

Contaminated Material Management Work Plan

Trails and Pathways Georgetown-to-Lewes
Fisher Road to Airport Road Project
DNREC Site ID No. (DE-1823)

DRAFT

Prepared For

Delaware Department of Transportation
800 Bay Road
Dover, Delaware 19903

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Contaminated Material Management Work Plan

Trails and Pathways Georgetown-to-Lewes: Fisher Road to Airport Road Project
Georgetown, DE
DNREC Site ID No. (DE-1823)
DelDOT Project No. 1957F-50
The Consultant Project No. 103S297450

REPRESENTATIONS

This report was compiled based partially on information supplied to the Consultant from outside sources and other information, which is in the public domain. The conclusions and recommendations herein are based solely on the information the Consultant obtained in compiling the report. Documentation for the statements made in the report is on file at the Consultant's Newark, Delaware office. The Consultant makes no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Because the facts forming the basis for the report are subject to professional interpretation, differing conclusions could be reached. The Consultant does not assume responsibility for the discovery and elimination of hazards, which could possibly cause accidents, injuries or damage. Compliance with submitted recommendations or suggestions does not assure elimination of hazards or the fulfillment of clients' obligations under local, state or federal laws or any modifications or changes to such laws. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature but shall be a representation of findings of fact from records examined.

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Health & Safety Plan

1.0 INTRODUCTION

1.1 Project Description and Location

This Contaminated Material Management Work Plan (CMMWP) was prepared by The Consultant to establish procedures to be used to address contaminated soil that might be encountered within the project limits of Delaware Department of Transportation's (DelDOT's) Georgetown to Lewes Rail-to-Trail, Fisher Road to Airport Road (Site) project in Sussex County, Delaware. DelDOT has entered into a Voluntary Cleanup Agreement with the Delaware Department of Natural Resources and Environmental Control's (DNREC) Site Investigation and Restoration Section (SIRS). The subject site is comprised of a 32,500 ft section of a former railroad located between Fisher Road and Airport Road in Georgetown, Delaware (**Figures 1 & 2**). The first portion will be converted from railroad to trail at approximately 8,150 ft in length from Fisher Road to Harbeson Road. The second portion of the trail from Harbeson Road to Airport Road will be constructed parallel with the railroad with two crossings over the tracks.

The Georgetown-to-Lewis Trail is a 16.8-mile corridor from the Historic Georgetown Train Station to Cape Henlopen State Park. The trail is to be constructed on property owned by the State of Delaware and operated by the Delaware Coast Line Railroad, which is used primarily for moving freight to local businesses. The rail lines operated by the Delaware Coast Line Railroad were once part of the Queen Anne's Railroad, which began providing rail service between Queenstown, Maryland and Lewes, Delaware in 1984. Through a complex chain of acquisitions in 1905, the track previously owned by the Queen Anne's Railroad became part of the Maryland, Delaware, and Virginia Railway Company (MD&V), a subsidiary of the Pennsylvania Railroad. In 1923 MD&V was consolidated with another subsidiary to form the Baltimore and Eastern (B&E) Railroad. Passenger Service on the B&E was discontinued in October 1931. The Delaware Coast Line Railroad was incorporated in Delaware on June 23, 1982 and began operating the Georgetown-to-Lewes segment of the former Queen Anne's Railroad under contract with the State of Delaware (State of Delaware, 2007).

The trail was identified in the 2006 Statewide Rails to Trails / Rails with Trails Master Plan and was recommended to be included in the DelDOT Capital Improvement Program. The trail will be a shared use path within the right-of-way of the former freight line and include user amenities, such as trailheads, parking and mile markers, and connections with other trails along the corridor. The existing rail corridor is close to several communities and recreational attractions, including Route 9, Cape Henlopen State Park, Gills Neck Road trail, Junction and Breakwater trail, Delaware Heritage Trail, residential developments and neighborhoods, commercial developments in the City of Lewes, scenic and historical byways, and the Cape May-Lewes Ferry (DelDOT, 2012).

1.2 Previous Environmental Investigations

At the request of the Delaware Department of Natural Resources and Environmental Control's Remediation Section (DNREC-RS), The Consultant completed a Facility Evaluation (FE) of the proposed Trails and Pathways Georgetown-to-Lewes Fisher Road to Airport Road I project in June 2024. The FE included the collection of surface and subsurface soil samples, and groundwater samples for laboratory analysis from twenty-two boring locations within the proposed project limits (**Figure 3**). Based on the data collected during the FE, it was determined that shallow soils within the project limits contained elevated concentrations of thallium and polynuclear aromatic hydrocarbons (PAHs) (**Tables 1 through**

4). The contamination was associated with locations where black coal ash railroad ballast was present (Figure 4).

The Consultant has prepared this CMMWP to address the handling and disposal of any contaminated soil that might be encountered during earth disturbing activities required to complete the project. The CMMWP will become effective upon approval by DNREC and DeIDOT's Project Manager and will remain in effect throughout the duration of the project.

2.0 PERSONNEL

The overall Trails and Pathways Georgetown-to-Lewes Cool Spring Road to Fisher Road project will be managed by DeIDOT. DeIDOT has selected ??????? as the prime contractor for this project.

The prime contractor shall be responsible for providing the appropriate equipment and personnel necessary to excavate, stage, and load contaminated soil for off-site disposal, as identified during construction activities. The work will be performed in accordance with the procedures described in this CMMWP.

The Consultant will manage the transportation and off-site disposal of the contaminated soil, sediment, and other miscellaneous waste; provide health and safety oversight of all excavation activities where contaminated soil is encountered; and assist DeIDOT's Prime Contractor with any other environmental issues encountered during the site work, as directed by DeIDOT's project manager. Tasks to be performed by the Consultant include the following:

- Monitor ambient air quality in any work excavations.
- Screen excavated soil for off-site disposal.
- Collect waste characterization samples.
- Subcontract a licensed waste hauler and disposal/treatment facility for transportation and off-site disposal of the contaminated soil.
- Prepare soil disposal paperwork/manifest.
- Prepare a letter-report at the end of the project to be submitted to DeIDOT and the Delaware Department of Natural Resources and Environmental Control's (DNREC) Remediation Section (RS).

Subcontractors to be used by the Consultant during the project will include:

- Clean Earth, Inc. (Wilmington, Delaware)
- Mid-Atlantic Environmental Laboratories Inc. (Wilmington, Delaware)

Clean Earth will be responsible for transportation, using licensed solid waste haulers, and off-site disposal/treatment of the contaminated soil at their licensed/treatment disposal facility(s).

Mid-Atlantic Environmental Laboratories will provide laboratory analytical services for the soil waste characterization samples that are collected during the project.

3.0 COORDINATION OF WASTE MANAGEMENT ACTIVITIES

The key management personnel for the project and their contact information are as follows:

**THIS INFORMATION WILL BE PROVIDED TO THE
AWARDED CONTRACTOR.**

4.0 CONTAMINATED SOIL MANAGEMENT PROCEDURES

4.1 Identification of Contaminated Soil

Soils unearthed in areas where black coal ash is encountered during any grading or excavating work will be considered contaminated. The black ash will be segregated from other “native” soils that are encountered for off-site disposal. “Native soils” that are excavated will be used on-site to the extent possible. Any native soils that are to be shipped off-site will be tested to determine if they meet the criteria of “clean” fill. If these “native” soils contain organic compounds or metals at concentrations above natural background levels for soils in Delaware, they will be disposed of with the black ash material.

The prime contractor’s personnel will excavate the soil according to the project specifications and place the soil in a staging area designated by the DelDOT Project Supervisor. The prime contractor will be responsible for constructing a plastic-lined staging area, covering the staged soil at the end of each workday, and maintaining the plastic cover pending approval for off-site disposal of the soil at a licensed treatment/disposal facility. Soils meeting the screening criteria of “clean” will be handled and transported by the prime contractor or a designated subcontractor according to the project specifications.

The Consultant's personnel will be on site during all excavation work to visually screen the soil and collect the necessary waste characterization samples for off-site disposal.

4.2 Waste Characterization Sampling

If any potentially contaminated soil is excavated and can't be re-used under capped areas of the site during the project, the Consultant's personnel will collect representative composite soil samples from the contaminated soil to provide the necessary waste characterization data to the disposal/treatment facility for approval to receive the soil at its facility. The composite soil samples will be submitted to Mid- Atlantic Environmental Laboratories for the following Clean Earth MGP analyses:

Analyses	Method
Benzene, toluene, ethylbenzene and xylenes (BTEX)	SW-846 Method 8260B
Polychlorinated biphenyls (PCBs)	SW-846 Method 680
Polycyclic aromatic hydrocarbons (PAHs)	SW-846 Method 8270C
Total organic halogen (TOX)	SW-846 Method 9023
Phenols	SW-846 Method 9066
Total petroleum hydrocarbons (TPH)	EPA 418.1 Modified
Sulfur	ICP-Leach
Moisture	EPA 160.3 Modified
pH	SW-846 Method 9045C
Ignitability	40 CFR 261.21
Reactivity – Sulfide	SW-846 Method 9034
Reactivity – Cyanide	SW-846 Method 9012A
Toxicity Characteristic Leaching Procedure (TCLP) Metals	SW-846 Method 3510/7470A/6010B
TCLP pesticides/herbicides	SW-846 Method 3510/8081A/8151A
TCLP semi-volatile organic compounds (SVOCs)	SW-846 Method 3510/8270C
TCLP volatile organic compounds (VOCs)	SW-846 Method 1311/8260B

The analytical data collected will be submitted to Clean Earth, Inc. along with other required paperwork for approval to dispose of soil excavated from the site. The number of soil samples to be collected by the Consultant will be based on the volume of soil shipped to meet the requirements of the disposal/treatment facility(s). At a minimum, a composite soil sample will be collected from every 1,000 tons shipped off-site, based on Clean Earth's sampling protocol.

4.3 Off-Site Soil Transportation and Disposal

Disposal of the contaminated soil will be performed in compliance with all relevant federal, state, and local regulations. Contaminated soil excavated during the project will be disposed at either Clean Earth of New Castle's, Wilmington, Delaware's thermal treatment facility (petroleum contaminated soil) or Clean Earth of New Jersey Inc.'s South Kearney, New Jersey disposal facility (soil meeting the criteria of hazardous waste).

The disposal facilities' addresses, and telephone numbers are as follows:

Clean Earth of New Castle, Inc.
 94 Pyles Lane
 New Castle, DE 19720
 Phone: (302) 427-6633

Clean Earth of New Jersey Inc.
 115 Jacobus Avenue
 South Kearney, NJ 07032
 Phone: (973) 344-4004

The Consultant will subcontract Clean Earth to provide the Delaware- and/or New Jersey-licensed solid waste hauling trucks to transport the contaminated soil to Clean Earth's facility. The prime contractor will be responsible for loading the trucks on the day(s) the soil is to be shipped off-site. The disposal facility's scales will be the governing factor for determining the amount of contaminated material that is disposed.

The Consultant will be responsible for completing all paperwork required by the facility for approval of disposal at the selected disposal/treatment facility. A Consultant representative will be on site to sign the waste manifest during the day(s) the contaminated soil is shipped off-site.

4.4 Backfill Operation and Backfill Material

The prime contractor will be responsible for all backfilling, according to the project specifications, of areas where soil has been removed. Since the project is an active DNREC HSCA site, soil from off-site sources used during the project must meet the criteria of "clean" fill per the requirements of DNREC's Soil Re-Use Policy at HSCA Sites guidance document. The prime contractor will be responsible to provide DelDOT with the material sources for the project.

The Consultant will be responsible for reviewing the material sources and collecting the necessary samples from the source(s) per DNREC's Soil Re-Use Policy at HSCA Sites guidance document. The soil samples will be submitted to a DNREC-certified laboratory for analysis.

The Consultant personnel will compile and evaluate the analytical data from the laboratory and determine if the soil from each source area meets the criteria of "clean" fill per DNREC's Soil Re-Use Policy at HSCA Sites guidance document. If the soil does meet the criteria, the consultant will prepare a formal request for each source area to DNREC's Remediation Section for approval.

5.0 DUST CONTROL PLAN

Real-time air monitoring will be conducted during any excavation or grading activities that occur within areas where black coal ash is present to monitor worker safety and downwind of the site to monitor community exposure. Particulate monitoring will be performed for arsenic and PAHs within the work zone and around the perimeter of the work areas. A maximum of four monitoring stations will be set up during any grading and excavating work at the site. The monitoring station locations will be based on wind direction as determined by the consultant on-site environmental scientist. The general configuration of the monitoring stations will include one station upwind of the work area; one station downwind of the work area; and two stations downwind/sidewind closest to the nearest residential/commercial properties to the work area. All monitoring stations will be within the DelDOT limits of construction for the project.

The equipment selected to conduct the particulate monitoring is the DataRAM 4 or equivalent, which is capable of monitoring for particulate concentrations as low as 0.001 parts per million (ppm). The DataRAM 4 units are factory calibrated and, therefore, do not require calibration. However, at the start of each day the DataRAM 4 will be zeroed. Calibration results will be recorded in the field logbook.

The consultant personnel will review the monitoring data collected from the DataRAM 4 daily. Data irregularities and problems will be identified and investigated. All data will be reviewed for accuracy at the end of each working day. Particulate concentrations will be recorded digitally or summarized in the field logbook pending computer malfunction or software incompatibilities.

The particulate action level for long-term metals exposure as established by the Occupational Safety and Health Administration (OSHA) is 0.50 mg/m³ over a time-weighted average of 8 hours. The particulate action level for long-term carbon black coal ash with PAHs exposure as established by the OSHA is 0.10 mg/m³ over a time-weighted average of 8 hours. For the monitoring program, the action level for PAHs will be used because it is more stringent and protective of human health.

If particulate action level is exceeded, the prime building contractor will be instructed to wet the soil in the work area with clean water to minimize/eliminate generation of dust within the work zone.

6.0 HEALTH AND SAFETY

All work performed at locations where potential contaminated soil exists will be performed in accordance with the requirements of the Occupational Safety and Health Administration (OSHA) Standard 29 Code of Federal Regulations (CFR) 1910.120. Any personnel working at locations where contaminated soil exists will comply with the following requirements:

- Have completed 24 hours of introductory hazardous waste site training or equivalent work experience as defined by OSHA.
- Have completed 8-Hour Refresher training if the identified persons had introductory training more than 12 months prior to this site work.
- Have completed 8-hour Supervisory training if their assigned function will involve the supervision of subordinate personnel.

