-Chlorophenol	NC	40	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
2-Methylnaphthalene	NC	30	1.1 U	NA	1.1 U	NA	1.1 U	NA	1.1 U	NA	1 U	NA	NA
2-Methylphenol	NC	50	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
2-Nitroaniline	NC	NC	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
2-Nitrophenol	NC	NC	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
3&4-Methylphenol	NC	NC	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
3,3'-Dichlorobenzidine	NC	30	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
3-Nitroaniline	NC	NC	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
4,6-Dinitro-o-cresol	NC	NC	23 U	NA	22 U	NA	22 U	NA	22 U	NA	20 U	NA	NA
4-Bromophenyl phenyl ether	NC	NC	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
4-Chloro-3-methyl phenol	NC	NC	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
4-Chloroaniline	NC	30	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
4-Chlorophenyl phenyl ether	NC	NC	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
4-Nitroaniline	NC	NC	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA

Notes:
- All results are presented in ug/l (ppb)
- GWQS = New Jersey Groundwater Quality Standard, June 2020
- GWSL = New Jersey Vapor Intrusion Guidance Ground Water Screening Levels, May 2021
- NA = Not Analyzed
- NC = No Criteria
- ND = Non-Detect
- J = Compound detected below the quantitation limit
- U = Compound was not detected
- * = Concentration does not exceed GWQS based on significant figures.
- **Bold values indicated positive detections**
- **Shaded values exceed the GWQS**
- **Shaded values exceed both the GWQS and GWSL**

Table 4
New Jersey Department of Transportation
NJDOT Fernwood-Washbay
Ewing, New Jersey
Monitoring Well Analytical Results Table

		Location ID	MW-25		MW-26		MW-27				FIELD BLANK		TRIP BLANK
		Sample ID	MW-25		MW-26		MW-27		DUP01		FB01		TB
		Lab ID	JB83083-1		JB83083-2		JB83083-3		JB83083-4		JB83083-5		JB83083-6
		Sample Date	12/2/2014		12/2/2014		12/2/2014		12/2/2014		12/2/2014		12/2/2014
		Sample Depth (ft. bgs.)	20.10		20.70		20.20		20.20		NA		NA
		Filter	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered	Filtered	Unfiltered
Analyte	*GWSL*	*GWQS*											
Semi Volatile Organic Compounds Cont.													
4-Nitrophenol	NC	NC	11 U	NA	11 U	NA	11 U	NA	11 U	NA	10 U	NA	NA
Acenaphthene	NC	400	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Acenaphthylene	NC	NC	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Acetophenone	NC	700	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Anthracene	NC	2,000	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Atrazine	NC	3	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Benzaldehyde	NC	NC	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
Benzo(a)anthracene	NC	0.1	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Benzo(a)pyrene	NC	0.1	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Benzo(b)fluoranthene	NC	0.2	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Benzo(g,h,i)perylene	NC	NC	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Benzo(k)fluoranthene	NC	0.5	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
bis(2-Chloroethoxy)methane	NC	NC	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
bis(2-Chloroethyl)ether	NC	7	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
bis(2-Chloroisopropyl)ether	NC	300	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
bis(2-Ethylhexyl)phthalate	NC	3	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Butyl benzyl phthalate	NC	100	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Caprolactam	NC	NC	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Carbazole	NC	NC	1.1 U	NA	1.1 U	NA	1.1 U	NA	1.1 U	NA	1 U	NA	NA
Chrysene	NC	5	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Dibenzo(a,h)anthracene	NC	0.3	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Dibenzofuran	NC	NC	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
Diethyl phthalate	NC	6,000	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Dimethyl phthalate	NC	NC	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Di-n-butyl phthalate	NC	700	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Di-n-octyl phthalate	NC	100	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Fluoranthene	NC	300	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Fluorene	NC	300	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Hexachlorobenzene	NC	0.02	0.023 U	NA	0.022 U	NA	0.022 U	NA	0.022 U	NA	0.02 U	NA	NA
Hexachlorobutadiene	NC	1	1.1 U	NA	1.1 U	NA	1.1 U	NA	1.1 U	NA	1 U	NA	NA
Hexachlorocyclopentadiene	NC	40	11 U	NA	11 U	NA	11 U	NA	11 U	NA	10 U	NA	NA
Hexachloroethane	NC	7	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Indeno(1,2,3-cd)pyrene	NC	0.2	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Isophorone	NC	40	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Naphthalene	300	300	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Nitrobenzene	NC	6	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
N-Nitroso-di-n-propylamine	NC	10	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
N-Nitrosodiphenylamine	NC	10	5.7 U	NA	5.6 U	NA	5.6 U	NA	5.6 U	NA	5.1 U	NA	NA
Pentachlorophenol	NC	0.3	0.34 U	NA	0.33 U	NA	0.33 U	NA	0.33 U	NA	0.31 U	NA	NA
Phenanthrene	NC	NC	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA
Phenol	NC	NC	2.3 U	NA	2.2 U	NA	2.2 U	NA	2.2 U	NA	2 U	NA	NA
Pyrene	NC	200	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.11 U	NA	0.1 U	NA	NA

Notes:
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- GWSL = New Jersey Vapor Intrusion Guidance Ground Water Screening Levels, May 2021
- NA = Not Analyzed
- NC = No Criteria
- ND = Non-Detect
- J = Compound detected below the quantitation limit
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- **Bold values indicated positive detections**
- **Shaded values exceed the GWQS**
- **Shaded values exceed both the GWQS and GWSL**

Louis Berger

Drilling Log

BORING NO.:	MW25
WELL NO.:	MW25
CLIENT:	New Jersey Department of Transportation
PROJECT:	Fernwood Maintenance Complex
DRILLING CONTRACTOR:	Summit Drilling Co., Inc.
DRILLING METHOD:	Hollow Stem Auger
PROJECT NO:	2001811.004
DATE STARTED:	11/8/2014
DATE FINISHED:	11/8/2014
DRILLER:	K. Barber
INSPECTOR:	J. Ganz
NORTHING:	N/A
EASTING:	N/A
GROUND ELEVATION:	N/A
TOC ELEVATION:	N/A

BOREHOLE DATA		**WELL DATA**	
Diameter (in):	8	**Completion:**	2-inch PVC/Flushmount
Total Depth (ft):	23.00	**Total Depth (ft):**	23.0
Sampler:	Split Spoon/ Soil Cuttings	**Screen Length (ft)/Slot (in):**	10 / 0.010
Depth to Water (ft):	16	**Depth to Water (ft):**	16.5
Depth to Rock (ft):	N/A	**Permit No.:**	N/A

NOTES:

Well Construction	Depth	Lithology	USCS	Sample Interval	Sample Recovery	Blows/6 in	PID (ppm)	Description	Remarks
	0		GP				N/A	Medium gray (N5) coarse to fine GRAVEL, trace Silt, little coarse to fine Sand; dry.	**Gravel**
	2								
	4								
	6		ML				N/A	Dark yellowish orange (10YR6/6) Clayey SILT, trace fine Gravel; moist.	**Clayey Silt**

Louis Berger	PROJECT NO.: 2001811.004	BORING NO.: MW25
	Page 2 of 3	WELL NO.: MW25

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	8								
	10		SP				N/A	Pale yellowish brown (10YR6/2) medium to fine SAND; moist.	**Sand**
			SP-SM				N/A N/A	Grayish black (N2) medium to fine SAND, trace Silt, trace fine Gravel; moist.	
	12		SP-SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, little Silt, trace coarse to fine Gravel; wet.	
								Grayish brown (5YR3/2) medium to fine SAND, little Silt, trace coarse to fine Gravel; wet.	
	14								
			SP-SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, little Silt, trace coarse to fine Gravel; wet.	
	16								**Water Level at 16 ft bgs**

Louis Berger	**PROJECT NO.:** 2001811.004	**BORING NO.:** MW25
	Page 3 of 3	**WELL NO.:** MW25

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	18								
	20		SP-SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, little Silt, trace coarse to fine Gravel; wet.	
	22								**End of Boring at 23 ft.**

Louis Berger

Drilling Log

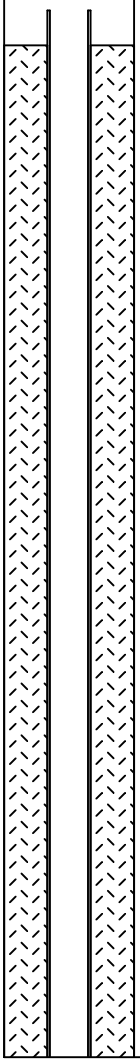
BORING NO.:	MW26
WELL NO.:	MW26

CLIENT:	New Jersey Department of Transportation
PROJECT:	Fernwood Maintenance Complex
DRILLING CONTRACTOR:	Summit Drilling Co., Inc.
DRILLING METHOD:	Hollow Stem Auger

PROJECT NO:	2001811.004
DATE STARTED:	11/8/2014
DATE FINISHED:	11/8/2014
DRILLER:	K. Barber
INSPECTOR:	J. Ganz
NORTHING:	N/A
EASTING:	N/A
GROUND ELEVATION:	N/A
TOC ELEVATION:	N/A

BOREHOLE DATA		**WELL DATA**	
Diameter (in):	8	**Completion:**	2-inch PVC/Flushmount
Total Depth (ft):	23.00	**Total Depth (ft):**	23.0
Sampler:	Split Spoon/ Soil Cuttings	**Screen Length (ft)/Slot (in):**	10 / 0.010
Depth to Water (ft):	16	**Depth to Water (ft):**	16.5
Depth to Rock (ft):	N/A	**Permit No.:**	N/A

NOTES:

Well Construction	Depth	Lithology	USCS	Sample Interval	Sample Recovery	Blows/6 in	PID (ppm)	Description	Remarks
	0 2 4 6		GP				N/A	Medium gray (N5) coarse to fine GRAVEL, trace Silt, little coarse to fine Sand; dry.	**Gravel**

Louis Berger	PROJECT NO.: 2001811.004	BORING NO.: MW26
	Page 2 of 3	WELL NO.: MW26

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	8								
	10		GP				N/A	Medium gray (N5) coarse to fine GRAVEL, trace Silt, little coarse to fine Sand; dry.	
			SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, some Silt, trace coarse to fine Gravel; moist.	**Silty Sand**
	12		SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, some Silt, trace coarse to fine Gravel; moist.	
	14								
	16								**Water Level at 16 ft bgs**

Louis Berger	**PROJECT NO.:** 2001811.004	**BORING NO.:** MW26
	Page 3 of 3	**WELL NO.:** MW26

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	18								
	20		SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, some Silt, trace coarse to fine Gravel; wet.	
			SP				N/A	Moderate yellowish brown (10YR5/4) coarse to fine SAND, trace Silt; saturated.	**Sand**
			SP-				N/A		
			SP-				N/A	Very pale orange (10YR8/2) medium to fine SAND, little Silt; wet.	**Gravelly Sand**
			SM					Black (N1) to moderate brown (5YR4/4) medium to fine SAND, little Silt, some fine Gravel; wet.	
	22								**End of Boring at 23 ft bgs**

Louis Berger

Drilling Log

BORING NO.:	MW27
WELL NO.:	MW27
CLIENT:	New Jersey Department of Transportation
PROJECT:	Fernwood Maintenance Complex
DRILLING CONTRACTOR:	Summit Drilling Co., Inc.
DRILLING METHOD:	Hollow Stem Auger
PROJECT NO:	2001811.004
DATE STARTED:	11/8/2014
DATE FINISHED:	11/8/2014
DRILLER:	K. Barber
INSPECTOR:	J. Ganz
NORTHING:	N/A
EASTING:	N/A
GROUND ELEVATION:	N/A
TOC ELEVATION:	N/A

BOREHOLE DATA		**WELL DATA**	
Diameter (in):	8	**Completion:**	2-inch PVC/Flushmount
Total Depth (ft):	23.00	**Total Depth (ft):**	23.0
Sampler:	Split Spoon/ Soil Cuttings	**Screen Length (ft)/Slot (in):**	10 / 0.010
Depth to Water (ft):	16	**Depth to Water (ft):**	16.5
Depth to Rock (ft):	N/A	**Permit No.:**	N/A

NOTES:

Well Construction	Depth	Lithology	USCS	Sample Interval	Sample Recovery	Blows/6 in	PID (ppm)	Description	Remarks
	0		GP				N/A	Medium gray (N5) coarse to fine GRAVEL, trace Silt, little coarse to fine Sand; dry.	**Gravel**
	2								
	4		ML				N/A	Dark yellowish orange (10YR6/6) Clayey SILT, trace fine Gravel; moist.	**Clayey Silt**
	6								

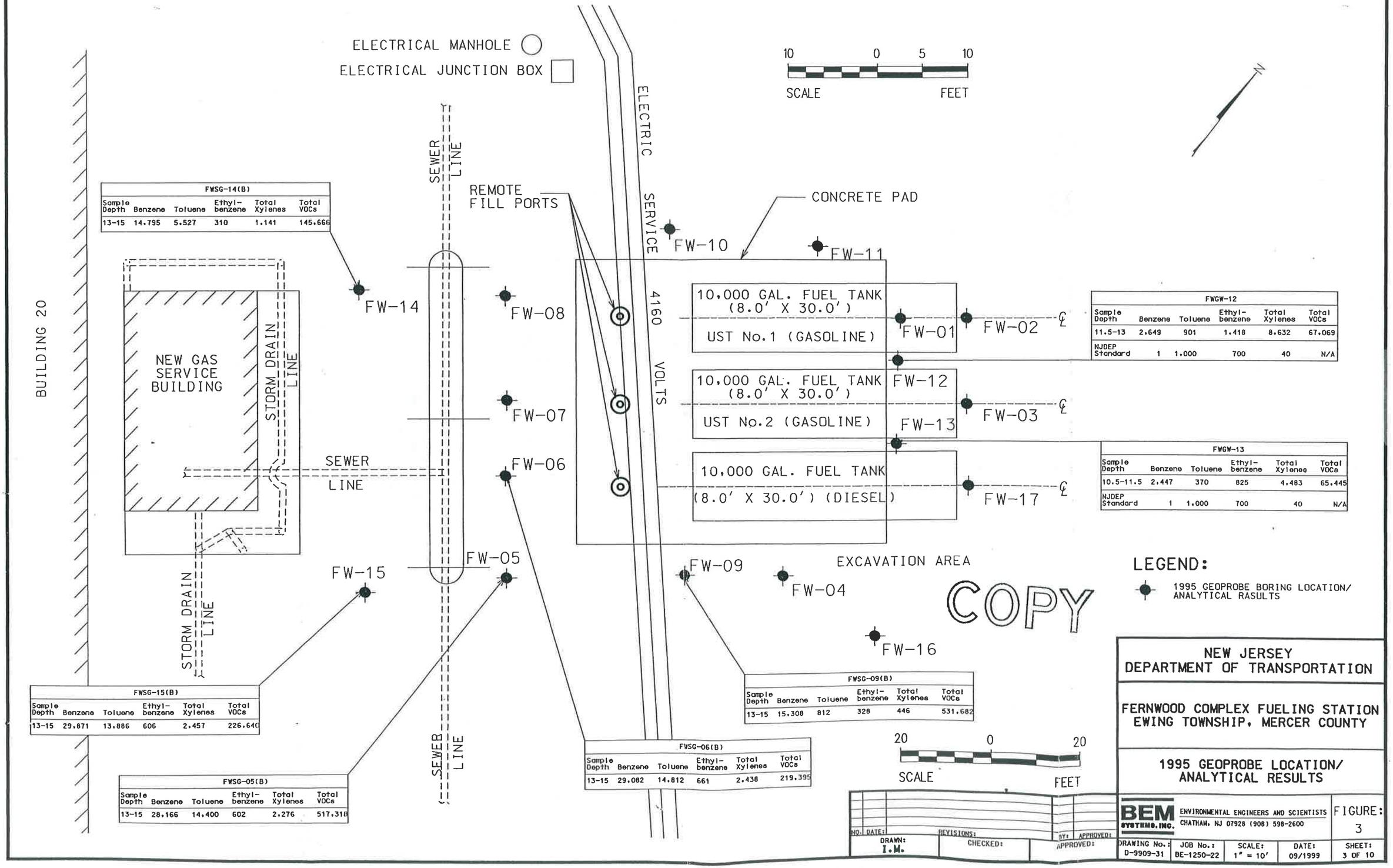
Louis Berger	PROJECT NO.: 2001811.004	BORING NO.: MW27
	Page 2 of 3	WELL NO.: MW27

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	8		SP SP- SM				N/A N/A	Dark gray (N3) medium to fine SAND, trace Silt, little coarse to fine Gravel; moist. Grayish brown (5YR3/2) medium to fine SAND, little Silt, little coarse to fine Gravel; moist.	**Sand**
	10		SM				N/A	Grayish brown (5YR3/2) medium to fine SAND, some Silt, trace coarse to fine Gravel; wet.	**Silty Sand**
	12								
	14								
	16								▽ **Water Level at 16 ft bgs**

Louis Berger	**PROJECT NO.:** 2001811.004	**BORING NO.:** MW27
	Page 3 of 3	**WELL NO.:** MW27

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	18								
	20		GP				N/A	Dark gray (N3) to light gray (N7) coarse to fine GRAVEL, little medium to fine Sand; dry.	**Gravel**
			SP				N/A	Grayish brown (5YR3/2) medium to fine SAND, trace Silt, little coarse to fine Gravel; saturated.	**Sand**
	22								**End of Boring at 23 ft bgs**

ATTACHMENT 3
AREA 5: FUELING STATION AREA



FWSG-14(B)					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
13-15	14.795	5.527	310	1.141	145.666

FWSG-15(B)					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
13-15	29.871	13.886	606	2.457	226.640

FWSG-05(B)					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
13-15	28.166	14.400	602	2.276	517.318

FWSG-06(B)					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
13-15	29.082	14.812	661	2.438	219.395

FWSG-09(B)					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
13-15	15.308	812	328	446	531.682

FWGW-12					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
11.5-13	2.649	901	1.418	8.632	67.069
NJDEP Standard	1	1,000	700	40	N/A

FWGW-13					
Sample Depth	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total VOCs
10.5-11.5	2.447	370	825	4.483	65.445
NJDEP Standard	1	1,000	700	40	N/A

LEGEND:

1995 GEOPROBE BORING LOCATION/ ANALYTICAL RASULTS

NEW JERSEY DEPARTMENT OF TRANSPORTATION

FERNWOOD COMPLEX FUELING STATION EWING TOWNSHIP, MERCER COUNTY

1995 GEOPROBE LOCATION/ ANALYTICAL RESULTS

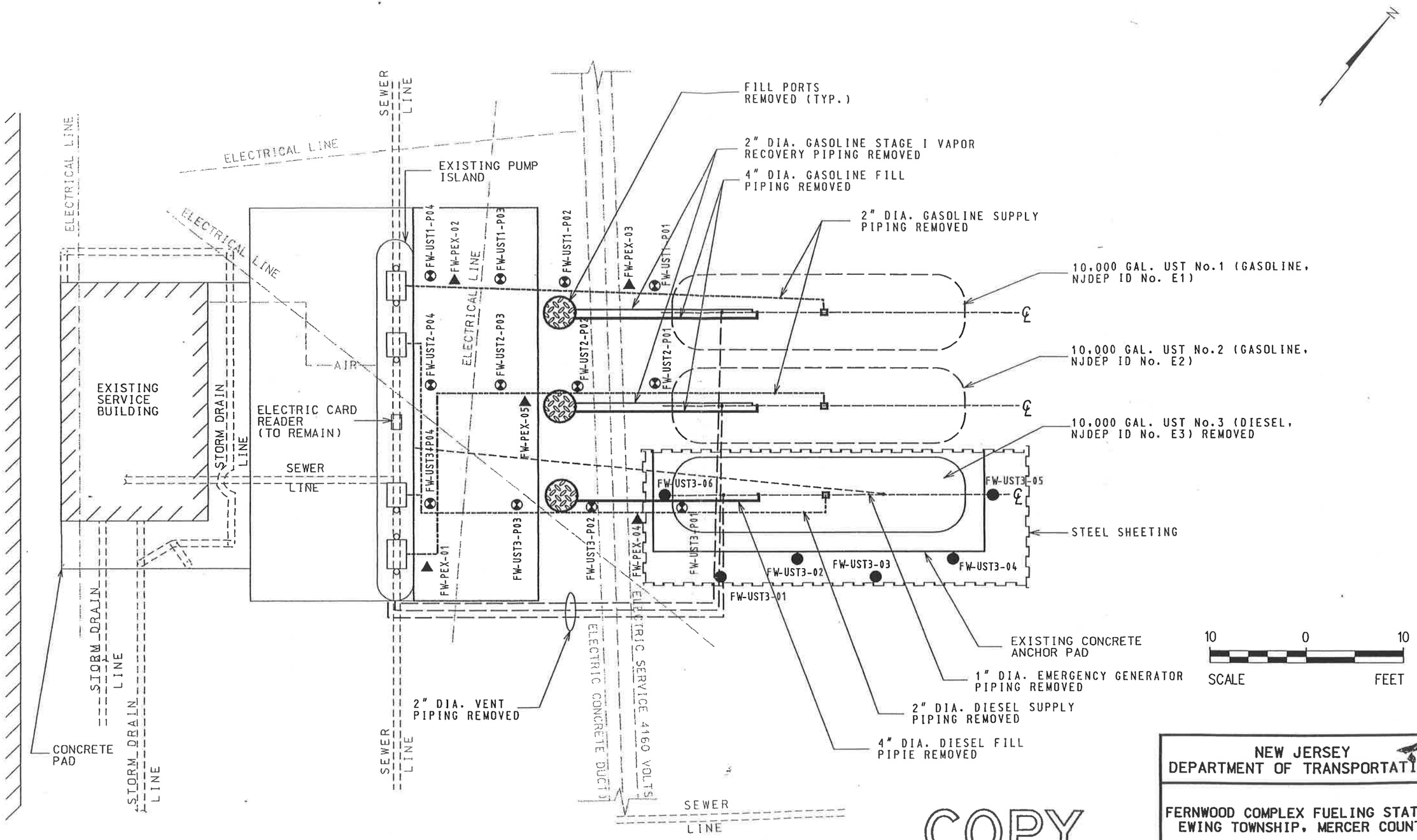
NO.:	DATE:	REVISIONS:	BY:	APPROVED:

DRAWN: I.M. | CHECKED: | APPROVED:

BEM SYSTEMS, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS CHATHAM, NJ 07928 (908) 598-2600

FIGURE: 3

DRAWING No.:	JOB No.:	SCALE:	DATE:	SHEET:
D-9909-31	BE-1250-22	1" = 10'	09/1999	3 OF 10



LEGEND:

- ⊗ PIPING SAMPLING LOCATION (12/01/98)
- ● TANK PIT POST-EXCAVATION SAMPLING LOCATION (01/13/99)
- ▲ PIPING POST-EXCAVATION SAMPLING LOCATION (01/22/99)

COPY

NEW JERSEY DEPARTMENT OF TRANSPORTATION

FERNWOOD COMPLEX FUELING STATION
EWING TOWNSHIP, MERCER COUNTY

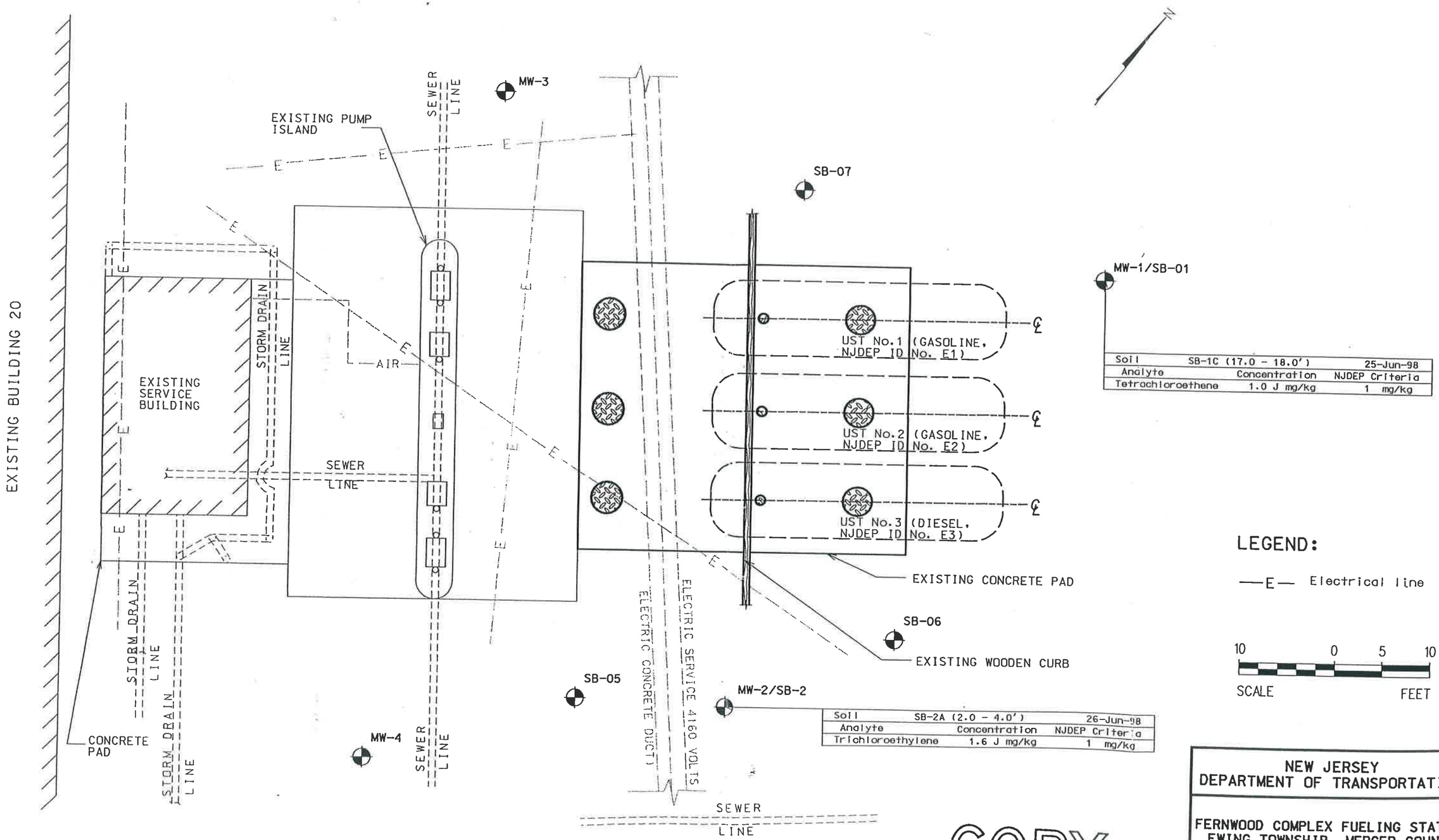
UST CLOSURE SOIL SAMPLE LOCATION

NO.:	DATE:	REVISIONS:	BY:	APPROVED:

BEM SYSTEMS, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
CHATHAM, NJ 07928 (908) 598-2600

FIGURE: 4

DRAWN:	CHECKED:	APPROVED:	DRAWING No.:	JOB No.:	SCALE:	DATE:	SHEET
I.M.	D.B.	D.S.	B-9909-32	BE-1250-22	1" = 10'	09/1999	4 OF 10



NEW JERSEY DEPARTMENT OF TRANSPORTATION

FERNWOOD COMPLEX FUELING STATION
EWING TOWNSHIP, MERCER COUNTY

1998 SOIL BORING/MONITORING WELL LOCATION/ANALYTICAL RESULTS

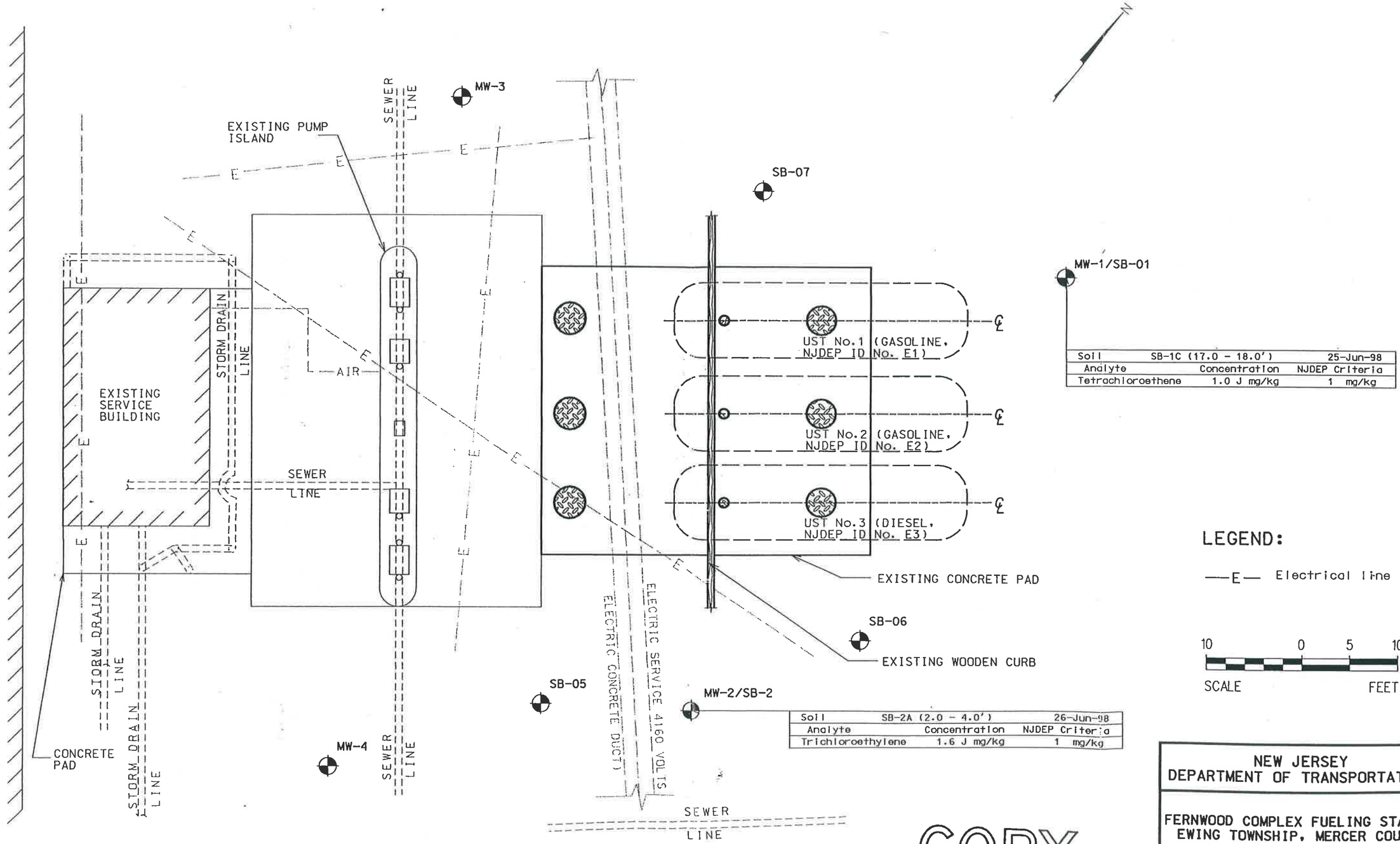
NO.:	DATE:	REVISIONS:	BY:	APPROVED:

DRAWN: I.M. | CHECKED: | APPROVED:

BEM SYSTEMS, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
CHATHAM, NJ 07928 (908) 598-2600

FIGURE: 5

DRAWING No.:	JOB No.:	SCALE:	DATE:	SHEET:
B-9909-33	BE-1250-22	1" = 10'	09/1999	5 OF 10



Soil	SB-1C (17.0 - 18.0')	25-Jun-98
Analyte	Concentration	NJDEP Criteria
Tetrachloroethene	1.0 J mg/kg	1 mg/kg

Soil	SB-2A (2.0 - 4.0')	26-Jun-98
Analyte	Concentration	NJDEP Criteria
Trichloroethylene	1.6 J mg/kg	1 mg/kg

LEGEND:

—E— Electrical line

10 0 5 10

SCALE FEET

COPY

NEW JERSEY DEPARTMENT OF TRANSPORTATION

FERNWOOD COMPLEX FUELING STATION
EWING TOWNSHIP, MERCER COUNTY

1998 SOIL BORING/MONITORING WELL LOCATION/ANALYTICAL RESULTS

NO.	DATE:	REVISIONS:	BY:	APPROVED:

DRAWN:	CHECKED:	APPROVED:
I.M.		

BEM SYSTEMS, INC. ENVIRONMENTAL ENGINEERS AND SCIENTISTS
CHATHAM, NJ 07928 (908) 598-2600

FIGURE: 5

DRAWING No.:	JOB No.:	SCALE:	DATE:	SHEET:
B-9909-33	BE-1250-22	1" = 10'	09/1999	5 OF 10

TABLE 1 - GEOPROBE INVESTIGATION VOC ANALYTICAL RESULTS
(Cont'd)

SOIL SAMPLES

Sample ID	Sample Depth (ft)	Benzene	Toluene	Ethyl-benzene	m&p-Xylenes	o-Xylene	Total Xylenes	Total VOCs
FWSO-04	14-15	48	ND(2)	13	17	ND(2)	17	635
FWSO-05	4-6	11	ND(2)	19	69	6	75	271
FWSO-06	4-6	118	107	56	107	71	178	666
FWSO-07	4-6	212	8	ND(2)	7	ND(2)	7	336
FWSO-08	4-6	72	2	6	26	11	37	381
FWSO-09	4-6	49	4	ND(2)	40	ND(2)	40	158
FWSO-10	4-6	5	ND(2)	ND(2)	7	ND(2)	7	28
FWSO-11	4-6	3	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	17
FWSO-12	4-6	ND(2)	ND(2)	ND(2)	17	ND(2)	17	25
FWSO-13	3-5	10	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	174
FWSO-14	4-6	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	ND(2)	13
FWSO-15	4-6	183	11	71	193	37	230	665
FWSO-16	3-5	25	2	ND(2)	8	ND(2)	8	161
FWSO-17	3-5	55	3	ND(2)	18	ND(2)	18	304

Notes:

1) All results are presented in micrograms per liter (μg/l)
2) ND - Not detected at lower quantifiable limit indicated in parentheses.
3) (D) - Field Duplicate Sample

TABLE 2 - GEOPROBE INVESTIGATION TPHC ANALYTICAL RESULTS

Sample ID	Sample Depth (ft)	TPHCs
FWSO-03	10-12	58
FWSO-03(D)	10-12	52
FWSO-05	4-6	38
FWSO-06	4-6	42
FWSO-07	4-6	70
FWSO-08	4-6	38
FWSO-09	4-6	98
FWSO-09(D)	4-6	94
FWSO-10	4-6	42
FWSO-11	4-6	78
FWSO-13	3-5	164
FWSO-14	4-6	32
FWSO-15	4-6	82
FWSO-16	3-5	58
FWSO-17	3-5	154

Notes:

1) All results are presented in milligrams per kilogram (mg/kg)
2) ND - Not detected at lower quantifiable limit indicated in parentheses
3) (D) - Field Duplicate Sample

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in June 1998 at the NJDOT- Fernwood Site, Fernwood, New Jersey.

Analyte	Sample ID:	Unknown Std	SB-1A (2.0' - 3.0')	SB-1B (12.0' - 13.0')	SB-1C (17.0' - 18.0')	SB-2A (2.0' - 4.0')	SB-2A (2.0' - 4.0') Run 2	SB-2ARE (2.0' - 3.5')	SB-2B (8.0' - 10.0')	SB-2C (12.0' - 13.5')	SB-2D (16.0' - 17.5')
	Date:		25-Jun-98	25-Jun-98	25-Jun-98	26-Jun-98	26-Jun-98	27-Jun-98	27-Jun-98	27-Jun-98	27-Jun-98
Acetone		100	0.85	0.90 UJ	0.96 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.87
Acrolein		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Acrylonitrile		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Bromodichloromethane		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Bromobenzene		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Bromochloromethane		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Bromomethane		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
n-Butylbenzene		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
sec-Butylbenzene		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
t-Butylbenzene		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Benzene		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Toluene		500	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Carbon disulfide		NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
2-Chloroethyl vinyl ether		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Chlorobenzene		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
2-Chlorotoluene		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
4-Chlorotoluene		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Chloroethane		NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Chloromethane		10	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Carbon tetrachloride		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Dibromochloromethane		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,2-Dibromo-3-chloropropane		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Dibromomethane		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
1,1-Dichloroethane		10	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,2-Dichloroethane		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,2-Dichlorobenzene		50	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
1,3-Dichlorobenzene		100	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
1,4-Dichlorobenzene		100	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,1-Dichloroethene		8	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
cis-1,2-Dichloroethene		1	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
trans-1,2-Dichloroethene		50	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
1,1-Dichloropropene		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
cis-1,3-Dichloropropene		NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
trans-1,3-Dichloropropene		NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,2-Dichloropropane		10	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,3-Dichloropropane		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
2,2-Dichloropropane		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Ethylbenzene		100	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Ethylene dibromide		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Trichlorofluoromethane		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U

(Cont. on next page)

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in June 1998 at the NJDOT- Fernwood Site, Fernwood, New Jersey.