The consultant has prepared a Health and Safety Plan documenting the procedures to be used while performing work described in this CMMWP. A copy of the Health and Safety Plan is included as an attachment to this report. The purpose of the Health and Safety Plan is to provide general safe work practices, emergency action procedures, air monitoring requirements, and site control measures to be used during all work activities performed at locations with potential contamination issues to ensure that project workers are provided a safe work environment.

The prime contractor and remediation contractors working on the project can also prepare their own location-specific Health and Safety Plans that meet their company standards as long as the plan is prepared by a trained Health and Safety professional. A copy of this plan should be submitted to the DeIDOT project manager prior to the start of work activities at the location where the contamination issue(s) exist.

7.0 REPORT PREPARATION

A summary report documenting all remediation work performed under this CMMWP will be prepared by the consultant and submitted to DeIDOT's Project Manager, DeIDOT's HAZMAT Coordinator, and DNREC-RS at the completion of the remediation work. The report will include copies of the bills of lading; waste manifest; laboratory analytical reports for the samples collected; photographs; daily air monitoring reports; and certificates of destruction/recycling from the treatment/disposal facilities.

8.0 FUTURE OPERATIONS AND MAINTENANCE

Per the requirements of the Final Plan of Remedial Action approved for the site by DNREC, an Environmental Covenant will be placed on the site to restrict future land use to recreational use and to prohibit the disturbance of the cap by the performance of land-disturbing activities without the written

approval of DNREC-RS. Following completion of the construction activities, an Operations and Maintenance Plan will be prepared and submitted to DNREC to ensure the long-term integrity of the cap is maintained per the Final Plan of Remedial Action.

9.0 REFERENCES

Delaware Department of Transportation. Evaluation of Trailhead Options in the City of Lewes to Support the Lewes to Georgetown Rail with Trail Network. November 2012.

State of Delaware Public Archives. Queen Anne's Railroad. October 31, 2007.

The consultant Facility Evaluation Report, Georgetown to Lewes Rail-to-Trail, Fisher Road to Airport Road Project. June 2024.

FIGURES

Table 1
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Volatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	GL-GP1-SS-1023	Q	GL-GP1-DS-1023	Q	GL-GP2-SS-1023	Q	GL-GP2-DS-1023	Q
			Sample Date	10/23/2023		10/23/2023		10/23/2023		10/23/2023	
			Sample Type	Field Sample		Field Sample		Field Sample		Field Sample	
1,1,1-Trichloroethane	71-55-6	810	ND		ND		ND		ND		
1,1,2,2-Tetrachloroethane	79-34-5	600	ND		ND		ND		ND		
1,1,2-Trichloroethane	79-00-5	0.15	ND		ND		ND		ND		
1,1-Dichloroethane	75-34-3	3.6	ND		ND		ND		ND		
1,1-Dichloroethene	75-35-4	23	ND		ND		ND		ND		
1,2,4-Trichlorobenzene	120-82-1	5.8	ND		ND		ND		ND		
1,2-Dibromo-3-Chloropropane	96-12-8	0.0053	ND		ND		ND		ND		
1,2-Dibromoethane	106-93-4	0.036	ND		ND		ND		ND		
1,2-Dichlorobenzene	95-50-1	180	ND		ND		ND		ND		
1,2-Dichloroethane	107-06-2	0.46	ND		ND		ND		ND		
1,2-Dichloropropane	78-87-5	0.28	ND		ND		ND		ND		
1,3-Dichlorobenzene	541-73-1	-	ND		ND		ND		ND		
1,4-Dichlorobenzene	106-46-7	2.6	ND		ND		ND		ND		
2-Butanone	78-93-3	2,700	ND		ND		ND		ND		
2-Hexanone	591-78-6	20	ND		ND		ND		ND		
4-Methyl-2-pentanone	108-10-1	3.3	ND		ND		ND		ND		
Acetone	67-64-1	6100	ND		ND		ND		ND		
Benzene	71-43-2	1.2	ND		ND		ND		ND		
Bromodichloromethane	75-27-4	0.29	ND		ND		ND		ND		
Bromoform	75-25-2	19	ND		ND		ND		ND		
Bromomethane	74-83-9	0.68	ND		ND		ND		ND		
Carbon disulfide	75-15-0	77	ND		ND		ND		ND		
Carbon tetrachloride	56-23-5	0.65	ND		ND		ND		ND		
Chlorobenzene	108-90-7	28	ND		ND		ND		ND		
Chloroethane	75-00-3	1.4	ND		ND		ND		ND		
Chloroform	67-66-3	0.32	ND		ND		ND		ND		
Chloromethane	74-87-3	11	ND		ND		ND		ND		
cis-1,2-Dichloroethene	156-59-2	16	ND		ND		ND		ND		
cis-1,3-Dichloropropene	10061-01-5	-	ND		ND		ND		ND		
Cyclohexane	110-82-7	650	ND		ND		ND		ND		
Dibromochloromethane	124-48-1	8.3	ND		ND		ND		ND		
Dichlorodifluoromethane	75-71-8	8.7	ND		ND		ND		ND		
Ethylbenzene	100-41-4	5.8	ND		ND		ND		ND		
Freon 113	76-13-1	670	ND		ND		ND		ND		
Isopropylbenzene	98-82-8	190	ND		ND		ND		ND		
Methyl acetate	79-20-9	7,800	ND		ND		ND		ND		
Methyl tertiary butyl ether	1634-04-4	47.000	ND		ND		ND		ND		
Methylcyclohexane	108-87-2	-	ND		ND		ND		ND		
Methylene Chloride	75-09-2	35	ND		ND		ND		ND		
Styrene	100-42-5	600	ND		ND		ND		ND		
Tetrachloroethene	127-18-4	8.1	ND		ND		ND		ND		
Toluene	108-88-3	490	ND		ND		ND		ND		
trans-1,2-Dichloroethene	156-60-5	160	ND		ND		ND		ND		
trans-1,3-Dichloropropene	10061-02-6	-	ND		ND		ND		ND		
Trichloroethene	79-01-6	0.41	ND		ND		ND		ND		
Trichlorofluoromethane	75-69-4	2,300	ND		ND		ND		ND		
Vinyl chloride	75-01-4	0.059	ND		ND		ND		ND		
Xylene (total)	1330-20-7	58	ND		ND		ND		ND		

Notes:

Method - SW846 8260D

Results and Screening Levels (SL) in mg/kg (milligrams per kilogram)

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Table 1
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Volatile Organic Compounds - Soil

	Sample ID	GL-GP3-SS-1023	Q	GL-GP4-SS-1023	Q	GL-GP4-DS-1023	Q	GL-GP5-SS-1023	Q
	Sample Date	10/23/2023		10/23/2023		10/23/2023		10/23/2023	
	Sample Type	Field Sample		Field Sample		Field Sample		Field Sample	
Analysis Name	Cas Number	DNREC SL							
1,1,1-Trichloroethane	71-55-6	810	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	600	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	79-00-5	0.15	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	75-34-3	3.6	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	75-35-4	23	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	120-82-1	5.8	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-Chloropropane	96-12-8	0.0053	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	106-93-4	0.036	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	95-50-1	180	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	107-06-2	0.46	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	78-87-5	0.28	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	541-73-1	-	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	106-46-7	2.6	ND	ND	ND	ND	ND	ND	ND
2-Butanone	78-93-3	2,700	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	591-78-6	20	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	108-10-1	3.3	ND	ND	ND	ND	ND	ND	ND
Acetone	67-64-1	6100	ND	ND	ND	ND	ND	ND	ND
Benzene	71-43-2	1.2	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	75-27-4	0.29	ND	ND	ND	ND	ND	ND	ND
Bromoform	75-25-2	19	ND	ND	ND	ND	ND	ND	ND
Bromomethane	74-83-9	0.68	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	75-15-0	77	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	56-23-5	0.65	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	108-90-7	28	ND	ND	ND	ND	ND	ND	ND
Chloroethane	75-00-3	1.4	ND	ND	ND	ND	ND	ND	ND
Chloroform	67-66-3	0.32	ND	ND	ND	ND	ND	ND	ND
Chloromethane	74-87-3	11	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	156-59-2	16	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	10061-01-5	-	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	110-82-7	650	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	124-48-1	8.3	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	75-71-8	8.7	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	100-41-4	5.8	ND	ND	ND	ND	ND	ND	ND
Freon 113	76-13-1	670	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	98-82-8	190	ND	ND	ND	ND	ND	ND	ND
Methyl acetate	79-20-9	7,800	ND	ND	ND	ND	ND	ND	ND
Methyl tertiary butyl ether	1634-04-4	47.000	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	108-87-2	-	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	75-09-2	35	ND	ND	ND	ND	ND	ND	ND
Styrene	100-42-5	600	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	127-18-4	8.1	ND	ND	ND	ND	ND	ND	ND
Toluene	108-88-3	490	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	156-60-5	160	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	10061-02-6	-	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	79-01-6	0.41	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	75-69-4	2,300	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	75-01-4	0.059	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	1330-20-7	58	ND	ND	ND	ND	ND	ND	ND

Notes:

Method - SW846 8260D

Results and Screening Levels (SL) in mg/kg (milligrams per kilogram)

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control
Screening Level

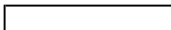


Table 1
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Volatile Organic Compounds - Soil

		Sample ID	GL-DUP-1023	Q	GL-GP6-SS-1023	Q	GL-GP7-SS-1023	Q	GL-GP7-DS-1023	Q
		Sample Date	10/23/2023		10/23/2023		10/24/2023		10/24/2023	
		Sample Type	Field Duplicate of GL-GP5-SS-1023		Field Sample		Field Sample		Field Sample	
Analysis Name	Cas Number	DNREC SL								
1,1,1-Trichloroethane	71-55-6	810	ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	79-34-5	600	ND		ND		ND		ND	
1,1,2-Trichloroethane	79-00-5	0.15	ND		ND		ND		ND	
1,1-Dichloroethane	75-34-3	3.6	ND		ND		ND		ND	
1,1-Dichloroethene	75-35-4	23	ND		ND		ND		ND	
1,2,4-Trichlorobenzene	120-82-1	5.8	ND		ND		ND		ND	
1,2-Dibromo-3-Chloropropane	96-12-8	0.0053	ND		ND		ND		ND	
1,2-Dibromoethane	106-93-4	0.036	ND		ND		ND		ND	
1,2-Dichlorobenzene	95-50-1	180	ND		ND		ND		ND	
1,2-Dichloroethane	107-06-2	0.46	ND		ND		ND		ND	
1,2-Dichloropropane	78-87-5	0.28	ND		ND		ND		ND	
1,3-Dichlorobenzene	541-73-1	-	ND		ND		ND		ND	
1,4-Dichlorobenzene	106-46-7	2.6	ND		ND		ND		ND	
2-Butanone	78-93-3	2,700	ND		ND		ND		ND	
2-Hexanone	591-78-6	20	ND		ND		ND		ND	
4-Methyl-2-pentanone	108-10-1	3.3	ND		ND		ND		ND	
Acetone	67-64-1	6100	ND		ND		ND		ND	
Benzene	71-43-2	1.2	ND		ND		ND		ND	
Bromodichloromethane	75-27-4	0.29	ND		ND		ND		ND	
Bromoform	75-25-2	19	ND		ND		ND		ND	
Bromomethane	74-83-9	0.68	ND		ND		ND		ND	
Carbon disulfide	75-15-0	77	ND		ND		ND		ND	
Carbon tetrachloride	56-23-5	0.65	ND		ND		ND		ND	
Chlorobenzene	108-90-7	28	ND		ND		ND		ND	
Chloroethane	75-00-3	1.4	ND		ND		ND		ND	
Chloroform	67-66-3	0.32	ND		ND		ND		ND	
Chloromethane	74-87-3	11	ND		ND		ND		ND	
cis-1,2-Dichloroethene	156-59-2	16	ND		ND		ND		ND	
cis-1,3-Dichloropropene	10061-01-5	-	ND		ND		ND		ND	
Cyclohexane	110-82-7	650	ND		ND		ND		ND	
Dibromochloromethane	124-48-1	8.3	ND		ND		ND		ND	
Dichlorodifluoromethane	75-71-8	8.7	ND		ND		ND		ND	
Ethylbenzene	100-41-4	5.8	ND		ND		ND		ND	
Freon 113	76-13-1	670	ND		ND		ND		ND	
Isopropylbenzene	98-82-8	190	ND		ND		ND		ND	
Methyl acetate	79-20-9	7,800	ND		ND		ND		ND	
Methyl tertiary butyl ether	1634-04-4	47.000	ND		ND		ND		ND	
Methylcyclohexane	108-87-2	-	ND		ND		ND		ND	
Methylene Chloride	75-09-2	35	ND		ND		ND		ND	
Styrene	100-42-5	600	ND		ND		ND		ND	
Tetrachloroethene	127-18-4	8.1	ND		ND		ND		ND	
Toluene	108-88-3	490	ND		ND		ND		ND	
trans-1,2-Dichloroethene	156-60-5	160	ND		ND		ND		ND	
trans-1,3-Dichloropropene	10061-02-6	-	ND		ND		ND		ND	
Trichloroethene	79-01-6	0.41	ND		ND		ND		ND	
Trichlorofluoromethane	75-69-4	2,300	ND		ND		ND		ND	
Vinyl chloride	75-01-4	0.059	ND		ND		ND		ND	
Xylene (total)	1330-20-7	58	ND		ND		ND		ND	

Notes:

Method - SW846 8260D

Results and Screening Levels (SL) in mg/kg (milligrams per kilogram)

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

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Table 1
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Volatile Organic Compounds - Soil

			Sample ID	GL-GP8-SS-1023	Q	GL-GP9-SS-1023	Q	GL-GP10-SS-1023	Q	GL-GP10-DS-1023	Q
			Sample Date	10/24/2023		10/24/2023		10/24/2023		10/24/2023	
			Sample Type	Field Sample		Field Sample		Field Sample		Field Sample	
Analysis Name	Cas Number	DNREC SL									
1,1,1-Trichloroethane	71-55-6	810		ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	79-34-5	600		ND		ND		ND		ND	
1,1,2-Trichloroethane	79-00-5	0.15		ND		ND		ND		ND	
1,1-Dichloroethane	75-34-3	3.6		ND		ND		ND		ND	
1,1-Dichloroethene	75-35-4	23		ND		ND		ND		ND	
1,2,4-Trichlorobenzene	120-82-1	5.8		ND		ND		ND		ND	
1,2-Dibromo-3-Chloropropane	96-12-8	0.0053		ND		ND		ND		ND	
1,2-Dibromoethane	106-93-4	0.036		ND		ND		ND		ND	
1,2-Dichlorobenzene	95-50-1	180		ND		ND		ND		ND	
1,2-Dichloroethane	107-06-2	0.46		ND		ND		ND		ND	
1,2-Dichloropropane	78-87-5	0.28		ND		ND		ND		ND	
1,3-Dichlorobenzene	541-73-1	-		ND		ND		ND		ND	
1,4-Dichlorobenzene	106-46-7	2.6		ND		ND		ND		ND	
2-Butanone	78-93-3	2,700		ND		ND		ND		ND	
2-Hexanone	591-78-6	20		ND		ND		ND		ND	
4-Methyl-2-pentanone	108-10-1	3.3		ND		ND		ND		ND	
Acetone	67-64-1	6100		ND		ND		ND		ND	
Benzene	71-43-2	1.2		ND		ND		ND		ND	
Bromodichloromethane	75-27-4	0.29		ND		ND		ND		ND	
Bromoform	75-25-2	19		ND		ND		ND		ND	
Bromomethane	74-83-9	0.68		ND		ND		ND		ND	
Carbon disulfide	75-15-0	77		ND		ND		ND		ND	
Carbon tetrachloride	56-23-5	0.65		ND		ND		ND		ND	
Chlorobenzene	108-90-7	28		ND		ND		ND		ND	
Chloroethane	75-00-3	1.4		ND		ND		ND		ND	
Chloroform	67-66-3	0.32		ND		ND		ND		ND	
Chloromethane	74-87-3	11		ND		ND		ND		ND	
cis-1,2-Dichloroethene	156-59-2	16		ND		ND		ND		ND	
cis-1,3-Dichloropropene	10061-01-5	-		ND		ND		ND		ND	
Cyclohexane	110-82-7	650		ND		ND		ND		ND	
Dibromochloromethane	124-48-1	8.3		ND		ND		ND		ND	
Dichlorodifluoromethane	75-71-8	8.7		ND		ND		ND		ND	
Ethylbenzene	100-41-4	5.8		ND		ND		ND		ND	
Freon 113	76-13-1	670		ND		ND		ND		ND	
Isopropylbenzene	98-82-8	190		ND		ND		ND		ND	
Methyl acetate	79-20-9	7,800		ND		ND		ND		ND	
Methyl tertiary butyl ether	1634-04-4	47.000		ND		ND		ND		ND	
Methylcyclohexane	108-87-2	-		ND		ND		ND		ND	
Methylene Chloride	75-09-2	35		ND		ND		ND		ND	
Styrene	100-42-5	600		ND		ND		ND		ND	
Tetrachloroethene	127-18-4	8.1		ND		ND		ND		ND	
Toluene	108-88-3	490		ND		ND		ND		ND	
trans-1,2-Dichloroethene	156-60-5	160		ND		ND		ND		ND	
trans-1,3-Dichloropropene	10061-02-6	-		ND		ND		ND		ND	
Trichloroethene	79-01-6	0.41		ND		ND		ND		ND	
Trichlorofluoromethane	75-69-4	2,300		ND		ND		ND		ND	
Vinyl chloride	75-01-4	0.059		ND		ND		ND		ND	
Xylene (total)	1330-20-7	58		ND		ND		ND		ND	

Notes:

Method - SW846 8260D

Results and Screening Levels (SL) in mg/kg (milligrams per kilogram)

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Screening Level

Table 1
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Volatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	GL-DUP02-1023	Q	GL-GP11-SS-1023	Q	GL-GP12-SS-1023	Q	GL-GP13-SS-1023	Q
			Sample Date	10/24/2023		10/24/2023		10/24/2023		10/24/2023	
			Sample Type	Field Duplicate of GL-GP10-DS-1023		Field Sample		Field Sample		Field Sample	
1,1,1-Trichloroethane	71-55-6	810	ND		ND		ND		ND		
1,1,2,2-Tetrachloroethane	79-34-5	600	ND		ND		ND		ND		
1,1,2-Trichloroethane	79-00-5	0.15	ND		ND		ND		ND		
1,1-Dichloroethane	75-34-3	3.6	ND		ND		ND		ND		
1,1-Dichloroethene	75-35-4	23	ND		ND		ND		ND		
1,2,4-Trichlorobenzene	120-82-1	5.8	ND		ND		ND		ND		
1,2-Dibromo-3-Chloropropane	96-12-8	0.0053	ND		ND		ND		ND		
1,2-Dibromoethane	106-93-4	0.036	ND		ND		ND		ND		
1,2-Dichlorobenzene	95-50-1	180	ND		ND		ND		ND		
1,2-Dichloroethane	107-06-2	0.46	ND		ND		ND		ND		
1,2-Dichloropropane	78-87-5	0.28	ND		ND		ND		ND		
1,3-Dichlorobenzene	541-73-1	-	ND		ND		ND		ND		
1,4-Dichlorobenzene	106-46-7	2.6	ND		ND		ND		ND		
2-Butanone	78-93-3	2,700	ND		ND		ND		ND		
2-Hexanone	591-78-6	20	ND		ND		ND		ND		
4-Methyl-2-pentanone	108-10-1	3.3	ND		ND		ND		ND		
Acetone	67-64-1	6100	ND		ND		ND		ND		
Benzene	71-43-2	1.2	ND		ND		ND		ND		
Bromodichloromethane	75-27-4	0.29	ND		ND		ND		ND		
Bromoform	75-25-2	19	ND		ND		ND		ND		
Bromomethane	74-83-9	0.68	ND		ND		ND		ND		
Carbon disulfide	75-15-0	77	ND		ND		ND		ND		
Carbon tetrachloride	56-23-5	0.65	ND		ND		ND		ND		
Chlorobenzene	108-90-7	28	ND		ND		ND		ND		
Chloroethane	75-00-3	1.4	ND		ND		ND		ND		
Chloroform	67-66-3	0.32	ND		ND		ND		ND		
Chloromethane	74-87-3	11	ND		ND		ND		ND		
cis-1,2-Dichloroethene	156-59-2	16	ND		ND		ND		ND		
cis-1,3-Dichloropropene	10061-01-5	-	ND		ND		ND		ND		
Cyclohexane	110-82-7	650	ND		ND		ND		ND		
Dibromochloromethane	124-48-1	8.3	ND		ND		ND		ND		
Dichlorodifluoromethane	75-71-8	8.7	ND		ND		ND		ND		
Ethylbenzene	100-41-4	5.8	ND		ND		ND		ND		
Freon 113	76-13-1	670	ND		ND		ND		ND		
Isopropylbenzene	98-82-8	190	ND		ND		ND		ND		
Methyl acetate	79-20-9	7,800	ND		ND		ND		ND		
Methyl tertiary butyl ether	1634-04-4	47.000	ND		ND		ND		ND		
Methylcyclohexane	108-87-2	-	ND		ND		ND		ND		
Methylene Chloride	75-09-2	35	ND		ND		ND		ND		
Styrene	100-42-5	600	ND		ND		ND		ND		
Tetrachloroethene	127-18-4	8.1	ND		ND		ND		ND		
Toluene	108-88-3	490	ND		ND		ND		ND		
trans-1,2-Dichloroethene	156-60-5	160	ND		ND		ND		ND		
trans-1,3-Dichloropropene	10061-02-6	-	ND		ND		ND		ND		
Trichloroethene	79-01-6	0.41	ND		ND		ND		ND		
Trichlorofluoromethane	75-69-4	2,300	ND		ND		ND		ND		
Vinyl chloride	75-01-4	0.059	ND		ND		ND		ND		
Xylene (total)	1330-20-7	58	ND		ND		ND		ND		

Notes:

Method - SW846 8260D

Results and Screening Levels (SL) in mg/kg (milligrams per kilogram)

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Table 1
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Volatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	GL-GP14-SS-1023	Q	GL-GP14-DS-1023	Q	GL-GP15-SS-1023	Q	GL-GP16-SS-1023	Q
			Sample Date	10/24/2023		10/24/2023		10/24/2023		10/25/2023	
			Sample Type	Field Sample		Field Sample		Field Sample		Field Sample	
1,1,1-Trichloroethane	71-55-6	810	ND		ND		ND		ND		
1,1,2,2-Tetrachloroethane	79-34-5	600	ND		ND		ND		ND		
1,1,2-Trichloroethane	79-00-5	0.15	ND		ND		ND		ND		
1,1-Dichloroethane	75-34-3	3.6	ND		ND		ND		ND		
1,1-Dichloroethene	75-35-4	23	ND		ND		ND		ND		
1,2,4-Trichlorobenzene	120-82-1	5.8	ND		ND		ND		ND		
1,2-Dibromo-3-Chloropropane	96-12-8	0.0053	ND		ND		ND		ND		
1,2-Dibromoethane	106-93-4	0.036	ND		ND		ND		ND		
1,2-Dichlorobenzene	95-50-1	180	ND		ND		ND		ND		
1,2-Dichloroethane	107-06-2	0.46	ND		ND		ND		ND		
1,2-Dichloropropane	78-87-5	0.28	ND		ND		ND		ND		
1,3-Dichlorobenzene	541-73-1	-	ND		ND		ND		ND		
1,4-Dichlorobenzene	106-46-7	2.6	ND		ND		ND		ND		
2-Butanone	78-93-3	2,700	ND		ND		ND		ND		
2-Hexanone	591-78-6	20	ND		ND		ND		ND		
4-Methyl-2-pentanone	108-10-1	3.3	ND		ND		ND		ND		
Acetone	67-64-1	6100	ND		ND		ND		ND		
Benzene	71-43-2	1.2	ND		ND		ND		ND		
Bromodichloromethane	75-27-4	0.29	ND		ND		ND		ND		
Bromoform	75-25-2	19	ND		ND		ND		ND		
Bromomethane	74-83-9	0.68	ND		ND		ND		ND		
Carbon disulfide	75-15-0	77	ND		ND		ND		ND		
Carbon tetrachloride	56-23-5	0.65	ND		ND		ND		ND		
Chlorobenzene	108-90-7	28	ND		ND		ND		ND		
Chloroethane	75-00-3	1.4	ND		ND		ND		ND		
Chloroform	67-66-3	0.32	ND		ND		ND		ND		
Chloromethane	74-87-3	11	ND		ND		ND		ND		
cis-1,2-Dichloroethene	156-59-2	16	ND		ND		ND		ND		
cis-1,3-Dichloropropene	10061-01-5	-	ND		ND		ND		ND		
Cyclohexane	110-82-7	650	ND		ND		ND		ND		
Dibromochloromethane	124-48-1	8.3	ND		ND		ND		ND		
Dichlorodifluoromethane	75-71-8	8.7	ND		ND		ND		ND		
Ethylbenzene	100-41-4	5.8	ND		ND		ND		ND		
Freon 113	76-13-1	670	ND		ND		ND		ND		
Isopropylbenzene	98-82-8	190	ND		ND		ND		ND		
Methyl acetate	79-20-9	7,800	ND		ND		ND		ND		
Methyl tertiary butyl ether	1634-04-4	47.000	ND		ND		ND		ND		
Methylcyclohexane	108-87-2	-	ND		ND		ND		ND		
Methylene Chloride	75-09-2	35	ND		ND		ND		ND		
Styrene	100-42-5	600	ND		ND		ND		ND		
Tetrachloroethene	127-18-4	8.1	ND		ND		ND		ND		
Toluene	108-88-3	490	ND		ND		ND		ND		
trans-1,2-Dichloroethene	156-60-5	160	ND		ND		ND		ND		
trans-1,3-Dichloropropene	10061-02-6	-	ND		ND		ND		ND		
Trichloroethene	79-01-6	0.41	ND		ND		ND		ND		
Trichlorofluoromethane	75-69-4	2,300	ND		ND		ND		ND		
Vinyl chloride	75-01-4	0.059	ND		ND		ND		ND		
Xylene (total)	1330-20-7	58	ND		ND		ND		ND		

Notes:

Method - SW846 8260D

Results and Screening Levels (SL) in mg/kg (milligrams per kilogram)

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Table 1
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Volatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	GL-GP17-SS-1023	Q	GL-GP17-DS-1023	Q	GL-GP18-SS-1023	Q	GL-GP19-SS-1023	Q
			Sample Date	10/25/2023		10/25/2023		10/25/2023		10/25/2023	
			Sample Type	Field Sample		Field Sample		Field Sample		Field Sample	
1,1,1-Trichloroethane	71-55-6	810	ND		ND		ND		ND		
1,1,2,2-Tetrachloroethane	79-34-5	600	ND		ND		ND		ND		
1,1,2-Trichloroethane	79-00-5	0.15	ND		ND		ND		ND		
1,1-Dichloroethane	75-34-3	3.6	ND		ND		ND		ND		
1,1-Dichloroethene	75-35-4	23	ND		ND		ND		ND		
1,2,4-Trichlorobenzene	120-82-1	5.8	ND		ND		ND		ND		
1,2-Dibromo-3-Chloropropane	96-12-8	0.0053	ND		ND		ND		ND		
1,2-Dibromoethane	106-93-4	0.036	ND		ND		ND		ND		
1,2-Dichlorobenzene	95-50-1	180	ND		ND		ND		ND		
1,2-Dichloroethane	107-06-2	0.46	ND		ND		ND		ND		
1,2-Dichloropropane	78-87-5	0.28	ND		ND		ND		ND		
1,3-Dichlorobenzene	541-73-1	-	ND		ND		ND		ND		
1,4-Dichlorobenzene	106-46-7	2.6	ND		ND		ND		ND		
2-Butanone	78-93-3	2,700	ND		ND		ND		ND		
2-Hexanone	591-78-6	20	ND		ND		ND		ND		
4-Methyl-2-pentanone	108-10-1	3.3	ND		ND		ND		ND		
Acetone	67-64-1	6100	ND		ND		ND		ND		
Benzene	71-43-2	1.2	ND		ND		ND		ND		
Bromodichloromethane	75-27-4	0.29	ND		ND		ND		ND		
Bromoform	75-25-2	19	ND		ND		ND		ND		
Bromomethane	74-83-9	0.68	ND		ND		ND		ND		
Carbon disulfide	75-15-0	77	ND		ND		ND		ND		
Carbon tetrachloride	56-23-5	0.65	ND		ND		ND		ND		
Chlorobenzene	108-90-7	28	ND		ND		ND		ND		
Chloroethane	75-00-3	1.4	ND		ND		ND		ND		
Chloroform	67-66-3	0.32	ND		ND		ND		ND		
Chloromethane	74-87-3	11	ND		ND		ND		ND		
cis-1,2-Dichloroethene	156-59-2	16	ND		ND		ND		ND		
cis-1,3-Dichloropropene	10061-01-5	-	ND		ND		ND		ND		
Cyclohexane	110-82-7	650	ND		ND		ND		ND		
Dibromochloromethane	124-48-1	8.3	ND		ND		ND		ND		
Dichlorodifluoromethane	75-71-8	8.7	ND		ND		ND		ND		
Ethylbenzene	100-41-4	5.8	ND		ND		ND		ND		
Freon 113	76-13-1	670	ND		ND		ND		ND		
Isopropylbenzene	98-82-8	190	ND		ND		ND		ND		
Methyl acetate	79-20-9	7,800	ND		ND		ND		ND		
Methyl tertiary butyl ether	1634-04-4	47.000	ND		ND		ND		ND		
Methylcyclohexane	108-87-2	-	ND		ND		ND		ND		
Methylene Chloride	75-09-2	35	ND		ND		ND		ND		
Styrene	100-42-5	600	ND		ND		ND		ND		
Tetrachloroethene	127-18-4	8.1	ND		ND		ND		ND		
Toluene	108-88-3	490	ND		ND		ND		ND		
trans-1,2-Dichloroethene	156-60-5	160	ND		ND		ND		ND		
trans-1,3-Dichloropropene	10061-02-6	-	ND		ND		ND		ND		
Trichloroethene	79-01-6	0.41	ND		ND		ND		ND		
Trichlorofluoromethane	75-69-4	2,300	ND		ND		ND		ND		
Vinyl chloride	75-01-4	0.059	ND		ND		ND		ND		
Xylene (total)	1330-20-7	58	ND		ND		ND		ND		