Analyte	Sample ID:	Unknown Std	SB-1A (2.0' - 3.0')	SB-1B (12.0' - 13.0')	SB-1C (17.0' - 18.0')	SB-2A (2.0' - 4.0')	SB-2A (2.0' - 4.0') Run 2	SB-2ARE (2.0' - 3.5')	SB-2B (8.0' - 10.0')	SB-2C (12.0' - 13.5')	SB-2D (16.0' - 17.5')
	Date:		25-Jun-98	25-Jun-98	25-Jun-98	26-Jun-98	26-Jun-98	27-Jun-98	27-Jun-98	27-Jun-98	27-Jun-98
Dichlorodifluoromethane		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Hexachlorobutadiene		1	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
2-Hexanone		NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Isopropylbenzene ((Cumene)		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
p-Isopropyltoluene		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
4-Methyl-2-pentanone		50	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Methyl ethyl ketone		NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Methylene chloride		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.78~~ J	0.77 U	0.77 UJ	0.74 UJ	0.51 J
Naphthalene		100	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
n-Propylbenzene		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
1,1,2,2-Tetrachloroethane		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Tetrachloroethene		1	0.75 U	0.32 J	1.0 J	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Styrene		23	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Tribromomethane		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,1,1,2-Tetrachloroethane		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
1,1,1-Trichloroethane		50	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,1,2-Trichloroethane		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,2,3-Trichlorobenzene		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
1,2,4-Trichlorobenzene		68	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Trichloroethylene		1	0.75 U	0.74 UJ	0.73 UJ	1.6 J	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Trichloromethane		1	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,2,3-Trichloropropane		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
1,2,4-Trimethylbenzene		NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
1,3,5-Trimethylbenzene		NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Vinyl acetate		NA	0.75 U	0.74 U	0.73 U	0.75 U	~~0.75~~ U	0.77 U	0.77 U	0.74 U	0.75 U
Vinyl chloride		2	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U
Xylenes, m & p		NA	0.75 U	0.74 UJ	0.73 UJ	0.32 J	~~0.51~~ J	0.77 U	0.77 UJ	0.74 UJ	0.75 U
o-Xylene		NA	0.75 U	0.74 UJ	0.73 UJ	0.75 UJ	~~0.75~~ UJ	0.77 U	0.77 UJ	0.74 UJ	0.75 U

Do not use Strikeout results for interpretation, although these results are not technically rejectable
Shaded results exceed stated criteria
Analyte concentrations in mg/kg (ppm)
Analyses were performed by Chemtech, Inc., using standard analytical methodology

B Analyte is also detected in the laboratory blank
J Result is detected below the reporting limit and/or is an estimated concentration
U Analyte analyzed for but undetected at the corresponding quantitation limit

SB-3A (2.0' - 3.0')	SB-3B (12.0' - 13.0')	SB-3C (15.0' - 16.0')	SB-4A (2.0' - 3.5')	SB-4B (12.5' - 14.0')	SB-4C (15.5' - 17.0')	SB-4E (12.5' - 14.0')	SB-5A (2.0' - 3.0')	SB-5B (12.0' - 13.0')	SB-5C (15.0' - 16.0')	SB-6A (2.0' - 3.0')	SB-6B (12.0' - 13.0')
25-Jun-98	25-Jun-98	25-Jun-98	26-Jun-98	26-Jun-98	26-Jun-98	26-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98
0.98 UJ	0.73 UJ	0.90 UJ	0.65 U	0.57 U	1.6	0.71 U	0.75 UJ	0.70 JB	0.46 UJ	0.74 UJ	0.77 U
0.39 J	0.73 U	0.80 U	0.73 U	0.75 U	0.34 J	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 UJ	0.95 J	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.52 J	2.0 J	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 UJ	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 UJ	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 UJ	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U

SB-3A (2.0' - 3.0')	SB-3B (12.0' - 13.0')	SB-3C (15.0' - 16.0')	SB-4A (2.0' - 3.5')	SB-4B (12.5' - 14.0')	SB-4C (15.5' - 17.0')	SB-4E (12.5' - 14.0')	SB-5A (2.0' - 3.0')	SB-5B (12.0' - 13.0')	SB-5C (15.0' - 16.0')	SB-6A (2.0' - 3.0')	SB-6B (12.0' - 13.0')
25-Jun-98	25-Jun-98	25-Jun-98	26-Jun-98	26-Jun-98	26-Jun-98	26-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.82	0.75 U	0.75 UJ	0.44 J	0.33 J	0.30 J	0.34 J
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.31 J	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.56 J
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.51 J	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 UJ	0.74 UJ	0.74 UJ	0.77 U
0.74 U	0.73 U	0.80 U	0.73 U	0.75 U	0.75 U	0.75 U	0.75 U	0.73 U	0.74 U	0.74 U	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.73 U	0.74 UJ	0.74 UJ	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.90 J	0.79 J	0.45 J	0.77 U
0.74 UJ	0.73 UJ	0.80 UJ	0.73 U	0.75 U	0.75 U	0.75 U	0.75 UJ	0.36 J	0.37 J	0.74 UJ	0.77 U

SB-6C (15.0' - 16.0')	SB-7A (2.0' - 3.0')	SB-7B (12.0' - 13.0')	SB-7C (17.0' - 18.0')
24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98
0.75 U	0.42 U	0.56 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 UJ	0.74 UJ	0.75 UJ
0.75 U	0.77 UJ	0.74 UJ	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 UJ	0.74 UJ	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 UJ	0.74 UJ	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U

SB-6C (15.0' - 16.0')	SB-7A (2.0' - 3.0')	SB-7B (12.0' - 13.0')	SB-7C (17.0' - 18.0')
24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.45 J	0.41 J	0.34 J	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 UJ	0.74 UJ	0.75 UJ
0.75 U	0.77 UJ	0.74 UJ	0.75 UJ
0.75 U	0.77 U	0.74 U	0.75 U
0.75 U	0.77 U	0.74 U	0.75 UJ
0.75 U	0.77 UJ	0.74 UJ	0.75 UJ
0.75 U	0.77 UJ	0.74 UJ	0.75 UJ

Table 6. Concentrations of Indicator Parameters and Metals in Soil Samples Collected in June 1998 at the NJDOT- Fernwood Site, Fernwood, New Jersey.

Analyte	Sample ID:	Unknown Std	SB-1A (2.0' - 3.0')	SB-1B (12.0' - 13.0')	SB-1C (17.0' - 18.0')	SB-1D (23.0' - 24.0')	SB-2A (2.0' - 4.0')	SB-2ARE (2.0' - 3.5')	SB-2B (8.0' - 10.0')	SB-2C (12.0' - 13.5')	SB-2D (16.0' - 17.5')	SB-2E (18.0' - 19.5')	SB-3A (2.0' - 3.0')
	Date:		25-Jun-98	25-Jun-98	25-Jun-98	25-Jun-98	26-Jun-98	27-Jun-98	27-Jun-98	27-Jun-98	27-Jun-98	27-Jun-98	25-Jun-98
Iron, mg/kg (ppm)		NA	35800	30900	19700	37600	NA	NA	12200	36700	41300	70100	16900
Lead, mg/kg (ppm)		400	11.9	11.8	4.1	8.1	NA	NA	10.1	7.7	8.5	19.4	7.0
pH, pH Units		NA	NA	NA	7.5	6.2	NA	NA	NA	5.2	5.7	NA	NA
Redox Potential, Millivolts		NA	NA	NA	710	608	NA	NA	NA	590	489	NA	NA
Total Solids, Percent		NA	82.7	85.1	85.8	72.4	82.8	81.4	81.1	84.5	82.9	66.5	83.8
TOC (Fines), mg/kg (ppm)		NA	NA	NA	233	252	NA	NA	NA	698	300	NA	NA
TOC (Sand), mg/kg (ppm)		NA	NA	NA	176	165	NA	NA	NA	NA	147	NA	NA

Analyte concentrations in units specified
Analyses were performed by Chemtech, Inc., using standard analytical methodology

NA Not applicable

SB-3B (12.0' - 13.0')	SB-3C (15.0' - 16.0')	SB-3D (21.0' - 22.0')	SB-4A (2.0' - 3.5')	SB-4B (12.5' - 14.0')	SB-4C (15.5' - 17.0')	SB-4D (22.0' - 24.0')	SB-4E (12.5' - 14.0')	SB-5A (2.0' - 3.0')	SB-5B (12.0' - 13.0')	SB-5C (15.0' - 16.0')	SB-6A (2.0' - 3.0')	SB-6B (12.0' - 13.0')	SB-6C (15.0' - 16.0')
25-Jun-98	25-Jun-98	25-Jun-98	26-Jun-98	26-Jun-98	26-Jun-98	26-Jun-98	26-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98	24-Jun-98
9330	26500	35600	21800	28800	40200	39000	34700	30100	16700	59100	24200	27300	45000
8.6	10.5	7.6	9.2	7.1	10.7	9.9	7.4	11.7	9.4	13.8	15.5	12	10.6
NA	5.5	5.3	NA	NA	5.0	5.5	NA	NA	NA	NA	NA	NA	NA
NA	666	640	NA	NA	624	615	NA	NA	NA	NA	NA	NA	NA
86.2	78	77	85.9	82.9	82.8	80.7	83.1	82.6	86.4	84.8	85.2	81.2	83.5
NA	652	262	NA	NA	268	219	NA	NA	NA	NA	NA	NA	NA
NA	390	157	NA	NA	188	498	NA	NA	NA	NA	NA	NA	NA

SB-7A (2.0' - 3.0')	SB-7B (12.0' - 13.0')	SB-7C (17.0' - 18.0')
24-Jun-98	24-Jun-98	24-Jun-98
47600	17300	21700
14.5	15.1	7.6
NA	NA	NA
NA	NA	NA
81.4	84.5	83.2
NA	NA	NA
NA	NA	NA

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in January 1999 at the NJDOT Fernwood Complex Fueling Station, Fernwood, New Jersey.

Analyte	Sample ID: / Date:	NJDEP RDC Cleanup Criteria 11-Jul-96	FW-UST3-05 13-Jan-99
Acetone		1000	0.0063 U
Acrolein		NA	0.0063 U
Acrylonitrile		NA	0.0063 U
Bromodichloromethane		11	0.0013 U
Bromobenzene		NA	0.0013 U
Bromochloromethane		NA	0.0022 U
Bromomethane		79	0.0048 U
n-Butylbenzene		NA	0.0022 U
sec-Butylbenzene		NA	0.0015 U
t-Butylbenzene		NA	0.0015 U
Benzene		3	0.0013 U
Toluene		1000	0.0016 U
Carbon disulfide		NA	0.0063 U
2-Chloroethyl vinyl ether		NA	0.0063 U
Chlorobenzene		37	0.0014 U
2-Chlorotoluene		NA	0.0014 U
4-Chlorotoluene		NA	0.0013 U
Chloroethane		NA	0.0063 U
Chloromethane		520	0.0042 U
Carbon tetrachloride		2	0.0051 U
Dibromochloromethane		110	0.00090 U
1,2-Dibromo-3-chloropropane		NA	0.0063 U
Dibromomethane		NA	0.0018 U
1,1-Dichloroethane		570	0.0016 U
1,2-Dichloroethane		6	0.0013 U
1,2-Dichlorobenzene		5100	0.0013 U
1,3-Dichlorobenzene		5100	0.0015 U
1,4-Dichlorobenzene		570	0.0015 U
1,1-Dichloroethene		8	0.0024 U
cis-1,2-Dichloroethene		79	0.0022 U
trans-1,2-Dichloroethene		1000	0.0054 U
1,1-Dichloropropene		NA	0.0014 U
cis-1,3-Dichloropropene		NA	0.0013 U
trans-1,3-Dichloropropene		NA	0.0013 U
1,2-Dichloropropane		10	0.0043 U
1,3-Dichloropropane		NA	0.0015 U
2,2-Dichloropropane		NA	0.0013 U
Ethylbenzene		1000	0.0053
Ethylene dibromide		NA	0.0020 U
Trichlorofluoromethane		NA	0.0015 U

(Cont. on next page)

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in January 1999 at the NJDOT Fernwood Complex Fueling Station, Fernwood, New Jersey.

Analyte	Sample ID: / Date:	NJDEP RDC Cleanup Criteria 11-Jul-96	FW-UST3-05 13-Jan-99
Dichlorodifluoromethane		NA	0.0021 U
Hexachlorobutadiene		1	0.0013 U
2-Hexanone		NA	0.0063 U
Isopropylbenzene ((Cumene)		NA	0.0054
p-Isopropyltoluene		NA	0.0011 U
4-Methyl-2-pentanone		1000	0.0063 U
Methyl ethyl ketone		NA	0.0063 U
Methylene chloride		49	0.0038
Naphthalene		230	0.0030 U
n-Propylbenzene		NA	0.0016 U
1,1,2,2-Tetrachloroethane		34	0.0020 U
Tetrachloroethene		4	0.0014 U
Styrene		23	0.00030 U
Tribromomethane		86	0.00060 U
1,1,1,2-Tetrachloroethane		NA	0.0015 U
1,1,1-Trichloroethane		210	0.0011 U
1,1,2-Trichloroethane		22	0.0017 U
1,2,3-Trichlorobenzene		NA	0.0018 U
1,2,4-Trichlorobenzene		68	0.0015 U
Trichloroethylene		23	0.0033 U
Trichloromethane		19	0.0015 U
1,2,3-Trichloropropane		NA	0.0032 U
1,2,4-Trimethylbenzene		NA	0.017
1,3,5-Trimethylbenzene		NA	0.0020 U
Vinyl acetate		NA	0.0063 U
Vinyl chloride		2	0.0024 U
Xylenes, m & p		NA	0.0029 U
o-Xylene		NA	0.0015 U

Analyte concentrations in mg/kg (ppm)
Analyses were performed by Chemtech, Inc., using USEPA CLP SOW (3/90 and revisions)/VOA

U Analyte analyzed for but undetected at the corresponding quantitation limit

Table 3. Concentrations of Metals in Groundwater Samples Collected in January 1999 at the NJDOT Fernwood Complex Fueling Station, Fernwood, New Jersey.

Sample ID:	NJDEP GW Std or PQL	FW-DW01
Analy Date:	18-Mar-96	13-Jan-99
Lead	10	4.4

Analyte concentrations in ug/L (ppb)
Analyses were performed by Chemtech, Inc., using USEPA CLP SOW (3/90 and revisions)/MT

Table 4. Concentrations of Petroleum Hydrocarbons in Soil Samples Collected in January 1999 at the NJDOT Fernwood Complex Fueling Station, Fernwood, New Jersey.

	Sample ID:	NJDEP RDC Cleanup Criteria	FW-UST3-01	FW-UST3-02	FW-UST3-03	FW-UST3-04	FW-UST3-05	FW-UST3-06
Analyte	Date:	11-Jul-96	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99
Petroleum hydrocarbons		NA	39.4 U	40.7 U	40.1 U	40.5 U	109	40.2 U

Analyte concentrations in mg/kg (ppm)
Analyses were performed by Chemtech, Inc., using USEPA 418.1 (modified for soils)

U Analyte analyzed for but undetected at the corresponding detection limit

Table 5. Concentrations of Indicator Parameters in Soil Samples Collected in January 1999 at the NJDOT Fernwood Complex Fueling Station, Fernwood, New Jersey.