Notes:

Method - SW846 8260D

Results and Screening Levels (SL) in mg/kg (milligrams per kilogram)

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Table 1
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Volatile Organic Compounds - Soil

		Sample ID	GL-GP20-SS-1023	Q	GL-GP20-DS-1023	Q	GL-GP21-SS-1023	Q
		Sample Date	10/25/2023		10/25/2023		10/25/2023	
		Sample Type	Field Sample		Field Sample		Field Sample	
Analysis Name	Cas Number	DNREC SL						
1,1,1-Trichloroethane	71-55-6	810	ND		ND		ND	
1,1,2,2-Tetrachloroethane	79-34-5	600	ND		ND		ND	
1,1,2-Trichloroethane	79-00-5	0.15	ND		ND		ND	
1,1-Dichloroethane	75-34-3	3.6	ND		ND		ND	
1,1-Dichloroethene	75-35-4	23	ND		ND		ND	
1,2,4-Trichlorobenzene	120-82-1	5.8	ND		ND		ND	
1,2-Dibromo-3-Chloropropane	96-12-8	0.0053	ND		ND		ND	
1,2-Dibromoethane	106-93-4	0.036	ND		ND		ND	
1,2-Dichlorobenzene	95-50-1	180	ND		ND		ND	
1,2-Dichloroethane	107-06-2	0.46	ND		ND		ND	
1,2-Dichloropropane	78-87-5	0.28	ND		ND		ND	
1,3-Dichlorobenzene	541-73-1	-	ND		ND		ND	
1,4-Dichlorobenzene	106-46-7	2.6	ND		ND		ND	
2-Butanone	78-93-3	2,700	ND		ND		ND	
2-Hexanone	591-78-6	20	ND		ND		ND	
4-Methyl-2-pentanone	108-10-1	3.3	ND		ND		ND	
Acetone	67-64-1	6100	ND		ND		ND	
Benzene	71-43-2	1.2	ND		ND		ND	
Bromodichloromethane	75-27-4	0.29	ND		ND		ND	
Bromoform	75-25-2	19	ND		ND		ND	
Bromomethane	74-83-9	0.68	ND		ND		ND	
Carbon disulfide	75-15-0	77	ND		ND		ND	
Carbon tetrachloride	56-23-5	0.65	ND		ND		ND	
Chlorobenzene	108-90-7	28	ND		ND		ND	
Chloroethane	75-00-3	1.4	ND		ND		ND	
Chloroform	67-66-3	0.32	ND		ND		ND	
Chloromethane	74-87-3	11	ND		ND		ND	
cis-1,2-Dichloroethene	156-59-2	16	ND		ND		ND	
cis-1,3-Dichloropropene	10061-01-5	-	ND		ND		ND	
Cyclohexane	110-82-7	650	ND		ND		ND	
Dibromochloromethane	124-48-1	8.3	ND		ND		ND	
Dichlorodifluoromethane	75-71-8	8.7	ND		ND		ND	
Ethylbenzene	100-41-4	5.8	ND		ND		ND	
Freon 113	76-13-1	670	ND		ND		ND	
Isopropylbenzene	98-82-8	190	ND		ND		ND	
Methyl acetate	79-20-9	7,800	ND		ND		ND	
Methyl tertiary butyl ether	1634-04-4	47.000	ND		ND		ND	
Methylcyclohexane	108-87-2	-	ND		ND		ND	
Methylene Chloride	75-09-2	35	ND		ND		ND	
Styrene	100-42-5	600	ND		ND		ND	
Tetrachloroethene	127-18-4	8.1	ND		ND		ND	
Toluene	108-88-3	490	ND		ND		ND	
trans-1,2-Dichloroethene	156-60-5	160	ND		ND		ND	
trans-1,3-Dichloropropene	10061-02-6	-	ND		ND		ND	
Trichloroethene	79-01-6	0.41	ND		ND		ND	
Trichlorofluoromethane	75-69-4	2,300	ND		ND		ND	
Vinyl chloride	75-01-4	0.059	ND		ND		ND	
Xylene (total)	1330-20-7	58	ND		ND		ND	

Notes:

Method - SW846 8260D

Results and Screening Levels (SL) in mg/kg (milligrams per kilogram)

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Table 1
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Volatile Organic Compounds - Soil

			Sample ID	GL-GP22-SS-1023	Q	GL-GP22-DS-1023	Q
			Sample Date	10/25/2023		10/25/2023	
			Sample Type	Field Sample		Field Sample	
Analysis Name	Cas Number	DNREC SL					
1,1,1-Trichloroethane	71-55-6	810		ND		ND	
1,1,2,2-Tetrachloroethane	79-34-5	600		ND		ND	
1,1,2-Trichloroethane	79-00-5	0.15		ND		ND	
1,1-Dichloroethane	75-34-3	3.6		ND		ND	
1,1-Dichloroethene	75-35-4	23		ND		ND	
1,2,4-Trichlorobenzene	120-82-1	5.8		ND		ND	
1,2-Dibromo-3-Chloropropane	96-12-8	0.0053		ND		ND	
1,2-Dibromoethane	106-93-4	0.036		ND		ND	
1,2-Dichlorobenzene	95-50-1	180		ND		ND	
1,2-Dichloroethane	107-06-2	0.46		ND		ND	
1,2-Dichloropropane	78-87-5	0.28		ND		ND	
1,3-Dichlorobenzene	541-73-1	-		ND		ND	
1,4-Dichlorobenzene	106-46-7	2.6		ND		ND	
2-Butanone	78-93-3	2,700		ND		ND	
2-Hexanone	591-78-6	20		ND		ND	
4-Methyl-2-pentanone	108-10-1	3.3		ND		ND	
Acetone	67-64-1	6100		ND		ND	
Benzene	71-43-2	1.2		ND		ND	
Bromodichloromethane	75-27-4	0.29		ND		ND	
Bromoform	75-25-2	19		ND		ND	
Bromomethane	74-83-9	0.68		ND		ND	
Carbon disulfide	75-15-0	77		ND		ND	
Carbon tetrachloride	56-23-5	0.65		ND		ND	
Chlorobenzene	108-90-7	28		ND		ND	
Chloroethane	75-00-3	1.4		ND		ND	
Chloroform	67-66-3	0.32		ND		ND	
Chloromethane	74-87-3	11		ND		ND	
cis-1,2-Dichloroethene	156-59-2	16		ND		ND	
cis-1,3-Dichloropropene	10061-01-5	-		ND		ND	
Cyclohexane	110-82-7	650		ND		ND	
Dibromochloromethane	124-48-1	8.3		ND		ND	
Dichlorodifluoromethane	75-71-8	8.7		ND		ND	
Ethylbenzene	100-41-4	5.8		ND		ND	
Freon 113	76-13-1	670		ND		ND	
Isopropylbenzene	98-82-8	190		ND		ND	
Methyl acetate	79-20-9	7,800		0.18	J	ND	
Methyl tertiary butyl ether	1634-04-4	47.000		ND		ND	
Methylcyclohexane	108-87-2	-		ND		ND	
Methylene Chloride	75-09-2	35		ND		ND	
Styrene	100-42-5	600		ND		ND	
Tetrachloroethene	127-18-4	8.1		ND		ND	
Toluene	108-88-3	490		ND		ND	
trans-1,2-Dichloroethene	156-60-5	160		ND		ND	
trans-1,3-Dichloropropene	10061-02-6	-		ND		ND	
Trichloroethene	79-01-6	0.41		ND		ND	
Trichlorofluoromethane	75-69-4	2,300		ND		ND	
Vinyl chloride	75-01-4	0.059		ND		ND	
Xylene (total)	1330-20-7	58		ND		ND	

Notes:

Method - SW846 8260D

Results and Screening Levels (SL) in mg/kg (milligrams per kilogram)

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control
Screening Level

Table 2
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Semivolatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	GL-GP1-SS-1023	Q	GL-GP1-DS-1023	Q	GL-GP2-SS-1023	Q	GL-GP2-DS-1023	Q	GL-GP3-SS-1023	Q
			Sample Date	10/23/2023		10/23/2023		10/23/2023		10/23/2023		10/23/2023	
			Sample Type	Field Sample		Field Sample		Field Sample		Field Sample		Field Sample	
1,1'-Biphenyl	92-52-4	4.7	ND		ND		ND		ND		ND		ND
2,2'-oxybis[1-chloropropane]	108-60-1	310	ND		ND		ND		ND		ND		ND
2,4,5-Trichlorophenol	95-95-4	630	ND		ND		ND		ND		ND		ND
2,4,6-Trichlorophenol	88-06-2	6.3	ND		ND		ND		ND		ND		ND
2,4-Dichlorophenol	120-83-2	19	ND		ND		ND		ND		ND		ND
2,4-Dimethylphenol	105-67-9	130	ND		ND		ND		ND		ND		ND
2,4-Dinitrophenol	51-28-5	13	ND		ND		ND		ND		ND		ND
2,4-Dinitrotoluene	121-14-2	1.7	ND		ND		ND		ND		ND		ND
2,6-Dinitrotoluene	606-20-2	0.36	ND		ND		ND		ND		ND		ND
2-Chloronaphthalene	91-58-7	480	ND		ND		ND		ND		ND		ND
2-Chlorophenol	95-57-8	39	ND		ND		ND		ND		ND		ND
2-Methylnaphthalene	91-57-6	24	ND		ND		ND		ND		ND		0.0056 J
2-Methylphenol	95-48-7	320	ND		ND		ND		ND		ND		ND
2-Nitroaniline	88-74-4	63	ND		ND		ND		ND		ND		ND
2-Nitrophenol	88-75-5	-	ND		ND		ND		ND		ND		ND
3,3'-Dichlorobenzidine	91-94-1	1.2	ND		ND		ND		ND		ND		ND
3-Nitroaniline	99-09-2	-	ND		ND		ND		ND		ND		ND
4,6-Dinitro-2-methylphenol	534-52-1	0.51	ND		ND		ND		ND		ND		ND
4-Bromophenyl-phenylether	101-55-3	-	ND		ND		ND		ND		ND		ND
4-Chloro-3-methylphenol	59-50-7	630	ND		ND		ND		ND		ND		ND
4-Chloroaniline	106-47-8	2.7	ND		ND		ND		ND		ND		ND
4-Chlorophenyl-phenyl ether	7005-72-3	-	ND		ND		ND		ND		ND		ND
4-Methylphenol (and/or 3-Methylphenol)	106-44-5	630	ND		ND		ND		ND		ND		ND
4-Nitroaniline	100-01-6	25	ND		ND		ND		ND		ND		ND
4-Nitrophenol	100-02-7	-	ND		ND		ND		ND		ND		ND
Acenaphthene	83-32-9	360	ND		ND		ND		ND		ND		ND
Acenaphthylene	208-96-8	-	ND		ND		0.02		ND		0.01		J
Acetophenone	98-86-2	780	ND		ND		ND		ND		ND		ND
Anthracene	120-12-7	1,800	0.004	J	ND		0.018		ND		0.0098		J
Atrazine	1912-24-9	2.4	ND		ND		ND		ND		ND		ND
Benzaldehyde	100-52-7	170	ND		ND		ND		ND		ND		ND
Benzo[a]anthracene	56-55-3	1.1	0.0073	J	ND		0.038		ND		0.019		ND
Benzo[a]pyrene	50-32-8	0.24	0.0092	J	ND		0.042		ND		0.022		ND
Benzo[b]fluoranthene	205-99-2	1.1	0.016	J	ND		0.09		ND		0.04		ND
Benzo[g,h,i]perylene	191-24-2	-	0.0064	J	ND		0.038		ND		0.02		ND
Benzo[k]fluoranthene	207-08-9	11	0.0043	J	ND		0.026		ND		0.021		ND
Butylbenzylphthalate	85-68-7	290	ND		ND		ND		ND		ND		ND
Caprolactam	105-60-2	3,100	ND		ND		ND		ND		ND		ND
Carbazole	86-74-8	-	ND		ND		ND		ND		ND		ND
Chrysene	218-01-9	110	0.0097	J	ND		0.049		ND		0.025		ND
Di-n-butyl phthalate	84-74-2	67	ND		ND		ND		ND		ND		ND
Di-n-octyl phthalate	117-84-0	16	ND		ND		ND		ND		ND		ND
Dibenz(a,h)anthracene	53-70-3	0.17	ND		ND		0.012	J	ND		ND		ND
Dibenzofuran	132-64-9	7.8	ND		ND		ND		ND		ND		ND
Diethyl phthalate	84-66-2	1100	ND		ND		ND		ND		ND		ND
Dimethyl phthalate	131-11-3	-	ND		ND		ND		ND		ND		ND
Fluoranthene	206-44-0	240	0.013	J	0.0039	J	0.062		ND		0.031		ND
Fluorene	86-73-7	240	ND		ND		ND		ND		ND		ND
Hexachlorobenzene	118-74-1	0.21	ND		ND		ND		ND		ND		ND
Hexachlorobutadiene	87-68-3	1.2	ND		ND		ND		ND		ND		ND
Hexachlorocyclopentadiene	77-47-4	0.18	ND		ND		ND		ND		ND		ND
Hexachloroethane	67-72-1	1.8	ND		ND		ND		ND		ND		ND
Indeno[1,2,3-cd]pyrene	193-39-5	1.3	0.0065	J	ND		0.032		ND		0.019		ND
Isophorone	78-59-1	570	ND		ND		ND		ND		ND		ND
N-Nitrosodi-n-propylamine	621-64-7	0.078	ND		ND		ND		ND		ND		ND
N-Nitrosodiphenylamine	86-30-6	110	ND		ND		ND		ND		ND		ND
Naphthalene	91-20-3	2.0	ND		ND		ND		ND		ND		ND
Nitrobenzene	98-95-3	5.1	ND		ND		ND		ND		ND		ND
Pentachlorophenol	87-86-5	1.0	ND		ND		ND		ND		ND		ND
Phenanthrene	85-01-8	180	ND		ND		0.011	J	ND		0.0072		J
Phenol	108-95-2	1,900	ND		ND		ND		ND		ND		ND
Pyrene	129-00-0	180	0.015	J	ND		0.065		ND		0.032		ND
Bis(2-chloroethoxy)methane	111-91-1	19	ND		ND		ND		ND		ND		ND
Bis(2-chloroethyl)ether	111-44-4	0.23	ND		ND		ND		ND		ND		ND
Bis(2-ethylhexyl) phthalate	117-81-7	39	ND		ND		ND		ND		ND		ND

Notes:

Method - SW846 8270E

Results and Screening Levels (SL) in mg/kg - milligram per kilogram

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control

Screening Level

Shaded - Result above DNREC SL

Table 2
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Semivolatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	GL-GP4-SS-1023	Q	GL-GP4-DS-1023	Q	GL-GP5-SS-1023	Q	GL-DUP-1023	Q	GL-GP6-SS-1023	Q		
			Sample Date	10/23/2023		10/23/2023		10/23/2023		10/23/2023		10/23/2023		10/23/2023	
			Sample Type	Field Sample		Field Sample		Field Sample		Field Duplicate of GL-GP5-SS-1023		Field Sample		Field Sample	
1,1'-Biphenyl	92-52-4	4.7	ND		ND		ND		ND		ND		ND		
2,2'-oxybis[1-chloropropane]	108-60-1	310	ND		ND		ND		ND		ND		ND		
2,4,5-Trichlorophenol	95-95-4	630	ND		ND		ND		ND		ND		ND		
2,4,6-Trichlorophenol	88-06-2	6.3	ND		ND		ND		ND		ND		ND		
2,4-Dichlorophenol	120-83-2	19	ND		ND		ND		ND		ND		ND		
2,4-Dimethylphenol	105-67-9	130	ND		ND		ND		ND		ND		ND		
2,4-Dinitrophenol	51-28-5	13	ND		ND		ND		ND		ND		ND		
2,4-Dinitrotoluene	121-14-2	1.7	ND		ND		ND		ND		ND		ND		
2,6-Dinitrotoluene	606-20-2	0.36	ND		ND		ND		ND		ND		ND		
2-Chloronaphthalene	91-58-7	480	ND		ND		ND		ND		ND		ND		
2-Chlorophenol	95-57-8	39	ND		ND		ND		ND		ND		ND		
2-Methylnaphthalene	91-57-6	24	ND		0.006	J	ND		ND		ND		0.054		
2-Methylphenol	95-48-7	320	ND		ND		ND		ND		ND		ND		
2-Nitroaniline	88-74-4	63	ND		ND		ND		ND		ND		ND		
2-Nitrophenol	88-75-5	-	ND		ND		ND		ND		ND		ND		
3,3'-Dichlorobenzidine	91-94-1	1.2	ND		ND		ND		ND		ND		ND		
3-Nitroaniline	99-09-2	-	ND		ND		ND		ND		ND		ND		
4,6-Dinitro-2-methylphenol	534-52-1	0.51	ND		ND		ND		ND		ND		ND		
4-Bromophenyl-phenylether	101-55-3	-	ND		ND		ND		ND		ND		ND		
4-Chloro-3-methylphenol	59-50-7	630	ND		ND		ND		ND		ND		ND		
4-Chloroaniline	106-47-8	2.7	ND		ND		ND		ND		ND		ND		
4-Chlorophenyl-phenyl ether	7005-72-3	-	ND		ND		ND		ND		ND		ND		
4-Methylphenol (and/or 3-Methylphenol)	106-44-5	630	ND		ND		ND		ND		ND		ND		
4-Nitroaniline	100-01-6	25	ND		ND		ND		ND		ND		ND		
4-Nitrophenol	100-02-7	-	ND		ND		ND		ND		ND		ND		
Acenaphthene	83-32-9	360	ND		ND		ND		ND		ND		0.015		
Acenaphthylene	208-96-8	-	0.0063	J	ND		0.42		0.36		0.36		0.36		
Acetophenone	98-86-2	780	ND		ND		ND		ND		ND		ND		
Anthracene	120-12-7	1,800	0.0072	J	ND		0.39		0.3		0.3		0.3		
Atrazine	1912-24-9	2.4	ND		ND		ND		ND		ND		ND		
Benzaldehyde	100-52-7	170	ND		ND		ND		ND		ND		ND		
Benzo[a]anthracene	56-55-3	1.1	0.0093	J	ND		0.28		0.21		0.21		0.67		
Benzo[a]pyrene	50-32-8	0.24	0.012	J	ND		0.63		0.62		0.62		0.68		
Benzo[b]fluoranthene	205-99-2	1.1	0.026	J	ND		1.7		1.3		1.3		1.5		
Benzo[g,h,i]perylene	191-24-2	-	0.012	J	ND		0.9		0.94		0.94		0.56		
Benzo[k]fluoranthene	207-08-9	11	0.0067	J	ND		0.43		0.47		0.47		0.43		
Butylbenzylphthalate	85-68-7	290	ND		ND		ND		ND		ND		ND		
Caprolactam	105-60-2	3,100	ND		ND		ND		ND		ND		ND		
Carbazole	86-74-8	-	ND		ND		ND		ND		ND		0.11		
Chrysene	218-01-9	110	0.016	J	ND		0.77		0.61		0.61		0.86		
Di-n-butyl phthalate	84-74-2	67	ND		ND		ND		ND		ND		ND		
Di-n-octyl phthalate	117-84-0	16	ND		ND		ND		ND		ND		ND		
Dibenz(a,h)anthracene	53-70-3	0.17	ND		ND		0.27		0.27		0.27		0.15		
Dibenzofuran	132-64-9	7.8	ND		ND		ND		ND		ND		0.035		
Diethyl phthalate	84-66-2	1100	ND		ND		ND		ND		ND		ND		
Dimethyl phthalate	131-11-3	-	ND		ND		ND		ND		ND		ND		
Fluoranthene	206-44-0	240	0.021	J	ND		0.39		0.29		0.29		1.2		
Fluorene	86-73-7	240	ND		ND		0.059	J	0.052	J	0.052		0.026		
Hexachlorobenzene	118-74-1	0.21	ND		ND		ND		ND		ND		ND		
Hexachlorobutadiene	87-68-3	1.2	ND		ND		ND		ND		ND		ND		
Hexachlorocyclopentadiene	77-47-4	0.18	ND		ND		ND		ND		ND		ND		
Hexachloroethane	67-72-1	1.8	ND		ND		ND		ND		ND		ND		
Indeno[1,2,3-cd]pyrene	193-39-5	1.3	0.0085	J	ND		0.67		0.67		0.67		0.52		
Isophorone	78-59-1	570	ND		ND		ND		ND		ND		ND		
N-Nitrosodi-n-propylamine	621-64-7	0.078	ND		ND		ND		ND		ND		ND		
N-Nitrosodiphenylamine	86-30-6	110	ND		ND		ND		ND		ND		ND		
Naphthalene	91-20-3	2.0	ND		ND		ND		ND		ND		0.041		
Nitrobenzene	98-95-3	5.1	ND		ND		ND		ND		ND		ND		
Pentachlorophenol	87-86-5	1.0	ND		ND		ND		ND		ND		ND		
Phenanthrene	85-01-8	180	0.0071	J	ND		0.084	J	0.089	J	0.089		0.23		
Phenol	108-95-2	1,900	ND		ND		ND		ND		ND		ND		
Pyrene	129-00-0	180	0.021	J	ND		0.58		0.44		0.44		1.2		
Bis(2-chloroethoxy)methane	111-91-1	19	ND		ND		ND		ND		ND		ND		
Bis(2-chloroethyl)ether	111-44-4	0.23	ND		ND		ND		ND		ND		ND		
Bis(2-ethylhexyl) phthalate	117-81-7	39	ND		ND		ND		ND		ND		ND		

Notes:

Method - SW846 8270E

Results and Screening Levels (SL) in mg/kg - milligram per kilogram

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control

Screening Level

Shaded - Result above DNREC SL

Table 2
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Semivolatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	GL-GP7-SS-1023	Q	GL-GP7-DS-1023	Q	GL-GP8-SS-1023	Q	GL-GP9-SS-1023	Q
			Sample Date	10/24/2023		10/24/2023		10/24/2023		10/24/2023	
			Sample Type	Field Sample		Field Sample		Field Sample		Field Sample	
1,1'-Biphenyl	92-52-4	4.7	ND		ND		ND		ND		ND
2,2'-oxybis[1-chloropropane]	108-60-1	310	ND		ND		ND		ND		ND
2,4,5-Trichlorophenol	95-95-4	630	ND		ND		ND		ND		ND
2,4,6-Trichlorophenol	88-06-2	6.3	ND		ND		ND		ND		ND
2,4-Dichlorophenol	120-83-2	19	ND		ND		ND		ND		ND
2,4-Dimethylphenol	105-67-9	130	ND		ND		ND		ND		ND
2,4-Dinitrophenol	51-28-5	13	ND		ND		ND		ND		ND
2,4-Dinitrotoluene	121-14-2	1.7	ND		ND		ND		ND		ND
2,6-Dinitrotoluene	606-20-2	0.36	ND		ND		ND		ND		ND
2-Chloronaphthalene	91-58-7	480	ND		ND		ND		ND		ND
2-Chlorophenol	95-57-8	39	ND		ND		ND		ND		ND
2-Methylnaphthalene	91-57-6	24	0.087		ND		0.011	J	0.0063		J
2-Methylphenol	95-48-7	320	ND		ND		ND		ND		ND
2-Nitroaniline	88-74-4	63	ND		ND		ND		ND		ND
2-Nitrophenol	88-75-5	-	ND		ND		ND		ND		ND
3,3'-Dichlorobenzidine	91-94-1	1.2	ND		ND		ND		ND		ND
3-Nitroaniline	99-09-2	-	ND		ND		ND		ND		ND
4,6-Dinitro-2-methylphenol	534-52-1	0.51	ND		ND		ND		ND		ND
4-Bromophenyl-phenylether	101-55-3	-	ND		ND		ND		ND		ND
4-Chloro-3-methylphenol	59-50-7	630	ND		ND		ND		ND		ND
4-Chloroaniline	106-47-8	2.7	ND		ND		ND		ND		ND
4-Chlorophenyl-phenyl ether	7005-72-3	-	ND		ND		ND		ND		ND
4-Methylphenol (and/or 3-Methylphenol)	106-44-5	630	ND		ND		ND		ND		ND
4-Nitroaniline	100-01-6	25	ND		ND		ND		ND		ND
4-Nitrophenol	100-02-7	-	ND		ND		ND		ND		ND
Acenaphthene	83-32-9	360	0.011	J	ND		ND		ND		ND
Acenaphthylene	208-96-8	-	0.24		0.0075	J	0.026		0.028		
Acetophenone	98-86-2	780	ND		ND		ND		ND		ND
Anthracene	120-12-7	1,800	0.18		0.0045	J	0.02	J	0.021		
Atrazine	1912-24-9	2.4	ND		ND		ND		ND		ND
Benzaldehyde	100-52-7	170	ND		ND		ND		ND		ND
Benzo[a]anthracene	56-55-3	1.1	0.45		0.0098	J	0.06		0.064		
Benzo[a]pyrene	50-32-8	0.24	0.49		0.014	J	0.071		0.079		
Benzo[b]fluoranthene	205-99-2	1.1	0.98		0.024	J	0.16		0.16		
Benzo[g,h,i]perylene	191-24-2	-	0.37		0.01	J	0.05		0.07		
Benzo[k]fluoranthene	207-08-9	11	0.30		0.0094	J	0.044		0.045		
Butylbenzylphthalate	85-68-7	290	ND		ND		ND		ND		ND
Caprolactam	105-60-2	3,100	ND		ND		ND		ND		ND
Carbazole	86-74-8	-	0.059		ND		ND		ND		ND
Chrysene	218-01-9	110	0.66		0.014	J	0.086		0.098		
Di-n-butyl phthalate	84-74-2	67	ND		ND		ND		ND		ND
Di-n-octyl phthalate	117-84-0	16	ND		ND		ND		ND		ND
Dibenz[a,h]anthracene	53-70-3	0.17	0.11		ND		0.014	J	0.015		J
Dibenzofuran	132-64-9	7.8	0.036	J	ND		ND		ND		ND
Diethyl phthalate	84-66-2	1100	ND		ND		ND		ND		ND
Dimethyl phthalate	131-11-3	-	ND		ND		ND		ND		ND
Fluoranthene	206-44-0	240	1.0		0.021		0.11		0.15		
Fluorene	86-73-7	240	ND		ND		ND		ND		ND
Hexachlorobenzene	118-74-1	0.21	ND		ND		ND		ND		ND
Hexachlorobutadiene	87-68-3	1.2	ND		ND		ND		ND		ND
Hexachlorocyclopentadiene	77-47-4	0.18	ND		ND		ND		ND		ND
Hexachloroethane	67-72-1	1.8	ND		ND		ND		ND		ND
Indeno[1,2,3-cd]pyrene	193-39-5	1.3	0.36		0.01	J	0.052		0.068		
Isophorone	78-59-1	570	ND		ND		ND		ND		ND
N-Nitrosodi-n-propylamine	621-64-7	0.078	ND		ND		ND		ND		ND
N-Nitrosodiphenylamine	86-30-6	110	ND		ND		ND		ND		ND
Naphthalene	91-20-3	2.0	0.06		ND		ND		ND		ND
Nitrobenzene	98-95-3	5.1	ND		ND		ND		ND		ND
Pentachlorophenol	87-86-5	1.0	ND		ND		ND		ND		ND
Phenanthrene	85-01-8	180	0.28		0.0053	J	0.023		0.025		
Phenol	108-95-2	1,900	ND		ND		ND		ND		ND
Pyrene	129-00-0	180	0.92		0.024		0.11		0.13		
Bis(2-chloroethoxy)methane	111-91-1	19	ND		ND		ND		ND		ND
Bis(2-chloroethyl)ether	111-44-4	0.23	ND		ND		ND		ND		ND
Bis(2-ethylhexyl) phthalate	117-81-7	39	ND		ND		ND		ND		ND