	Sample ID:	NJDEP RDC Cleanup Criteria	FW-UST3-01	FW-UST3-02	FW-UST3-03	FW-UST3-04	FW-UST3-05	FW-UST3-06
Analyte	Date:	11-Jul-96	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99	13-Jan-99
Total Solids		NA	84.6	81.9	83	82.3	79.2	82.8

Analyte concentrations in Percent
Analyses were performed by Chemtech, Inc., using USEPA 160.3 Modified

Table 2. *Concentrations of Volatile Organic Compounds in Soil Samples Collected in December 1998 at NJDOT-Fernwood*

Analyte	Sample ID: / Date:	NJDEP RDC Cleanup Criteria 11-Jul-96	FWUST1-P01 (0.0' - 6.0') 01-Dec-98	FWUST1-P01 (0.0' - 6.0') Run 2 01-Dec-98	FWUST1-P02 (0.0' - 6.0') 01-Dec-98	FWUST1-P03 (0.0' - 6.0') 01-Dec-98	FWUST1-P04 (0.0' - 6.0') 01-Dec-98	FWUST2-P01 (1.8' - 2.0') 01-Dec-98	FWUST2-P01 (1.8' - 2.0') Run 2 01-Dec-98	FWUST2-P02 (0.0' - 6.0') 01-Dec-98
Acetone		1000	~~0.69~~ UJ	4.4 D	0.72 U	0.73 U	0.72 U	~~0.74~~ UJ	16 JD	0.24 J
Acrolein		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
Acrylonitrile		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
Bromodichloromethane		11	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
Bromobenzene		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
Bromochloromethane		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
Bromomethane		79	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
n-Butylbenzene		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
sec-Butylbenzene		NA	1.2	~~3.4~~ UD	0.72 U	0.73 U	0.56 J	3.0	~~37~~ UD	2.9
t-Butylbenzene		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
Benzene		3	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
Toluene		1000	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.58 J	12 J	~~37~~ UD	~~32~~ EJ
Carbon disulfide		NA	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
2-Chloroethyl vinyl ether		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
Chlorobenzene		37	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
2-Chlorotoluene		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
4-Chlorotoluene		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
Chloroethane		NA	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
Chloromethane		520	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
Carbon tetrachloride		2	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
Dibromochloromethane		110	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.34 J
1,2-Dibromo-3-chloropropane		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
Dibromomethane		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
1,1-Dichloroethane		570	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
1,2-Dichloroethane		6	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
1,2-Dichlorobenzene		5100	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
1,3-Dichlorobenzene		5100	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
1,4-Dichlorobenzene		570	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
1,1-Dichloroethene		8	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	~~37~~ UD	0.69 UJ
cis-1,2-Dichloroethene		79	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
trans-1,2-Dichloroethene		1000	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
1,1-Dichloropropene		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	~~37~~ UD	0.69 U
cis-1,3-Dichloropropene		NA	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
trans-1,3-Dichloropropene		NA	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,2-Dichloropropane		10	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,3-Dichloropropane		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
2,2-Dichloropropane		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Ethylbenzene		1000	0.26 J	~~3.4~~ UD	0.72 U	0.73 U	2.2	13 J	13 JD	~~39~~ EJ
Ethylene dibromide		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Trichlorofluoromethane		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U

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Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in December 1998 at NJDOT-Fernwood

Analyte	Sample ID: / Date:	NJDEP RDC Cleanup Criteria 11-Jul-96	FWUST1-P01 (0.0' - 6.0') 01-Dec-98	FWUST1-P01 (0.0' - 6.0') Run 2 01-Dec-98	FWUST1-P02 (0.0' - 6.0') 01-Dec-98	FWUST1-P03 (0.0' - 6.0') 01-Dec-98	FWUST1-P04 (0.0' - 6.0') 01-Dec-98	FWUST2-P01 (1.8' - 2.0') 01-Dec-98	FWUST2-P01 (1.8' - 2.0') Run 2 01-Dec-98	FWUST2-P02 (0.0' - 6.0') 01-Dec-98
Dichlorodifluoromethane		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Hexachlorobutadiene		1	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
2-Hexanone		NA	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Isopropylbenzene ((Cumene)		NA	~~1.5~~	1.7 JD	0.72 U	0.73 U	0.99	20	20 JD	~~21~~ EJ
p-Isopropyltoluene		NA	~~1.2~~	1.3 JD	0.72 U	0.73 U	0.72 U	2.4	37 UD	2.2
4-Methyl-2-pentanone		1000	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Methyl ethyl ketone		NA	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Methylene chloride		49	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Naphthalene		230	~~7.2~~	8.2 D	0.72 U	0.73 U	2.5	36 EJ	36 JD	~~20~~ EJ
n-Propylbenzene		NA	1.1	~~3.4~~ UD	0.72 U	0.73 U	2.4	13	37 UD	~~25~~ EJ
1,1,2,2-Tetrachloroethane		34	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Tetrachloroethene		4	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Styrene		23	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Tribromomethane		86	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,1,1,2-Tetrachloroethane		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
1,1,1-Trichloroethane		210	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,1,2-Trichloroethane		22	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,2,3-Trichlorobenzene		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
1,2,4-Trichlorobenzene		68	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Trichloroethylene		23	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Trichloromethane		19	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
1,2,3-Trichloropropane		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
1,2,4-Trimethylbenzene		NA	~~43~~ EJ	85 D	0.37 J	0.39 J	12	62 EJ	270 D	~~54~~ EJ
1,3,5-Trimethylbenzene		NA	~~27~~ EJ	32 D	0.45 J	0.53 J	4.0	38 EJ	84 D	~~38~~ EJ
Vinyl acetate		NA	0.69 U	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 U	37 UD	0.69 U
Vinyl chloride		2	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	0.72 U	0.74 UJ	37 UD	0.69 UJ
Xylenes, m & p		NA	5.4 J	~~5.1~~ D	0.72 U	0.73 U	7.3	120 EJ	200 D	~~160~~ EJ
o-Xylene		NA	0.69 UJ	~~3.4~~ UD	0.72 U	0.73 U	2.2	61 EJ	90 D	~~67~~ EJ

Do not use Strikeout results for interpretation, although these results are not technically rejectable

Analyte concentrations in mg/kg (ppm)
Analyses were performed by Chemtech, Inc., using USEPA SW846 8260

D Analyte identified at a secondary dilution
E Concentration exceeds calibration range
J Result is detected below the reporting limit and/or is an estimated concentration
U Analyte analyzed for but undetected at the corresponding quantitation limit

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in December 1998 at NJDOT-Fernwood

Analyte	Sample ID: / Date:	NJDEP RDC Cleanup Criteria 11-Jul-96	FWUST2-P02 (0.0' - 6.0') Run 2 01-Dec-98	FWUST2-P03 (1.8' - 2.0') 01-Dec-98	FWUST2-P03 (1.8' - 2.0') Run 2 01-Dec-98	FWUST2-P04 (0.0' - 6.0') 01-Dec-98	FWUST3-P03 (0.0' - 6.0') 01-Dec-98
Acetone		1000	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Acrolein		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Acrylonitrile		NA	~~34~~ UD	0.75 U	~~3.2~~ JD	0.71 U	0.72 U
Bromodichloromethane		11	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Bromobenzene		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Bromochloromethane		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Bromomethane		79	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
n-Butylbenzene		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
sec-Butylbenzene		NA	~~34~~ UD	~~1.0~~	1.4 JD	0.71 U	1.4
t-Butylbenzene		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Benzene		3	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Toluene		1000	25 JD	~~1.0~~	1.4 JD	0.71 U	0.72 U
Carbon disulfide		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
2-Chloroethyl vinyl ether		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Chlorobenzene		37	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
2-Chlorotoluene		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
4-Chlorotoluene		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Chloroethane		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Chloromethane		520	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Carbon tetrachloride		2	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Dibromochloromethane		110	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,2-Dibromo-3-chloropropane		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Dibromomethane		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,1-Dichloroethane		570	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,2-Dichloroethane		6	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,2-Dichlorobenzene		5100	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,3-Dichlorobenzene		5100	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,4-Dichlorobenzene		570	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,1-Dichloroethene		8	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
cis-1,2-Dichloroethene		79	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
trans-1,2-Dichloroethene		1000	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,1-Dichloropropene		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
cis-1,3-Dichloropropene		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
trans-1,3-Dichloropropene		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,2-Dichloropropane		10	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,3-Dichloropropane		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
2,2-Dichloropropane		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Ethylbenzene		1000	53 D	~~5.8~~	5.8 D	0.71 U	3.6
Ethylene dibromide		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Trichlorofluoromethane		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U

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Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in December 1998 at NJDOT-Fernwood

Analyte	Sample ID: / Date:	NJDEP RDC Cleanup Criteria 11-Jul-96	FWUST2-P02 (0.0' - 6.0') Run 2 01-Dec-98	FWUST2-P03 (1.8' - 2.0') 01-Dec-98	FWUST2-P03 (1.8' - 2.0') Run 2 01-Dec-98	FWUST2-P04 (0.0' - 6.0') 01-Dec-98	FWUST3-P03 (0.0' - 6.0') 01-Dec-98
Dichlorodifluoromethane		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Hexachlorobutadiene		1	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
2-Hexanone		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Isopropylbenzene ((Cumene)		NA	25 JD	~~3.1~~	3.5 JD	0.71 U	9.0
p-Isopropyltoluene		NA	~~34~~ UD	~~0.93~~	2.7 JD	0.71 U	3.8
4-Methyl-2-pentanone		1000	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Methyl ethyl ketone		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Methylene chloride		49	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Naphthalene		230	18 JD	6.1	~~3.6~~ JD	0.71 U	11
n-Propylbenzene		NA	26 JD	~~4.4~~	4.4 D	0.71 U	3.3
1,1,2,2-Tetrachloroethane		34	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Tetrachloroethene		4	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Styrene		23	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Tribromomethane		86	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,1,1,2-Tetrachloroethane		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,1,1-Trichloroethane		210	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,1,2-Trichloroethane		22	~~34~~ UD	0.34 J	~~3.8~~ UD	0.71 U	0.72 U
1,2,3-Trichlorobenzene		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,2,4-Trichlorobenzene		68	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Trichloroethylene		23	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Trichloromethane		19	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,2,3-Trichloropropane		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
1,2,4-Trimethylbenzene		NA	290 D	~~44~~ EJ	54 D	1.6	2.7
1,3,5-Trimethylbenzene		NA	89 D	20	~~19~~ D	0.68 J	14
Vinyl acetate		NA	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Vinyl chloride		2	~~34~~ UD	0.75 U	~~3.8~~ UD	0.71 U	0.72 U
Xylenes, m & p		NA	330 D	~~48~~ EJ	47 D	1.1	6.6
o-Xylene		NA	130 D	~~16~~	16 D	0.54 J	0.52 J

Do not use Strikeout results for interpretation, although these results are not technically rejectable

Analyte concentrations in mg/kg (ppm)
Analyses were performed by Chemtech, Inc., using USEPA SW846 8260

D Analyte identified at a secondary dilution
E Concentration exceeds calibration range
J Result is detected below the reporting limit and/or is an estimated concentration
U Analyte analyzed for but undetected at the corresponding quantitation limit

Table 2. Concentrations of Volatile Organic Compounds in Water QC Samples Collected in December 1998 at NJDOT-Fernwood

Analyte	Sample ID: / Date:	NJDEP RDC Cleanup Criteria 11-Jul-96	Field Blank 01-Dec-98	Trip Blank 01-Dec-98
Acetone		1000	5.0 U	0.63 U
Acrolein		NA	5.0 U	0.63 U
Acrylonitrile		NA	5.0 U	0.63 U
Bromodichloromethane		11	0.60 U	0.63 U
Bromobenzene		NA	0.70 U	0.63 U
Bromochloromethane		NA	0.90 U	0.63 U
Bromomethane		79	2.0 U	0.63 U
n-Butylbenzene		NA	1.0 U	0.63 U
sec-Butylbenzene		NA	0.60 U	0.63 U
t-Butylbenzene		NA	0.70 U	0.63 U
Benzene		3	0.90 U	0.63 U
Toluene		1000	1.0 U	0.63 U
Carbon disulfide		NA	5.0 U	0.63 U
2-Chloroethyl vinyl ether		NA	5.0 U	0.63 U
Chlorobenzene		37	0.90 U	0.63 U
2-Chlorotoluene		NA	1.0 U	0.63 U
4-Chlorotoluene		NA	0.90 U	0.63 U
Chloroethane		NA	2.0 U	0.63 U
Chloromethane		520	2.0 U	0.63 U
Carbon tetrachloride		2	2.0 U	0.63 U
Dibromochloromethane		110	1.0 U	0.63 U
1,2-Dibromo-3-chloropropane		NA	1.0 U	0.63 U
Dibromomethane		NA	0.90 U	0.63 U
1,1-Dichloroethane		570	0.40 U	0.63 U
1,2-Dichloroethane		6	0.90 U	0.63 U
1,2-Dichlorobenzene		5100	0.80 U	0.63 U
1,3-Dichlorobenzene		5100	1.0 U	0.63 U
1,4-Dichlorobenzene		570	1.0 U	0.63 U
1,1-Dichloroethene		8	0.60 U	0.63 U
cis-1,2-Dichloroethene		79	0.80 U	0.63 U
trans-1,2-Dichloroethene		1000	0.70 U	0.63 U
1,1-Dichloropropene		NA	0.70 U	0.63 U
cis-1,3-Dichloropropene		NA	0.10 U	0.63 U
trans-1,3-Dichloropropene		NA	0.20 U	0.63 U
1,2-Dichloropropane		10	1.0 U	0.63 U
1,3-Dichloropropane		NA	0.90 U	0.63 U
2,2-Dichloropropane		NA	1.0 U	0.63 U
Ethylbenzene		1000	0.90 U	0.63 U
Ethylene dibromide		NA	1.0 U	0.63 U
Trichlorofluoromethane		NA	1.0 U	0.63 U