Notes:

Method - SW846 8270E

Results and Screening Levels (SL) in mg/kg - milligram per kilogram

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 2
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Semivolatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	GL-GP10-SS-1023	Q	GL-GP10-DS-1023	Q	GL-DUP02-1023	Q	GL-GP11-SS-1023	Q
			Sample Date	10/24/2023		10/24/2023		10/24/2023		10/24/2023	
			Sample Type	Field Sample		Field Sample		Field Duplicate of GL-GP10-DS-1023		Field Sample	
1,1'-Biphenyl	92-52-4	4.7		ND		ND		ND		ND	
2,2'-oxybis[1-chloropropane]	108-60-1	310		ND		ND		ND		ND	
2,4,5-Trichlorophenol	95-95-4	630		ND		ND		ND		ND	
2,4,6-Trichlorophenol	88-06-2	6.3		ND		ND		ND		ND	
2,4-Dichlorophenol	120-83-2	19		ND		ND		ND		ND	
2,4-Dimethylphenol	105-67-9	130		ND		ND		ND		ND	
2,4-Dinitrophenol	51-28-5	13		ND		ND		ND		ND	
2,4-Dinitrotoluene	121-14-2	1.7		ND		ND		ND		ND	
2,6-Dinitrotoluene	606-20-2	0.36		ND		ND		ND		ND	
2-Chloronaphthalene	91-58-7	480		ND		ND		ND		ND	
2-Chlorophenol	95-57-8	39		ND		ND		ND		ND	
2-Methylnaphthalene	91-57-6	24	0.047			ND		ND		0.042	
2-Methylphenol	95-48-7	320		ND		ND		ND		ND	
2-Nitroaniline	88-74-4	63		ND		ND		ND		ND	
2-Nitrophenol	88-75-5	-		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	91-94-1	1.2		ND		ND		ND		ND	
3-Nitroaniline	99-09-2	-		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	534-52-1	0.51		ND		ND		ND		ND	
4-Bromophenyl-phenylether	101-55-3	-		ND		ND		ND		ND	
4-Chloro-3-methylphenol	59-50-7	630		ND		ND		ND		ND	
4-Chloroaniline	106-47-8	2.7		ND		ND		ND		ND	
4-Chlorophenyl-phenyl ether	7005-72-3	-		ND		ND		ND		ND	
4-Methylphenol (and/or 3-Methylphenol)	106-44-5	630		ND		ND		ND		ND	
4-Nitroaniline	100-01-6	25		ND		ND		ND		ND	
4-Nitrophenol	100-02-7	-		ND		ND		ND		ND	
Acenaphthene	83-32-9	360		ND		ND		ND		ND	
Acenaphthylene	208-96-8	-	0.14			ND		ND		0.12	
Acetophenone	98-86-2	780		ND		ND		ND		ND	
Anthracene	120-12-7	1,800	0.12			0.005	J	ND		0.12	
Atrazine	1912-24-9	2.4		ND		ND		ND		ND	
Benzaldehyde	100-52-7	170		ND		ND		ND		ND	
Benzo[a]anthracene	56-55-3	1.1	0.48			ND		ND		0.24	
Benzo[a]pyrene	50-32-8	0.24	0.47			ND		ND		0.29	
Benzo[b]fluoranthene	205-99-2	1.1	0.88			ND		ND		0.60	
Benzo[g,h,i]perylene	191-24-2	-	0.35			ND		ND		0.24	
Benzo[k]fluoranthene	207-08-9	11	0.31			ND		ND		0.21	
Butylbenzylphthalate	85-68-7	290		ND		ND		ND		ND	
Caprolactam	105-60-2	3,100		ND		ND		ND		ND	
Carbazole	86-74-8	-	0.034	J		ND		ND		0.045	
Chrysene	218-01-9	110	0.56			ND		ND		0.41	
Di-n-butyl phthalate	84-74-2	67		ND		ND		ND		ND	
Di-n-octyl phthalate	117-84-0	16		ND		ND		ND		ND	
Dibenz(a,h)anthracene	53-70-3	0.17	0.094			ND		ND		0.062	
Dibenzofuran	132-64-9	7.8		ND		ND		ND		0.019	J
Diethyl phthalate	84-66-2	1100		ND		ND		ND		ND	
Dimethyl phthalate	131-11-3	-		ND		ND		ND		ND	
Fluoranthene	206-44-0	240	0.85			0.0098	J	ND		0.50	
Fluorene	86-73-7	240	0.013	J		ND		ND		ND	
Hexachlorobenzene	118-74-1	0.21		ND		ND		ND		ND	
Hexachlorobutadiene	87-68-3	1.2		ND		ND		ND		ND	
Hexachlorocyclopentadiene	77-47-4	0.18		ND		ND		ND		ND	
Hexachloroethane	67-72-1	1.8		ND		ND		ND		ND	
Indeno[1,2,3-cd]pyrene	193-39-5	1.3	0.32			ND		ND		0.23	
Isophorone	78-59-1	570		ND		ND		ND		ND	
N-Nitrosodi-n-propylamine	621-64-7	0.078		ND		ND		ND		ND	
N-Nitrosodiphenylamine	86-30-6	110		ND		ND		ND		ND	
Naphthalene	91-20-3	2.0	0.023			ND		ND		0.031	
Nitrobenzene	98-95-3	5.1		ND		ND		ND		ND	
Pentachlorophenol	87-86-5	1.0		ND		ND		ND		ND	
Phenanthrene	85-01-8	180	0.17			0.019	J	ND		0.10	
Phenol	108-95-2	1,900		ND		ND		ND		ND	
Pyrene	129-00-0	180	0.71			0.0093	J	ND		0.48	
Bis(2-chloroethoxy)methane	111-91-1	19		ND		ND		ND		ND	
Bis(2-chloroethyl)ether	111-44-4	0.23		ND		ND		ND		ND	
Bis(2-ethylhexyl) phthalate	117-81-7	39		ND		ND		ND		ND	

Notes:

Method - SW846 8270E

Results and Screening Levels (SL) in mg/kg - milligram per kilogram

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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Screening Level

Shaded - Result above DNREC SL

Table 2
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Semivolatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	GL-GP12-SS-1023	Q	GL-GP13-SS-1023	Q	GL-GP14-SS-1023	Q	GL-GP14-DS-1023	Q
			Sample Date	10/24/2023		10/24/2023		10/24/2023		10/24/2023	
			Sample Type	Field Sample		Field Sample		Field Sample		Field Sample	
1,1'-Biphenyl	92-52-4	4.7		ND		ND		ND		ND	
2,2'-oxybis[1-chloropropane]	108-60-1	310		ND		ND		ND		ND	
2,4,5-Trichlorophenol	95-95-4	630		ND		ND		ND		ND	
2,4,6-Trichlorophenol	88-06-2	6.3		ND		ND		ND		ND	
2,4-Dichlorophenol	120-83-2	19		ND		ND		ND		ND	
2,4-Dimethylphenol	105-67-9	130		ND		ND		ND		ND	
2,4-Dinitrophenol	51-28-5	13		ND		ND		ND		ND	
2,4-Dinitrotoluene	121-14-2	1.7		ND		ND		ND		ND	
2,6-Dinitrotoluene	606-20-2	0.36		ND		ND		ND		ND	
2-Chloronaphthalene	91-58-7	480		ND		ND		ND		ND	
2-Chlorophenol	95-57-8	39		ND		ND		ND		ND	
2-Methylnaphthalene	91-57-6	24		0.02		0.029		0.009	J	ND	
2-Methylphenol	95-48-7	320		ND		ND		ND		ND	
2-Nitroaniline	88-74-4	63		ND		ND		ND		ND	
2-Nitrophenol	88-75-5	-		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	91-94-1	1.2		ND		ND		ND		ND	
3-Nitroaniline	99-09-2	-		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	534-52-1	0.51		ND		ND		ND		ND	
4-Bromophenyl-phenylether	101-55-3	-		ND		ND		ND		ND	
4-Chloro-3-methylphenol	59-50-7	630		ND		ND		ND		ND	
4-Chloroaniline	106-47-8	2.7		ND		ND		ND		ND	
4-Chlorophenyl-phenyl ether	7005-72-3	-		ND		ND		ND		ND	
4-Methylphenol (and/or 3-Methylphenol)	106-44-5	630		ND		ND		ND		ND	
4-Nitroaniline	100-01-6	25		ND		ND		ND		ND	
4-Nitrophenol	100-02-7	-		ND		ND		ND		ND	
Acenaphthene	83-32-9	360		ND		0.007	J	ND		ND	
Acenaphthylene	208-96-8	-		0.028		0.05		0.026		ND	
Acetophenone	98-86-2	780		ND		ND		ND		ND	
Anthracene	120-12-7	1,800		0.033		0.057		0.03		ND	
Atrazine	1912-24-9	2.4		ND		ND		ND		ND	
Benzaldehyde	100-52-7	170		ND		ND		ND		ND	
Benzo[a]anthracene	56-55-3	1.1		0.065		0.13		0.051		0.0068	J
Benzo[a]pyrene	50-32-8	0.24		0.067		0.16		0.07		0.0085	J
Benzo[b]fluoranthene	205-99-2	1.1		0.17		0.36		0.17		0.018	J
Benzo[g,h,i]perylene	191-24-2	-		0.057		0.12		0.063		0.0082	J
Benzo[k]fluoranthene	207-08-9	11		0.052		0.11		0.053		0.0051	J
Butylbenzylphthalate	85-68-7	290		ND		ND		ND		ND	
Caprolactam	105-60-2	3,100		ND		ND		ND		ND	
Carbazole	86-74-8	-		ND		0.027	J	ND		ND	
Chrysene	218-01-9	110		0.11		0.22		0.089		0.011	J
Di-n-butyl phthalate	84-74-2	67		ND		ND		ND		ND	
Di-n-octyl phthalate	117-84-0	16		ND		ND		ND		ND	
Dibenz(a,h)anthracene	53-70-3	0.17		0.017	J	0.033		0.018	J	ND	
Dibenzofuran	132-64-9	7.8		ND		ND		ND		ND	
Diethyl phthalate	84-66-2	1100		ND		ND		ND		ND	
Dimethyl phthalate	131-11-3	-		ND		ND		ND		ND	
Fluoranthene	206-44-0	240		0.12		0.34		0.072		0.013	J
Fluorene	86-73-7	240		ND		0.011	J	ND		ND	
Hexachlorobenzene	118-74-1	0.21		ND		ND		ND		ND	
Hexachlorobutadiene	87-68-3	1.2		ND		ND		ND		ND	
Hexachlorocyclopentadiene	77-47-4	0.18		ND		ND		ND		ND	
Hexachloroethane	67-72-1	1.8		ND		ND		ND		ND	
Indeno[1,2,3-cd]pyrene	193-39-5	1.3		0.061		0.12		0.065		0.0083	J
Isophorone	78-59-1	570		ND		ND		ND		ND	
N-Nitrosodi-n-propylamine	621-64-7	0.078		ND		ND		ND		ND	
N-Nitrosodiphenylamine	86-30-6	110		ND		ND		ND		ND	
Naphthalene	91-20-3	2.0		0.016	J	0.02		ND		ND	
Nitrobenzene	98-95-3	5.1		ND		ND		ND		ND	
Pentachlorophenol	87-86-5	1.0		ND		ND		ND		ND	
Phenanthrene	85-01-8	180		0.038		0.082		0.019	J	ND	
Phenol	108-95-2	1,900		ND		ND		ND		ND	
Pyrene	129-00-0	180		0.12		0.3		0.086		0.014	J
Bis(2-chloroethoxy)methane	111-91-1	19		ND		ND		ND		ND	
Bis(2-chloroethyl)ether	111-44-4	0.23		ND		ND		ND		ND	
Bis(2-ethylhexyl) phthalate	117-81-7	39		ND		ND		ND		ND	

Notes:

Method - SW846 8270E

Results and Screening Levels (SL) in mg/kg - milligram per kilogram

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Screening Level

Shaded - Result above DNREC SL

Table 2
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Semivolatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	Q	Sample ID	Q	Sample ID	Q	Sample ID	Q		
			GL-GP15-SS-1023	GL-GP16-SS-1023	GL-GP17-SS-1023	GL-GP17-SS-1023	GL-GP17-DS-1023					
			10/24/2023	10/25/2023	10/25/2023	10/25/2023	10/25/2023					
Sample Type	Field Sample		Field Sample		Field Sample		Field Sample		Field Sample			
1,1'-Biphenyl	92-52-4	4.7	ND		ND		ND		ND		ND	
2,2'-oxybis[1-chloropropane]	108-60-1	310	ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	95-95-4	630	ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	88-06-2	6.3	ND		ND		ND		ND		ND	
2,4-Dichlorophenol	120-83-2	19	ND		ND		ND		ND		ND	
2,4-Dimethylphenol	105-67-9	130	ND		ND		ND		ND		ND	
2,4-Dinitrophenol	51-28-5	13	ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	121-14-2	1.7	ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	606-20-2	0.36	ND		ND		ND		ND		ND	
2-Chloronaphthalene	91-58-7	480	ND		ND		ND		ND		ND	
2-Chlorophenol	95-57-8	39	ND		ND		ND		ND		ND	
2-Methylnaphthalene	91-57-6	24	0.015	J	0.092		0.014	J	ND		ND	
2-Methylphenol	95-48-7	320	ND		ND		ND		ND		ND	
2-Nitroaniline	88-74-4	63	ND		ND		ND		ND		ND	
2-Nitrophenol	88-75-5	-	ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	91-94-1	1.2	ND		ND		ND		ND		ND	
3-Nitroaniline	99-09-2	-	ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol	534-52-1	0.51	ND		ND		ND		ND		ND	
4-Bromophenyl-phenylether	101-55-3	-	ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol	59-50-7	630	ND		ND		ND		ND		ND	
4-Chloroaniline	106-47-8	2.7	ND		ND		ND		ND		ND	
4-Chlorophenyl-phenyl ether	7005-72-3	-	ND		ND		ND		ND		ND	
4-Methylphenol (and/or 3-Methylphenol)	106-44-5	630	ND		ND		ND		ND		ND	
4-Nitroaniline	100-01-6	25	ND		ND		ND		ND		ND	
4-Nitrophenol	100-02-7	-	ND		ND		ND		ND		ND	
Acenaphthene	83-32-9	360	ND		0.017	J	ND		ND		ND	
Acenaphthylene	208-96-8	-	0.0078	J	0.3		0.019	J	ND		ND	
Acetophenone	98-86-2	780	ND		ND		ND		ND		ND	
Anthracene	120-12-7	1,800	0.01	J	0.24		0.025		ND		ND	
Atrazine	1912-24-9	2.4	ND		ND		ND		ND		ND	
Benzaldehyde	100-52-7	170	ND		ND		ND		ND		ND	
Benzo[a]anthracene	56-55-3	1.1	0.015	J	1.2		0.045		ND		ND	
Benzo[a]pyrene	50-32-8	0.24	0.019	J	1.1		0.049		ND		ND	
Benzo[b]fluoranthene	205-99-2	1.1	0.042		2.1		0.14		ND		ND	
Benzo[g,h,i]perylene	191-24-2	-	0.017	J	0.7		0.051		ND		ND	
Benzo[k]fluoranthene	207-08-9	11	0.012	J	0.67		0.043		ND		ND	
Butylbenzylphthalate	85-68-7	290	ND		ND		ND		ND		ND	
Caprolactam	105-60-2	3,100	ND		ND		ND		ND		ND	
Carbazole	86-74-8	-	ND		0.11		ND		ND		ND	
Chrysene	218-01-9	110	0.028		1.4		0.082		ND		ND	
Di-n-butyl phthalate	84-74-2	67	ND		ND		ND		ND		ND	
Di-n-octyl phthalate	117-84-0	16	ND		ND		ND		ND		ND	
Dibenz(a,h)anthracene	53-70-3	0.17	ND		0.21		0.021	J	ND		ND	
Dibenzofuran	132-64-9	7.8	ND		0.039	J	ND		ND		ND	
Diethyl phthalate	84-66-2	1100	ND		ND		ND		ND		ND	
Dimethyl phthalate	131-11-3	-	ND		ND		ND		ND		ND	
Fluoranthene	206-44-0	240	0.029		2.3		0.07		ND		ND	
Fluorene	86-73-7	240	ND		0.023		ND		ND		ND	
Hexachlorobenzene	118-74-1	0.21	ND		ND		ND		ND		ND	
Hexachlorobutadiene	87-68-3	1.2	ND		ND		ND		ND		ND	
Hexachlorocyclopentadiene	77-47-4	0.18	ND		ND		ND		ND		ND	
Hexachloroethane	67-72-1	1.8	ND		ND		ND		ND		ND	
Indeno[1,2,3-cd]pyrene	193-39-5	1.3	0.016	J	0.72		0.05		ND		ND	
Isophorone	78-59-1	570	ND		ND		ND		ND		ND	
N-Nitrosodi-n-propylamine	621-64-7	0.078	ND		ND		ND		ND		ND	
N-Nitrosodiphenylamine	86-30-6	110	ND		ND		ND		ND		ND	
Naphthalene	91-20-3	2.0	0.0096	J	0.081		0.012	J	ND		ND	
Nitrobenzene	98-95-3	5.1	ND		ND		ND		ND		ND	
Pentachlorophenol	87-86-5	1.0	ND		ND		ND		ND		ND	
Phenanthrene	85-01-8	180	0.015	J	0.26		0.024		ND		ND	
Phenol	108-95-2	1,900	ND		ND		ND		ND		ND	
Pyrene	129-00-0	180	0.031		1.9		0.074		ND		ND	
Bis(2-chloroethoxy)methane	111-91-1	19	ND		ND		ND		ND		ND	
Bis(2-chloroethyl)ether	111-44-4	0.23	ND		ND		ND		ND		ND	
Bis(2-ethylhexyl) phthalate	117-81-7	39	ND		ND		ND		ND		ND	

Notes:

Method - SW846 8270E

Results and Screening Levels (SL) in mg/kg - milligram per kilogram

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control

Screening Level

Shaded - Result above DNREC SL

Table 2
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Semivolatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	GL-GP18-SS-1023	Q	GL-GP19-SS-1023	Q	GL-GP20-SS-1023	Q	GL-GP20-DS-1023	Q		
			Sample Date	10/25/2023		10/25/2023		10/25/2023		10/25/2023		10/25/2023	
			Sample Type	Field Sample		Field Sample		Field Sample		Field Sample		Field Sample	
1,1'-Biphenyl	92-52-4	4.7	ND			ND		ND		ND			
2,2'-oxybis[1-chloropropane]	108-60-1	310	ND			ND		ND		ND			
2,4,5-Trichlorophenol	95-95-4	630	ND			ND		ND		ND			
2,4,6-Trichlorophenol	88-06-2	6.3	ND			ND		ND		ND			
2,4-Dichlorophenol	120-83-2	19	ND			ND		ND		ND			
2,4-Dimethylphenol	105-67-9	130	ND			ND		ND		ND			
2,4-Dinitrophenol	51-28-5	13	ND			ND		ND		ND			
2,4-Dinitrotoluene	121-14-2	1.7	ND			ND		ND		ND			
2,6-Dinitrotoluene	606-20-2	0.36	ND			ND		ND		ND			
2-Chloronaphthalene	91-58-7	480	ND			ND		ND		ND			
2-Chlorophenol	95-57-8	39	ND			ND		ND		ND			
2-Methylnaphthalene	91-57-6	24	0.02			0.14		ND		ND			
2-Methylphenol	95-48-7	320	ND			ND		ND		ND			
2-Nitroaniline	88-74-4	63	ND			ND		ND		ND			
2-Nitrophenol	88-75-5	-	ND			ND		ND		ND			
3,3'-Dichlorobenzidine	91-94-1	1.2	ND			ND		ND		ND			
3-Nitroaniline	99-09-2	-	ND			ND		ND		ND			
4,6-Dinitro-2-methylphenol	534-52-1	0.51	ND			ND		ND		ND			
4-Bromophenyl-phenylether	101-55-3	-	ND			ND		ND		ND			
4-Chloro-3-methylphenol	59-50-7	630	ND			ND		ND		ND			
4-Chloroaniline	106-47-8	2.7	ND			ND		ND		ND			
4-Chlorophenyl-phenyl ether	7005-72-3	-	ND			ND		ND		ND			
4-Methylphenol (and/or 3-Methylphenol)	106-44-5	630	ND			ND		ND		ND			
4-Nitroaniline	100-01-6	25	ND			ND		ND		ND			
4-Nitrophenol	100-02-7	-	ND			ND		ND		ND			
Acenaphthene	83-32-9	360	ND			0.038		ND		ND			
Acenaphthylene	208-96-8	-	0.039			0.48		0.0052	J	ND			
Acetophenone	98-86-2	780	ND			0.02	J	ND		ND			
Anthracene	120-12-7	1,800	0.055			0.44		ND		ND			
Atrazine	1912-24-9	2.4	ND			ND		ND		ND			
Benzaldehyde	100-52-7	170	ND			ND		ND		ND			
Benzo[a]anthracene	56-55-3	1.1	0.086			0.91		0.005	J	ND			
Benzo[a]pyrene	50-32-8	0.24	0.1			1.1		0.0067	J	ND			
Benzo[b]fluoranthene	205-99-2	1.1	0.31			2.4		0.014	J	ND			
Benzo[g,h,i]perylene	191-24-2	-	0.11			0.89		0.0062	J	ND			
Benzo[k]fluoranthene	207-08-9	11	0.086			0.83		ND		ND			
Butylbenzylphthalate	85-68-7	290	ND			ND		ND		ND			
Caprolactam	105-60-2	3,100	ND			ND		ND		ND			
Carbazole	86-74-8	-	0.041			0.23		ND		ND			
Chrysene	218-01-9	110	0.23			1.8		0.0078	J	ND			
Di-n-butyl phthalate	84-74-2	67	ND			ND		ND		ND			
Di-n-octyl phthalate	117-84-0	16	ND			ND		ND		ND			
Dibenz(a,h)anthracene	53-70-3	0.17	0.03			0.25		ND		ND			
Dibenzofuran	132-64-9	7.8	ND			0.059		ND		ND			
Diethyl phthalate	84-66-2	1100	ND			ND		ND		ND			
Dimethyl phthalate	131-11-3	-	ND			ND		ND		ND			
Fluoranthene	206-44-0	240	0.27			3.9		0.0065	J	ND			
Fluorene	86-73-7	240	ND			0.029		ND		ND			
Hexachlorobenzene	118-74-1	0.21	ND			ND		ND		ND			
Hexachlorobutadiene	87-68-3	1.2	ND			ND		ND		ND			
Hexachlorocyclopentadiene	77-47-4	0.18	ND			ND		ND		ND			
Hexachloroethane	67-72-1	1.8	ND			ND		ND		ND			
Indeno[1,2,3-cd]pyrene	193-39-5	1.3	0.097			0.88		ND		ND			
Isophorone	78-59-1	570	ND			ND		ND		ND			
N-Nitrosodi-n-propylamine	621-64-7	0.078	ND			ND		ND		ND			
N-Nitrosodiphenylamine	86-30-6	110	ND			ND		ND		ND			
Naphthalene	91-20-3	2.0	0.018			0.087		ND		ND			
Nitrobenzene	98-95-3	5.1	ND			ND		ND		ND			
Pentachlorophenol	87-86-5	1.0	ND			ND		ND		ND			
Phenanthrene	85-01-8	180	0.054			0.7		ND		ND			
Phenol	108-95-2	1,900	ND			ND		ND		ND			
Pyrene	129-00-0	180	0.26			3.1		0.0089	J	ND			
Bis(2-chloroethoxy)methane	111-91-1	19	ND			ND		ND		ND			
Bis(2-chloroethyl)ether	111-44-4	0.23	ND			ND		ND		ND			
Bis(2-ethylhexyl) phthalate	117-81-7	39	ND			ND		ND		ND			

Notes:

Method - SW846 8270E

Results and Screening Levels (SL) in mg/kg - milligram per kilogram

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control

Screening Level

Shaded - Result above DNREC SL

Table 2
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Semivolatile Organic Compounds - Soil

Analysis Name	Cas Number	DNREC SL	Sample ID	GL-GP21-SS-1023	Q	GL-GP22-SS-1023	Q	GL-GP22-DS-1023	Q
			Sample Date	10/25/2023		10/25/2023		10/25/2023	
			Sample Type	Field Sample		Field Sample		Field Sample	
1,1'-Biphenyl	92-52-4	4.7		ND		ND		ND	
2,2'-oxybis[1-chloropropane]	108-60-1	310		ND		ND		ND	
2,4,5-Trichlorophenol	95-95-4	630		ND		ND		ND	
2,4,6-Trichlorophenol	88-06-2	6.3		ND		ND		ND	
2,4-Dichlorophenol	120-83-2	19		ND		ND		ND	
2,4-Dimethylphenol	105-67-9	130		ND		ND		ND	
2,4-Dinitrophenol	51-28-5	13		ND		ND		ND	
2,4-Dinitrotoluene	121-14-2	1.7		ND		ND		ND	
2,6-Dinitrotoluene	606-20-2	0.36		ND		ND		ND	
2-Chloronaphthalene	91-58-7	480		ND		ND		ND	
2-Chlorophenol	95-57-8	39		ND		ND		ND	
2-Methylnaphthalene	91-57-6	24		0.0073	J	ND		ND	
2-Methylphenol	95-48-7	320		ND		ND		ND	
2-Nitroaniline	88-74-4	63		ND		ND		ND	
2-Nitrophenol	88-75-5	-		ND		ND		ND	
3,3'-Dichlorobenzidine	91-94-1	1.2		ND		ND		ND	
3-Nitroaniline	99-09-2	-		ND		ND		ND	
4,6-Dinitro-2-methylphenol	534-52-1	0.51		ND		ND		ND	
4-Bromophenyl-phenylether	101-55-3	-		ND		ND		ND	
4-Chloro-3-methylphenol	59-50-7	630		ND		ND		ND	
4-Chloroaniline	106-47-8	2.7		ND		ND		ND	
4-Chlorophenyl-phenyl ether	7005-72-3	-		ND		ND		ND	
4-Methylphenol (and/or 3-Methylphenol)	106-44-5	630		ND		ND		ND	
4-Nitroaniline	100-01-6	25		ND		ND		ND	
4-Nitrophenol	100-02-7	-		ND		ND		ND	
Acenaphthene	83-32-9	360		ND		ND		ND	
Acenaphthylene	208-96-8	-		0.02		ND		ND	
Acetophenone	98-86-2	780		ND		ND		ND	
Anthracene	120-12-7	1,800		0.013	J	ND		ND	
Atrazine	1912-24-9	2.4		ND		ND		ND	
Benzaldehyde	100-52-7	170		ND		ND		ND	
Benzo[a]anthracene	56-55-3	1.1		0.033		ND		ND	
Benzo[a]pyrene	50-32-8	0.24		0.053		ND		ND	
Benzo[b]fluoranthene	205-99-2	1.1		0.075		0.32	J	ND	
Benzo[g,h,i]perylene	191-24-2	-		0.049		ND		ND	
Benzo[k]fluoranthene	207-08-9	11		0.034		ND		ND	
Butylbenzylphthalate	85-68-7	290		ND		ND		ND	
Caprolactam	105-60-2	3,100		ND		ND		ND	
Carbazole	86-74-8	-		ND		ND		ND	
Chrysene	218-01-9	110		0.056		0.29	J	ND	
Di-n-butyl phthalate	84-74-2	67		ND		ND		ND	
Di-n-octyl phthalate	117-84-0	16		ND		ND		ND	
Dibenz(a,h)anthracene	53-70-3	0.17		0.012	J	ND		ND	
Dibenzofuran	132-64-9	7.8		ND		ND		ND	
Diethyl phthalate	84-66-2	1100		ND		ND		ND	
Dimethyl phthalate	131-11-3	-		ND		ND		ND	
Fluoranthene	206-44-0	240		0.066		0.37	J	ND	
Fluorene	86-73-7	240		ND		ND		ND	
Hexachlorobenzene	118-74-1	0.21		ND		ND		ND	
Hexachlorobutadiene	87-68-3	1.2		ND		ND		ND	
Hexachlorocyclopentadiene	77-47-4	0.18		ND		ND		ND	
Hexachloroethane	67-72-1	1.8		ND		ND		ND	
Indeno[1,2,3-cd]pyrene	193-39-5	1.3		0.039		ND		ND	
Isophorone	78-59-1	570		ND		ND		ND	
N-Nitrosodi-n-propylamine	621-64-7	0.078		ND		ND		ND	
N-Nitrosodiphenylamine	86-30-6	110		ND		ND		ND	
Naphthalene	91-20-3	2.0		0.0072	J	ND		ND	
Nitrobenzene	98-95-3	5.1		ND		ND		ND	
Pentachlorophenol	87-86-5	1.0		ND		ND		ND	
Phenanthrene	85-01-8	180		0.017	J	ND		ND	
Phenol	108-95-2	1,900		ND		ND		ND	
Pyrene	129-00-0	180		0.073		0.28	J	ND	
Bis(2-chloroethoxy)methane	111-91-1	19		ND		ND		ND	
Bis(2-chloroethyl)ether	111-44-4	0.23		ND		ND		ND	
Bis(2-ethylhexyl) phthalate	117-81-7	39		ND		ND		ND	