(Cont. on next page)

Table 3. *Concentrations of Metals in Soil Samples Collected in December 1998 at NJDOT-Fernwood*

Sample ID:	NJDEP RDC Cleanup Criteria	FWUST1-P01 (0.0' - 6.0')	FWUST1-P02 (0.0' - 6.0')	FWUST1-P03 (0.0' - 6.0')	FWUST1-P04 (0.0' - 6.0')	FWUST2-P01 (1.8' - 2.0')	FWUST2-P02 (0.0' - 6.0')	FWUST2-P03 (1.8' - 2.0')	FWUST2-P04 (0.0' - 6.0')
Analy Date:	11-Jul-96	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98	01-Dec-98
Lead	400	1.8	2.3	8.3	9.3	2.2	2.0	3.5	3.0

Analyte concentrations in mg/kg (ppm)
Analyses were performed by Chemtech, Inc., using SW846 6010

Table 4. Concentrations of Indicator Parameters in Soil Samples Collected in December 1998 at NJDOT-Fernwood

Analyte	Sample ID: / Date:	NJDEP RDC Cleanup Criteria 11-Jul-96	FWUST1-P01 (0.0' - 6.0') 01-Dec-98	FWUST1-P02 (0.0' - 6.0') 01-Dec-98	FWUST1-P03 (0.0' - 6.0') 01-Dec-98	FWUST1-P04 (0.0' - 6.0') 01-Dec-98	FWUST2-P01 (1.8' - 2.0') 01-Dec-98	FWUST2-P02 (0.0' - 6.0') 01-Dec-98	FWUST2-P03 (1.8' - 2.0') 01-Dec-98	FWUST2-P04 (0.0' - 6.0') 01-Dec-98	FWUST3-P01 (0.0' - 6.0') 01-Dec-98	FWUST3-P02 (0.0' - 6.0') 01-Dec-98
Petroleum hydrocarbons, mg/kg (ppm)		NA	NA	NA	NA	NA	NA	NA	NA	NA	6760	7860
Total Solids, Percent		NA	91.4	87	86	86.7	83.9	91.3	83.1	88.1	89.8	85.9

Analyte concentrations in units specified
Analyses were performed by Chemtech, Inc., using standard analytical methodology

NA Not applicable

Table 4. *Concentrations of Indicator Parameters in Soil Samples Collected in December 1998 at NJDOT-Fernwood*

Analyte	Sample ID: / Date:	NJDEP RDC Cleanup Criteria 11-Jul-96	FWUST3-P03 (0.0' - 6.0') 01-Dec-98	FWUST3-P04 (0.0' - 6.0') 01-Dec-98
Petroleum hydrocarbons, mg/kg (ppm)		NA	14800	578
Total Solids, Percent		NA	87.5	86.4

Analyte concentrations in units specified
Analyses were performed by Chemtech, Inc., using standard analytical methodology

NA Not applicable

Table 2. Concentrations of Volatile Organic Compounds in Soil Samples Collected in January 1999 at the NJDOT-Fernwood Site, Fernwood, New Jersey.

Analyte	Sample ID: / Date:	NJDEP RDC Cleanup Criteria 11-Jul-96	FW-PEX-01 22-Jan-99	FW-PEX-02 22-Jan-99	FW-PEX-03 22-Jan-99	FW-PEX-04 22-Jan-99	FW-PEX-05 22-Jan-99
Acetone		1000	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Bromodichloromethane		11	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Bromomethane		79	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
tert-Butyl alcohol		NA	6.9 U	7.5 U	6.9 U	7.5 U	7.4 U
Benzene		3	0.69 U	1.2	0.69 U	0.75 U	0.74 U
Toluene		1000	0.69 U	15.2	0.69 U	0.75 U	2.1
Carbon disulfide		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Chlorobenzene		37	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Chloroethane		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Chloromethane		520	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Carbon tetrachloride		2	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Dibromochloromethane		110	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,1-Dichloroethane		570	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,2-Dichloroethane		6	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,1-Dichloroethene		8	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
cis-1,2-Dichloroethene		79	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
trans-1,2-Dichloroethene		1000	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
cis-1,3-Dichloropropene		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
trans-1,3-Dichloropropene		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,2-Dichloropropane		10	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Ethylbenzene		1000	0.69 U	7.6	0.69 U	0.75 U	0.45 J
2-Hexanone		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
4-Methyl-2-pentanone		1000	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Methyl ethyl ketone		NA	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Methylene chloride		49	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,1,2,2-Tetrachloroethane		34	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Tetrachloroethene		4	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Styrene		23	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Tribromomethane		86	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
tert-Butyl methyl ether		NA	0.69 U	15.3	0.69 U	0.75 U	0.74 U
1,1,1-Trichloroethane		210	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
1,1,2-Trichloroethane		22	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Trichloroethylene		23	0.38 J	0.75 U	0.69 U	0.75 U	0.74 U
Trichloromethane		19	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Vinyl chloride		2	0.69 U	0.75 U	0.69 U	0.75 U	0.74 U
Xylenes, m & p		NA	0.69 U	44.4	0.69 U	0.75 U	45.5
o-Xylene		NA	0.69 U	16.2	0.69 U	0.75 U	29.6

Analyte concentrations in mg/kg (ppm)
Analyses were performed by Chemtech, Inc., using SW846 8260

J Result is detected below the reporting limit and/or is an estimated concentration
U Analyte analyzed for but undetected at the corresponding quantitation limit

Table 2. Concentrations of Volatile Organic Compounds in Water QC Samples Collected in January 1999 at the NJDOT-Fernwood Site, Fernwood, New Jersey.

Analyte	Sample ID: Field Blank Date: 22-Jan-99	Trip Blank 22-Jan-99
Acetone	5.0 U	0.63 U
Bromodichloromethane	0.60 U	0.63 U
Bromomethane	1.7 U	0.63 U
ert-Butyl alcohol	50 U	6.3 U
Benzene	0.90 U	0.63 U
Toluene	1.0 U	0.63 U
Carbon disulfide	5.0 U	0.63 U
Chlorobenzene	0.90 U	0.63 U
Chloroethane	2.0 U	0.63 U
Chloromethane	1.8 U	0.63 U
Carbon tetrachloride	1.5 U	0.63 U
Dibromochloromethane	1.0 U	0.63 U
,1-Dichloroethane	0.40 U	0.63 U
,2-Dichloroethane	0.90 U	0.63 U
,1-Dichloroethene	0.60 U	0.63 U
is-1,2-Dichloroethene	0.80 U	0.63 U
rans-1,2-Dichloroethene	0.70 U	0.63 U
is-1,3-Dichloropropene	0.10 U	0.63 U
rans-1,3-Dichloropropene	0.20 U	0.63 U
2-Dichloropropane	1.0 U	0.63 U
thylbenzene	0.90 U	0.63 U
Hexanone	5.0 U	0.63 U
Methyl-2-pentanone	5.0 U	0.63 U
ethyl ethyl ketone	5.0 U	0.63 U
ethylene chloride	0.70 U	0.63 U
,2,2-Tetrachloroethane	1.1 U	0.63 U
trachloroethene	0.90 U	0.63 U
ene	0.50 U	0.63 U
bromomethane	0.50 U	0.63 U
t-Butyl methyl ether	5.0 U	0.63 U
,1-Trichloroethane	0.90 U	0.63 U
,2-Trichloroethane	0.90 U	0.63 U
chloroethylene	1.0 U	0.63 U
chloromethane	0.80 U	0.63 U
nyl chloride	1.3 U	0.63 U
lenes, m & p	1.3 U	0.63 U
Xylene	0.90 U	0.63 U

alyte concentrations in ug/L (ppb)
alyses were performed by Chemtech, Inc., using SW846 8260

Analyte analyzed for but undetected at the corresponding quantitation limit

Table 3. Concentrations of Metals in Soil Samples Collected in January 1999 at the NJDOT-Fernwood Site, Fernwood, New Jersey.

Sample ID:	NJDEP RDC Cleanup Criteria	FW-PEX-01	FW-PEX-02	FW-PEX-03	FW-PEX-04	FW-PEX-05
Analy Date:	11-Jul-96	22-Jan-99	22-Jan-99	22-Jan-99	22-Jan-99	22-Jan-99
Lead	400	6.5	9.3	1.2 J	21.2	14.6

Analyte concentrations in mg/kg (ppm)
Analyses were performed by Chemtech, Inc., using SW846 6010

J Result is an estimated concentration

Table 4. Concentrations of Petroleum hydrocarbons in Soil Samples Collected in January 1999 at the NJDOT-Fernwood Site, Fernwood, New Jersey.

	Sample ID:	NJDEP RDC Cleanup Criteria	FW-PEX-01	FW-PEX-02	FW-PEX-03	FW-PEX-04	FW-PEX-05
Analyte	Date:	11-Jul-96	22-Jan-99	22-Jan-99	22-Jan-99	22-Jan-99	22-Jan-99
Petroleum hydrocarbons		NA	36.9 U	738	42.4	168	378

Analyte concentrations in mg/kg (ppm)
Analyses were performed by Chemtech, Inc., using USEPA 418.1 (modified for soils)

U Analyte analyzed for but undetected at the corresponding detection limit

Table 1

NJDOT

Fernwood Maintenance Facility and Office Complex

Ewing, New Jersey

Monitoring Well Analytical Data Summary - Nov. 2021

			Location ID	MW-1P	MW-1D	MW-2DD	MW-2P	MW-3		MW-3P	MW-5	MW-8	MW-10	MW-12	MW-13	MW-14D	MW-15	MW-16	MW-19	MW-35S	MW-35D	MW-37	MW-39	MW-40
			Sample ID	MW-1P	MW-1D	MW-2DD	MW-2P	MW-3	DUP01	MW-3P	MW-5	MW-8	MW-10	MW-12	MW-13	MW-14D	MW-15	MW-16	MW-19	MW-35S	MW-35D	MW-37	MW-39	MW-40
			Laboratory ID	AD27434-016	AD27434-013	AD27434-015	AD27409-004	AD27434-001	AD27434-002	AD27434-004	AD27409-007	AD27409-008	AD27434-014	AD27434-010	AD27409-010	AD27434-012	AD27409-011	AD27434-011	AD27409-001	AD27409-003	AD27409-002	AD27409-005	AD27434-005	AD27434-018
			Sample Date	11/16/2021	11/16/2021	11/16/2021	11/15/2021	11/16/2021	11/16/2021	11/16/2021	11/15/2021	11/15/2021	11/16/2021	11/16/2021	11/15/2021	11/16/2021	11/15/2021	11/16/2021	11/15/2021	11/15/2021	11/15/2021	11/15/2021	11/16/2021	11/16/2021
			Sample Depth (ft bgs)	23.00	41.90	40.98	18.41	20.08	20.08	20.00	20.94	21.10	20.37	20.88	20.47	40.86	20.84	20.83	20.72	15.66	34.16	20.25	39.70	36.13
Analyte	*GWQS*	*GWSL*																						
VOCs																								
1,1-Dichloroethene	1	26		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NC	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	9	130		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	600	6800		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	2	230		0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
1,2-Dichloropropane	1	11		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	600	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75	21000		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	40	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	6000	21000000		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	23		**430**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**8.6**	0.5 U
Bromochloromethane	NC	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	1	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	4	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	10	20		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	700	1500		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	1	1		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	50	770		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NC	26000		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	70	1000		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Chloromethane	NC	240		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	70	NC		1 U	1 U	**1.7**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,3-Dichloropropene	NC	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	NC	16000		**20**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.5**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	1	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	1000	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	700		**34**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	700	NC		**38**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**3.7**	1 U
M,P-Xylene	NC	NC		**39**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Acetate	7000	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Ethyl Ketone (2-Butanone)	300	2500000		**5.7**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NC	900000		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylcyclohexane	NC	NC		**8.8**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	2600		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	NC	NC		**2.1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.8**	1 U	1 U	1 U	1 U	1 U	**20**	1 U
Styrene	100	180000		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-Butyl Alcohol	100	NC		5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**49**	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tert-Butyl Methyl Ether	70	690		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.74**
Tetrachloroethylene (Pce)	1	36		1 U	1 U	**9**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.4**	1 U	1 U	**4.5**
Toluene	600	330000		**5.6**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	100	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	NC	NC		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethylene (Tce)	1	1		1 U	1 U	**1.8**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	NC	NC		1 U	**1.1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	1	1		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	NC	7800		**41**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.9**	1 U	1 U	1 U	1 U	1 U	**20**	1 U
Sum of Non Target VOCs	NC	NC		**500 J**	ND	ND	**4.5 J**	**15 J**	**15 J**	**8.1 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**13 J**	ND

Notes:

- All results are presented in ug/l (ppb)
- GWQS = New Jersey Groundwater Quality Standard, June 2020
- GWSL = New Jersey Vapor Intrusion Guidance Ground Water Screening Levels, May 2021
- NA = Not Analyzed
- NC = No Criteria
- ND = Non-Detect
- J = Compound detected below the quantitation limit
- U = Compound was not detected

- Bold values indicated positive detections

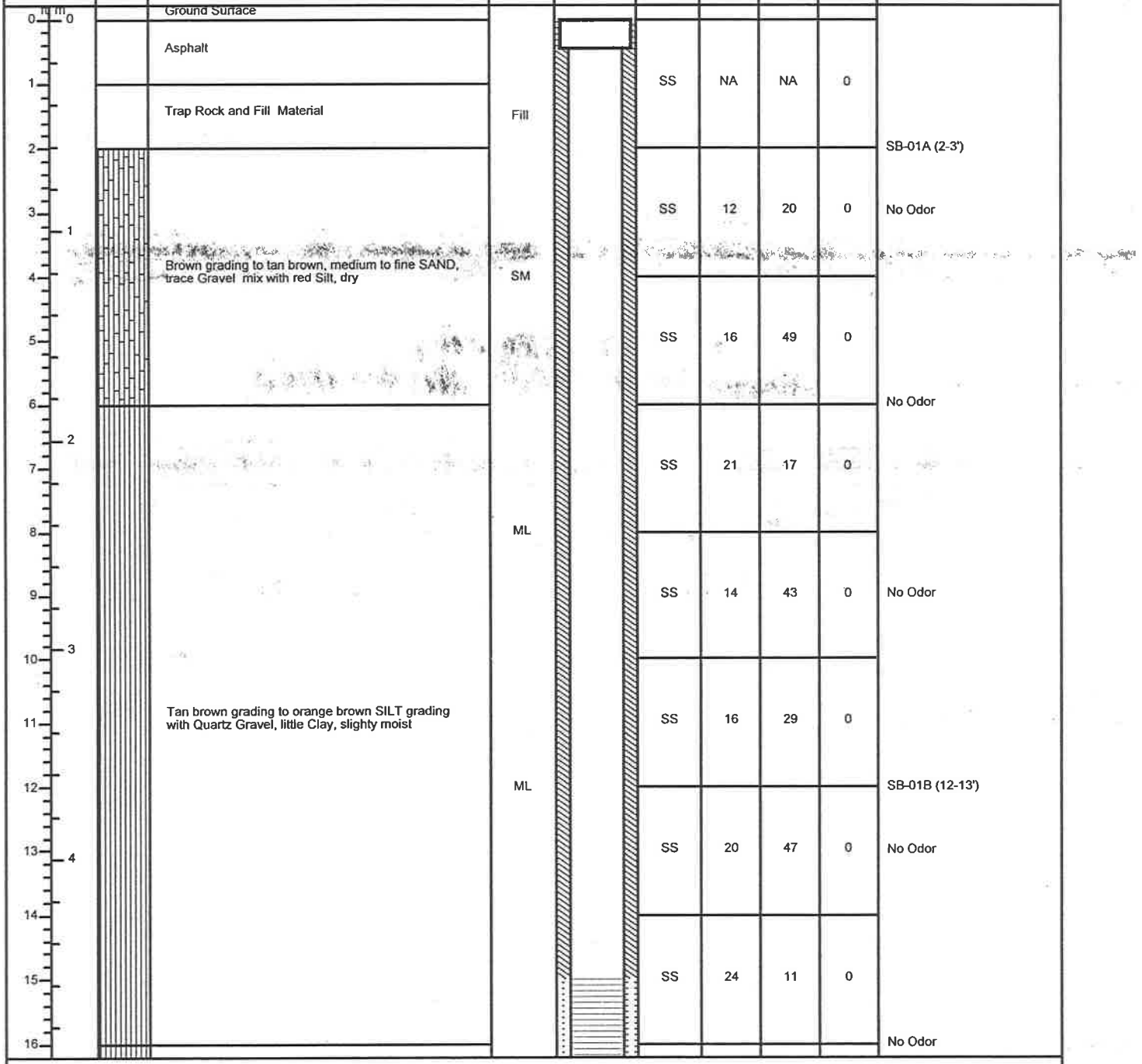
- Shaded values exceed the GWQS

- Shaded values exceed both the GWQS and GWSL

BEM SYSTEMS, INC.

Project No: 1250-22
Client: NJDOT
Location: Fernwood
Property Owner: NJDOT
Date Started: 6/25/99
Date Completed: 6/25/99
Logged By: C. Stebbins

Borehole Number: SB-01/MW-01
Ground Surface Elevation: NA
State Plane Coordinates: NA
Total Depth Drilled: 26 feet
Well Set Depth: 25 feet
Depth to Groundwater: 18 feet
Date/Time of Measurement: 6/25/99 10:00



Drilling Company: CT & E
Driller(s): L. Lynch. & J. Lewis
Rig Type: Mobile B-61
Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
Sampling Method: Splitspoon
Hammer/Fall: 140 lbs/ 30"
Sheet: 1 of 2

Scr. Length/Diam.: 10 feet
Slot Size: 0.01
Gravel Type: #1 Moraine
Flush/Stick Up: Flush

BEM SYSTEMS, INC.

Project No: 1250-22
Client: NJDOT
Location: Fernwood
Property Owner: NJDOT
Date Started: 6/25/99
Date Completed: 6/25/99
Logged By: C. Stebbins

Borehole Number: SB-01/MW-01
Ground Surface Elevation: NA
State Plane Coordinates: NA
Total Depth Drilled: 26 feet
Well Set Depth: 25 feet
Depth to Groundwater: 18 feet
Date/Time of Measurement: 6/25/99 10:00

SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PID (ppm)	Remarks/ Analytical Samples
5 / 17		Orange brown coarse to fine GRAVEL, some Silt, moist	ML		SS	24	19	0	SB-01C (17-18')
18 / 19					SS	18	18	0	
6 / 20		Orange brown SILT and coarse to fine SAND, some Gravel, wet	ML						No Odor
21					SS	20	26	0	
22									No Odor
7 / 23		Orange brown coarse to fine SAND, some Gravel. little Silt, wet.	SP		SS	18	28	0	SB-01D (23-24')
24		Dark red SILT, some Clay, wet.	ML						No Odor
25		Orange brown,coarse to fine SAND, some Gravel, little Silt, wet.	SM		SS	24	75	0	
26 / 8		End of Borehole							
27 / 28 / 29 / 9 / 30 / 31 / 32									

Drilling Company: CT & E
Driller(s): L. Lynch. & J. Lewis
Rig Type: Mobile B-61
Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
Sampling Method: Splitspoon
Hammer/Fall: 140 lbs/ 30"
Sheet: 2 of 2

Scr. Length/Diam.: 10 feet
Slot Size: 0.01
Gravel Type: #1 Moraine
Flush/Stick Up: Flush

BEM SYSTEMS, INC.

Project No: 1250-22
Client: NJDOT
Location: Fernwood
Property Owner: NJDOT
Date Started: 6/26/99
Date Completed: 6/26/99
Logged By: R. Glover

Borehole Number: SB-02/MW-02
Ground Surface Elevation: NA
State Plane Coordinates: NA
Total Depth Drilled: 22 feet
Well Set Depth: 22 feet
Depth to Groundwater: 14.2 feet
Date/Time of Measurement: 6/26/99 10:30

SUBSURFACE PROFILE					SAMPLE				
Depth (ft / m)	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PID (ppm)	Remarks/ Analytical Samples
0 / 0		Ground Surface							
		Asphalt			SS	NA	NA	0	
1		Trap Rock and Fill Material	Fill						
2		Brown fine SAND and CLAY, little Gravel and Clay, moist	SC		SS	22	6	0	SB-02A (2-3') Utility Severed
3 / 1									
4		Gray SILT, trace of fine Sand, moist	SM		SS	15	10	0	
5									
6		Brown fine silty SAND, grading to Silt, moist.	ML		SS	24	29	0	No Odor
7 / 2									
8		Brown to red brown silty SAND, trace of Silt and Clay, moist	SM		SS	14	44	0	SB-02B (8-9') No Odor
9									
10 / 3					SS	21	32	0	
11									
12		Brown to yellow fine medium SAND, trace of Gravel, occasional fine Sand lens	SM		SS	21	26	0	SB-02C (12-13') No Odor
13 / 4									
14					SS	24	9	0	No Odor
15									
16									

Drilling Company: CT & E
Driller(s): L. Lynch. & J. Lewis
Rig Type: Mobile B-61
Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
Sampling Method: Splitspoon
Hammer/Fall: 140 lbs/ 30"
Sheet: 1 of 2

Scr. Length/Diam.: 10 feet
Slot Size: 0.01
Gravel Type: #1 Moraine
Flush/Stick Up: Flush

BEM SYSTEMS, INC.

Project No: 1250-22
Client: NJDOT
Location: Fernwood
Property Owner: NJDOT
Date Started: 6/26/99
Date Completed: 6/26/99
Logged By: R. Glover

Borehole Number: SB-02/MW-02
Ground Surface Elevation: NA
State Plane Coordinates: NA
Total Depth Drilled: 22 feet
Well Set Depth: 22 feet
Depth to Groundwater: 14.2 feet
Date/Time of Measurement: 6/26/99 10:30

SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PID (ppm)	Remarks/ Analytical Samples
17		Red brown to yellow brown fine medium silty SAND, some Sand lens with Gravel, wet.	SM		SS	24	10	0	SB-02D (17-18')
18									SB-02E (18-19')
19					SS	23	8	0	No Odor
20									
21			SM		SS	22	27	0	No Odor
22		End of Borehole							
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

5 6 7 8 9

Drilling Company: CT & E
Driller(s): L. Lynch. & J. Lewis
Rig Type: Mobile B-61
Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
Sampling Method: Splitspoon
Hammer/Fall: 140 lbs/ 30"
Sheet: 2 of 2

Scr. Length/Diam.: 10 feet
Slot Size: 0.01
Gravel Type: #1 Moraine
Flush/Stick Up: Flush

BEM SYSTEMS, INC.

Project No: 1250-22
Client: NJDOT
Location: Fernwood
Property Owner: NJDOT
Date Started: 6/25/99
Date Completed: 6/25/99
Logged By: C. Stebbins

Borehole Number: SB-03/MW-03
Ground Surface Elevation: NA
State Plane Coordinates: NA
Total Depth Drilled: 26 feet
Well Set Depth: 25 feet
Depth to Groundwater: 16.4 feet
Date/Time of Measurement: 6/25/99 14:00

SUBSURFACE PROFILE					SAMPLE				
Depth (ft / m)	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PID (ppm)	Remarks/ Analytical Samples
0 / 0		Ground Surface							
		Asphalt							
1		Trap Rock and Fill Material	Fill		SS	NA	NA	0	
2									SB-03A (2-3')
3 / 1		Brown medium to fine SAND, little Silt, dry	SW		SS	17	10	0	No Odor
4					SS	12	62	0	
5									
6									No Odor
7 / 2					SS	24	22	0	
8		Brown gray grading to orange brown SILT, little to some Gravel, little Clay, slightly moist	ML						
9					SS	21	36	0	No Odor
10 / 3									
11					SS	18	24	0	
12									SB-03B (12-13')
13 / 4					SS	18	41	0	No Odor
14		Orange brown fine to medium SAND, some Gravel, little Clay, moist	SM						
15					SS	24	8	0	SB-03C (15-16')
16		Dark red SILT	ML						

Drilling Company: CT & E
Driller(s): L. Lynch. & J. Lewis
Rig Type: Mobile B-61
Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
Sampling Method: Splitspoon
Hammer/Fall: 14o lbs/ 30"
Sheet: 1 of 2

Scr. Length/Diam.: 12 feet
Slot Size: 0.01
Gravel Type: #1 Moraine
Flush/Stick Up: Flush

BEM SYSTEMS, INC.

Project No: 1250-22
Client: NJDOT
Location: Fernwood
Property Owner: NJDOT
Date Started: 6/25/99
Date Completed: 6/25/99
Logged By: C. Stebbins

Borehole Number: SB-03/MW-03
Ground Surface Elevation: NA
State Plane Coordinates: NA
Total Depth Drilled: 26 feet
Well Set Depth: 25 feet
Depth to Groundwater: 16.4 feet
Date/Time of Measurement: 6/25/99 14:00

SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PID (ppm)	Remarks/ Analytical Samples
5									
17					SS	12	13	0	
18			SW						No Odor
19		Orange brown SILT grading with fine to medium SAND, little Gravel, wet.			SS	14	7	0	
6									
20									No Odor
21					SS	18	35	0	SB-03D (21-22')
22									No Odor
7									
23		Dark red SILT, slightly moist.	ML		SS	16	19	0	
24		End of Borehole							
25									
26									
8									
27									
28									
29									
9									
30									
31									
32									

Drilling Company: CT & E
Driller(s): L. Lynch. & J. Lewis
Rig Type: Mobile B-61
Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
Sampling Method: Splitspoon
Hammer/Fall: 14o lbs/ 30"
Sheet: 2 of 2

Scr. Length/Diam.: 12 feet
Slot Size: 0.01
Gravel Type: #1 Moraine
Flush/Stick Up: Flush

BEM SYSTEMS, INC.

Project No: 1250-22
Client: NJDOT
Location: Fernwood
Property Owner: NJDOT
Date Started: 6/26/99
Date Completed: 6/26/99
Logged By: Ray Glover

Borehole Number: SB-04/MW-04
Ground Surface Elevation: NA
State Plane Coordinates: NA
Total Depth Drilled: 24 feet
Well Set Depth: 24 feet
Depth to Groundwater: 16 feet
Date/Time of Measurement: 6/26/99 12:30

SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PID (ppm)	Remarks/ Analytical Samples
0 ft / 0 m		Ground Surface							
		Asphalt			SS	NA	NA	0	
1		Red brown silty fine medium SAND, little to coarse Sand and fine medium Gravel, moist.	SM -SC						
2									SB-04A (2-3')
3					SS	21	20	0	No Odor
1 m									
4		Dark gray to yellow brown SILT and fine SAND, trace of Clay, moist.	ML						
5					SS	23	20	0	
6									No Odor
2 m									
7					SS	16	25	0	
8		Gray to yellow brown silty CLAY and fine SAND, trace of coarse Sand, moist	ML						
9					SS	16	34	0	No Odor
3 m									
10					SS	NA	NA	0	
11									
12									SB-04B (12-13')
13					SS	24	7	0	No Odor
4 m									
14			SP -SM		SS	NA	NA	0	
15									SB-04C (15-16')
16		Yellow brown fine medium silty SAND, trace to little coarse Sand and medium Gravel, moist to wet.							

Drilling Company: CT & E
Driller(s): L. Lynch. & J. Lewis
Rig Type: Mobile B-61
Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
Sampling Method: Splitspoon
Hammer/Fall: 14o lbs/ 30"
Sheet: 1 of 2

Scr. Length/Diam.: 10 feet
Slot Size: 0.01
Gravel Type: #1 Moraine
Flush/Stick Up: Flush

BEM SYSTEMS, INC.

Project No: 1250-22
Client: NJDOT
Location: Fernwood
Property Owner: NJDOT
Date Started: 6/26/99
Date Completed: 6/26/99
Logged By: Ray Glover

Borehole Number: SB-04/MW-04
Ground Surface Elevation: NA
State Plane Coordinates: NA
Total Depth Drilled: 24 feet
Well Set Depth: 24 feet
Depth to Groundwater: 16 feet
Date/Time of Measurement: 6/26/99 12:30

SUBSURFACE PROFILE					SAMPLE				
Depth	Symbol	Description	USCS	Well Data	Type	Recovery	N-Values	PID (ppm)	Remarks/ Analytical Samples
5 / 17					SS	18	8	0	
18			SP -SM		SS	NA	NA	0	No Odor
19 / 6 / 20									No Odor
21		Yellow brown fine medium silty SAND, trace to little coarse Sand and Gravel, wet			SS	24	14	0	
22									SB-04D (22-23')
23 / 7			SP -SM		SS	24	26	0	No Odor
24		End of Borehole							
25 / 26 / 8 / 27									
28 / 29 / 9 / 30									
31 / 32									

Drilling Company: CT & E
Driller(s): L. Lynch. & J. Lewis
Rig Type: Mobile B-61
Drilling Method: Hollow Stem auger

Auger/Hole Diameter (O.D./I.D.) inches: 6 5/8" ID / 12" OD
Sampling Method: Splitspoon
Hammer/Fall: 140 lbs/ 30"
Sheet: 2 of 2

Scr. Length/Diam.: 10 feet
Slot Size: 0.01
Gravel Type: #1 Moraine
Flush/Stick Up: Flush

DWR-138 M
8/00

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit No. 27 - 16414

Atlas Sheet Coordinates 27 : 25 : 117

OWNER IDENTIFICATION - Owner NJDOT
Address 951 PARKWAY AVE PO BOX 600
City TRENTON State NJ Zip Code 08625

WELL LOCATION - If not the same as owner please give address. Owner's Well No. MW 8
County MERCER Municipality EWING TWP Lot No. 11 Block No. 320
Address 951 PARKWAY AVE

DATE WELL STARTED 8/2/02
DATE WELL COMPLETED 8/12/02

TYPE OF WELL (as per Well Permit Categories) MONITORING
Regulatory Program Requiring Well _____ Case I.D.# _____

CONSULTING FIRM/FIELD SUPERVISOR (if applicable) PARSONS ENG. Tele. # (781) 401-32

WELL CONSTRUCTION

Total depth drilled 28 ft.
Well finished to 27 ft.

Borehole diameter:
Top 8 in.
Bottom 4 in.

Well was finished: ☐ above grade
☒ flush mounted

If finished above grade, casing height (stick up) above land surface _____ ft.

Was steel protective casing installed?
☐ Yes ☒ No

Static water level after drilling 19 ft.

Water level was measured using M Gauge

Well was developed for 3 hours
at 1 gpm

Method of development Pump

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Ratin (lbs/sch nc
Single/Inner Casing	+2	17	4	PVC	Sch 40
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)					
Open Hole or Screen (No. Used 101)	17	27	4	PVC	Sch 40
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack	15	28	10	Morie	#1
Grout	0	15	10	Neat Cement Bentonite	100 lb 30 lb

Grouting Method PRESSURE
Drilling Method AUGER

Was permanent pumping equipment installed? ☐ Yes ☒ No

Pump capacity _____ gpm

Pump type: _____

Drilling Fluid NONE Type of Rig CME 75

Health and Safety Plan submitted? ☐ Yes ☒ No

Level of Protection used on site (circle one) None (D) C B A

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADT DIAMOND DRILLING INC

Well Driller (Print) M. Brinkerhoff

Driller's Signature _____

Registration No. T1496 Date 8/21/02

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations.

0'-.5' ASPHALT
.5'-10' CLEAN DENSE FILL
10'-12' GRAY-TAN SILTY SAND
12'-19' DARK BROWN MED SAND AND GRAVEL
19'-28' DARK BROWN MED SAND WITH LITTLE GRAVEL

AS-BUILT WELL LOCATION
(NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: _____ EASTING: _____

OR

LATITUDE: ° ' " LONGITUDE: ° ' "

BORING CONSTRUCTION LOG

PARSONS | **CLIENT:** NJDOT | **BORING NO.:** MW-9

PROJECT : Fernwood UST
SWMU # (AREA) : Trenton, NJ
SOP NO.:

START DATE: 8-5-02
FINISH DATE: 8-5-02
CONTRACTOR: ADT
DRILLER: Dennis / Remi
INSPECTOR: Ayesha
CHECKED BY: J. Goldrick
CHECK DATE:
BORING CONVERTED TO MW? (Y) N

DRILLING SUMMARY

DRILLING METHOD	HOLE DIA.(ft)	DEPTH INTERVAL (ft)	SAMPLER SIZE	SAMPLER TYPE	HAMMER TYPE	HAMMER WT/FALL
HSA	.5	0-25	2"	SS SI	WL	140 / 30

DRILLING ACRONYMS

HSA	HOLLOW-STEM AUGERS	HMR	HAMMER	SS	SPLIT SPOON
DW	DRIVE-AND-WASH	SHR	SAFETY HAMMER	CS	CONTINUOUS SAMPLING
MRSLC	MUD-ROTARY SOIL-CORING	HHR	HYDRAULIC HAMMER	5I	5 FT INTERVAL SAMPLING
CA	CASING ADVANCER	DHR	DOWN-HOLE HAMMER	NS	NO SAMPLING
SPC	SPIN CASING	WL	WIRE-LINE	ST	SHELBY TUBE
				3S	3 INCH SPLIT SPOON

MONITORING EQUPMENT SUMMARY

INSTRUMENT TYPE	DETECTOR TYPE/ENERGY	RANGE	BACKGROUND READING	BACKGROUND TIME	BACKGROUND DATE	CALIBRATION TIME	CALIBRATION DATE	WEATHER (TEMP., WIND, ETC.)

MONITORING ACRONYMS

PID	PHOTO - IONIZATION DETECTOR	BGD	BACKGROUND	DGRT	DRAEGER TUBES
FID	FLAME - IONIZATION DETECTOR	CPM	COUNTS PER MINUTE	PPB	PARTS PER BILLION
GMD	GEIGER MUELLER DETECTOR	PPM	PARTS PER MILLION	MDL	METHOD DETECTION LIMIT
SCT	SCINTILLATION DETECTOR	RAD	RADIATION METER		

INVESTIGATION DERIVED WASTE

DATE			
SOIL AMOUNT : (fraction of drum)			
DRUM #, LOCATION:			

COMMENTS:

SAMPLES TAKEN:

SAMPLES
DUPLICATES
MS/MSD
MRD

BORING CONSTRUCTION LOG

PARSONS	CLIENT: NJDOT	BORING NO.: MW-9
COMMENTS:		DRILLER: ADT
		INSPECTOR: Ayesha
		DATE: 8-5-02

DEPTH (Ft)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
5										
10										
12	2 4 6 10	2	1.25	10 to 12	1	0		Dark Red-Brown to grayish-green, Stiff, CLAY and SILT, trace f. gravel.	CL	
15										
17	6 7 7 8	2	2	15 to 17	2	0		Dark Brown, Medium Dense, fine SAND and SILT, trace f. gravel	SM	
20										

FIG A-2 (cont.)

BORING CONSTRUCTION LOG

PARSONS	CLIENT: NJDOT	BORING NO.: MW-9
COMMENTS:		DRILLER: ADT INSPECTOR: Ayesha DATE: 8-5-02

DEPTH (FT)	SAMPLING: BLOWS PER 6 INCHES	SAMPLING: PENETRATION RANGE (FEET)	SAMPLING: RECOVERY RANGE (FEET)	SAMPLE: DEPTH INT (FEET)	SAMPLE: NO.	SAMPLE: VOC	SAMPLE: RAD SCRN	SAMPLE DESCRIPTION (As per Burmeister: color, grain size, MAJOR COMPONENT, Minor Components with amount modifiers and grain-size, density, stratification, wetness, etc.)	USCS CLASS	STRATUM CLASS
21	3 5 5 3	2		20 to 22	3	0		Moist, Dk. reddish-brown, SILT and CLAY, Stiff, trace f. Sand.	ML	
22										

FIGURE A-2 (cont.)

The Louis Berger Group, Inc. 412 Mt. Kemble Ave. Morristown, NJ 07960	**Drilling Log** Page 1 of 2	**BORING NO.:** MW10 **WELL NO.:** MW10

CLIENT: New Jersey Department of Transportation		**PROJECT NO:** JG500L4
PROJECT: Fernwood Maintenance Complex		**DATE STARTED:** 10/23/2007
DRILLING CONTRACTOR: Summit Drilling Co., Inc.		**DATE FINISHED:** 10/23/2007
DRILLING METHOD: Hollow Stem Auger		**DRILLER:** J. Murtha
BOREHOLE DATA	**WELL DATA**	**INSPECTOR:** N. Save
Diameter (in): 7	**Completion:** 2-inch PVC/Flushmount	**NORTHING:** N/A
Total Depth (ft): 25.00	**Total Depth (ft):** 24.5	**EASTING:** N/A
Sampler: Grab Cuttings	**Screen Length (ft)/Slot (in):** 10 / 0.020	**GROUND ELEVATION:** N/A
Depth to Water (ft): 18	**Depth to Water (ft):** 17.3	**TOC ELEVATION:** N/A
Depth to Rock (ft): N/A	**Permit No.:** N/A	

NOTES: All descriptions based on cuttings

Well Construction	Depth	Lithology	USCS	Sample Interval	Sample Recovery	Blows/6 in	PID (ppm)	Description	Remarks
	0		SP				0	Brownish black (5YR 2/1) medium to fine SAND, little medium to fine Gravel; Dry.	**Sand**
	2								
	4								
			SM				5	Dusky brown (5YR 2/2) medium to fine SAND, some Silt, little medium to fine Gravel; Dry.	**Silty Sand**
	6								
	8								
	10		SM				4.3	Dusky brown (5YR 2/2) medium to fine SAND, and Silt; Dry.	

The Louis Berger Group, Inc. 412 Mt. Kemble Ave. Morristown, NJ 07960	**PROJECT NO.:** JG500L4	**BORING NO.:** MW10
	Page 2 of 2	**WELL NO.:** MW10

Well	Depth	Lith.	USCS	Interval	Rec.	Blows	PID	Description	Remarks
	12								
	14		SM				5.9	Moderate brown (5YR 4/4) coare to fine SAND, and Clayey Silt, trace coarse to fine Gravel; Moist.	
	16								
	18								**Water Level at 18 ft.**
	20		SM				4.7	Moderate brown (5YR 4/4) medium to fine SAND, and Clayey Silt, trace coarse to fine Gravel; Moist.	
	22								
	24								**End of Boring at 25 ft.**