Notes:

Method - SW846 8270E

Results and Screening Levels (SL) in mg/kg - milligram per kilogram

Q - Qualifier

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 3
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Pesticides and PCBs - Soil

				Sample ID	GL-GP1-SS-1023	Q	GL-GP1-DS-1023	Q	GL-GP2-SS-1023	Q
				Sample Date	10/23/2023		10/23/2023		10/23/2023	
				Sample Type	Field Sample		Field Sample		Field Sample	
Analysis Name	Method	Cas Number	DNREC SL							
Aldrin	SW-846 8081B	309-00-2	0.039	ND			ND		ND	
alpha-BHC	SW-846 8081B	319-84-6	0.086	ND			ND		ND	
alpha-Chlordane	SW-846 8081B	5103-71-9	-	ND			ND		ND	
beta-BHC	SW-846 8081B	319-85-7	0.30	ND			ND		ND	
delta-BHC	SW-846 8081B	319-86-8	-	ND			ND		ND	
Dieldrin	SW-846 8081B	60-57-1	0.034	ND			ND		ND	
Endosulfan I	SW-846 8081B	959-98-8	-	ND			ND		ND	
Endosulfan II	SW-846 8081B	33213-65-9	-	ND			ND		ND	
Endosulfan sulfate	SW-846 8081B	1031-07-8	-	ND			ND		ND	
Endrin	SW-846 8081B	72-20-8	1.9	ND			ND		ND	
Endrin aldehyde	SW-846 8081B	7421-93-4	-	ND			ND		ND	
Endrin ketone	SW-846 8081B	53494-70-5	-	ND			ND		ND	
gamma-BHC (Lindane)	SW-846 8081B	58-89-9	0.57	ND			ND		ND	
gamma-Chlordane	SW-846 8081B	5103-74-2	-	ND			ND		ND	
Heptachlor	SW-846 8081B	76-44-8	0.13	ND			ND		ND	
Heptachlor epoxide	SW-846 8081B	1024-57-3	0.070	ND			ND		ND	
Methoxychlor	SW-846 8081B	72-43-5	32	ND			ND		ND	
Toxaphene	SW-846 8081B	8001-35-2	0.49	ND			ND		ND	
p,p'-DDD	SW-846 8081B	72-54-8	0.19	ND			ND		ND	
p,p'-DDE	SW-846 8081B	72-55-9	2.0	ND			ND		ND	
p,p'-DDT	SW-846 8081B	50-29-3	1.9	ND			ND		ND	
Dichlorobiphenyls	EPA 680	25512-42-9	-	ND			ND		ND	
Heptachlorobiphenyls	EPA 680	28655-71-2	-	ND			ND		ND	
Hexachlorobiphenyls	EPA 680	26601-64-9	-	ND			ND		ND	
Monochlorobiphenyls	EPA 680	27323-18-8	-	ND			ND		ND	
Nonachlorobiphenyls	EPA 680	53742-07-7	-	ND			ND		ND	
Octachlorobiphenyls	EPA 680	31472-83-0	-	ND			ND		ND	
Pentachlorobiphenyls	EPA 680	25429-29-2	-	ND			ND		ND	
Tetrachlorobiphenyls	EPA 680	26914-33-0	-	ND			ND		ND	
Trichlorobiphenyls	EPA 680	25323-68-6	-	ND			ND		ND	
Decachlorobiphenyl	EPA 680	2051-24-3	-	ND			ND		ND	

Notes:

Results for 8081B are in mg/kg (milligrams per kilogram)

Results for EPA 680 are in ug/kg (micrograms per kilogram)

Q - Qualifier

ND - Not Detected

ND with J Qualifier - Analyte was analyzed but not detected. The reported quantitation limit is approximate and may be inaccurate or J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

R - Associated value is unusable due to significant quality control problems

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 3
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Pesticides and PCBs - Soil

Analysis Name	Method	Cas Number	DNREC SL	Sample ID	GL-GP2-DS-1023	Q	GL-GP3-SS-1023	Q	GL-GP4-SS-1023	Q
				Sample Date	10/23/2023		10/23/2023		10/23/2023	
				Sample Type	Field Sample		Field Sample		Field Sample	
Aldrin	SW-846 8081B	309-00-2	0.039	ND			ND			ND
alpha-BHC	SW-846 8081B	319-84-6	0.086	ND			ND			ND
alpha-Chlordane	SW-846 8081B	5103-71-9	-	ND			ND			ND
beta-BHC	SW-846 8081B	319-85-7	0.30	ND			ND			ND
delta-BHC	SW-846 8081B	319-86-8	-	ND			ND			ND
Dieldrin	SW-846 8081B	60-57-1	0.034	ND			ND			ND
Endosulfan I	SW-846 8081B	959-98-8	-	ND			ND			ND
Endosulfan II	SW-846 8081B	33213-65-9	-	ND			ND			ND
Endosulfan sulfate	SW-846 8081B	1031-07-8	-	ND			ND			ND
Endrin	SW-846 8081B	72-20-8	1.9	ND			ND			ND
Endrin aldehyde	SW-846 8081B	7421-93-4	-	ND			ND			ND
Endrin ketone	SW-846 8081B	53494-70-5	-	ND			ND			ND
gamma-BHC (Lindane)	SW-846 8081B	58-89-9	0.57	ND			ND			ND
gamma-Chlordane	SW-846 8081B	5103-74-2	-	ND			ND			ND
Heptachlor	SW-846 8081B	76-44-8	0.13	ND			ND			ND
Heptachlor epoxide	SW-846 8081B	1024-57-3	0.070	ND			ND			ND
Methoxychlor	SW-846 8081B	72-43-5	32	ND			ND			ND
Toxaphene	SW-846 8081B	8001-35-2	0.49	ND			ND			ND
p,p'-DDD	SW-846 8081B	72-54-8	0.19	ND			ND			ND
p,p'-DDE	SW-846 8081B	72-55-9	2.0	ND			ND			ND
p,p'-DDT	SW-846 8081B	50-29-3	1.9	ND			ND			ND
Dichlorobiphenyls	EPA 680	25512-42-9	-	ND			ND			ND
Heptachlorobiphenyls	EPA 680	28655-71-2	-	ND			ND			ND
Hexachlorobiphenyls	EPA 680	26601-64-9	-	ND			ND			ND
Monochlorobiphenyls	EPA 680	27323-18-8	-	ND			ND			ND
Nonachlorobiphenyls	EPA 680	53742-07-7	-	ND			ND			ND
Octachlorobiphenyls	EPA 680	31472-83-0	-	ND			ND			ND
Pentachlorobiphenyls	EPA 680	25429-29-2	-	ND			ND			ND
Tetrachlorobiphenyls	EPA 680	26914-33-0	-	ND			ND			ND
Trichlorobiphenyls	EPA 680	25323-68-6	-	ND			ND			ND
Decachlorobiphenyl	EPA 680	2051-24-3	-	ND			ND			ND

Notes:

Results for 8081B are in mg/kg (milligrams per kilogram)

Results for EPA 680 are in ug/kg (micrograms per kilogram)

Q - Qualifier

ND - Not Detected

ND with J Qualifier - Analyte was analyzed but not detected. The reported quantitation limit is approximate and may be inaccurate or J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

R - Associated value is unusable due to significant quality control problems

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 3
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Pesticides and PCBs - Soil

Analysis Name	Method	Cas Number	DNREC SL	Sample ID	GL-GP4-DS-1023	Q	GL-GP5-SS-1023	Q	GL-DUP-1023	Q
				Sample Date	10/23/2023		10/23/2023		10/23/2023	
				Sample Type	Field Sample		Field Sample		Field Duplicate of GL-GP5-SS-1023	
Aldrin	SW-846 8081B	309-00-2	0.039	ND			ND		ND	
alpha-BHC	SW-846 8081B	319-84-6	0.086	ND			ND		ND	
alpha-Chlordane	SW-846 8081B	5103-71-9	-	ND			ND		ND	
beta-BHC	SW-846 8081B	319-85-7	0.30	ND			ND		ND	
delta-BHC	SW-846 8081B	319-86-8	-	ND			ND		ND	
Dieldrin	SW-846 8081B	60-57-1	0.034	ND			ND		ND	
Endosulfan I	SW-846 8081B	959-98-8	-	ND			ND		ND	
Endosulfan II	SW-846 8081B	33213-65-9	-	ND			ND		ND	
Endosulfan sulfate	SW-846 8081B	1031-07-8	-	ND			ND		ND	
Endrin	SW-846 8081B	72-20-8	1.9	ND			ND		ND	
Endrin aldehyde	SW-846 8081B	7421-93-4	-	ND			ND		ND	
Endrin ketone	SW-846 8081B	53494-70-5	-	ND			ND		ND	
gamma-BHC (Lindane)	SW-846 8081B	58-89-9	0.57	ND			ND		ND	
gamma-Chlordane	SW-846 8081B	5103-74-2	-	ND			ND		ND	
Heptachlor	SW-846 8081B	76-44-8	0.13	ND			ND		ND	
Heptachlor epoxide	SW-846 8081B	1024-57-3	0.070	ND			ND		ND	
Methoxychlor	SW-846 8081B	72-43-5	32	ND			ND		ND	
Toxaphene	SW-846 8081B	8001-35-2	0.49	ND			ND		ND	
p,p'-DDD	SW-846 8081B	72-54-8	0.19	ND			ND		ND	
p,p'-DDE	SW-846 8081B	72-55-9	2.0	ND			ND		ND	
p,p'-DDT	SW-846 8081B	50-29-3	1.9	ND			ND		ND	
Dichlorobiphenyls	EPA 680	25512-42-9	-	ND			0.87	J	0.69	J
Heptachlorobiphenyls	EPA 680	28655-71-2	-	ND			ND		ND	
Hexachlorobiphenyls	EPA 680	26601-64-9	-	ND			ND		ND	
Monochlorobiphenyls	EPA 680	27323-18-8	-	ND			ND		ND	
Nonachlorobiphenyls	EPA 680	53742-07-7	-	ND			ND		ND	
Octachlorobiphenyls	EPA 680	31472-83-0	-	ND			ND		ND	
Pentachlorobiphenyls	EPA 680	25429-29-2	-	ND			ND		ND	
Tetrachlorobiphenyls	EPA 680	26914-33-0	-	ND			ND		ND	
Trichlorobiphenyls	EPA 680	25323-68-6	-	ND			ND		ND	
Decachlorobiphenyl	EPA 680	2051-24-3	-	ND			ND		ND	

Notes:

Results for 8081B are in mg/kg (milligrams per kilogram)

Results for EPA 680 are in ug/kg (micrograms per kilogram)

Q - Qualifier

ND - Not Detected

ND with J Qualifier - Analyte was analyzed but not detected. The reported quantitation limit is approximate and may be inaccurate or J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

R - Associated value is unusable due to significant quality control problems

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 3
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Pesticides and PCBs - Soil

Analysis Name	Method	Cas Number	DNREC SL	Sample ID	GL-GP6-SS-1023	Q	GL-GP7-SS-1023	Q	GL-GP7-DS-1023	Q
				Sample Date	10/23/2023		10/24/2023		10/24/2023	
				Sample Type	Field Sample		Field Sample		Field Sample	
Aldrin	SW-846 8081B	309-00-2	0.039	ND			ND			ND
alpha-BHC	SW-846 8081B	319-84-6	0.086	ND			ND			ND
alpha-Chlordane	SW-846 8081B	5103-71-9	-	ND			ND			ND
beta-BHC	SW-846 8081B	319-85-7	0.30	ND			ND			ND
delta-BHC	SW-846 8081B	319-86-8	-	ND			ND			ND
Dieldrin	SW-846 8081B	60-57-1	0.034	ND			ND			ND
Endosulfan I	SW-846 8081B	959-98-8	-	ND			ND			ND
Endosulfan II	SW-846 8081B	33213-65-9	-	ND			ND			ND
Endosulfan sulfate	SW-846 8081B	1031-07-8	-	ND			ND			ND
Endrin	SW-846 8081B	72-20-8	1.9	ND			ND			ND
Endrin aldehyde	SW-846 8081B	7421-93-4	-	ND			ND			ND
Endrin ketone	SW-846 8081B	53494-70-5	-	ND			ND			ND
gamma-BHC (Lindane)	SW-846 8081B	58-89-9	0.57	ND			ND			ND
gamma-Chlordane	SW-846 8081B	5103-74-2	-	ND			ND			ND
Heptachlor	SW-846 8081B	76-44-8	0.13	ND			ND			ND
Heptachlor epoxide	SW-846 8081B	1024-57-3	0.070	ND			ND			ND
Methoxychlor	SW-846 8081B	72-43-5	32	ND			ND			ND
Toxaphene	SW-846 8081B	8001-35-2	0.49	ND			ND			ND
p,p'-DDD	SW-846 8081B	72-54-8	0.19	ND			ND			ND
p,p'-DDE	SW-846 8081B	72-55-9	2.0	ND			ND			ND
p,p'-DDT	SW-846 8081B	50-29-3	1.9	ND			ND			ND
Dichlorobiphenyls	EPA 680	25512-42-9	-	ND			ND			ND
Heptachlorobiphenyls	EPA 680	28655-71-2	-	ND			ND			ND
Hexachlorobiphenyls	EPA 680	26601-64-9	-	ND			ND			ND
Monochlorobiphenyls	EPA 680	27323-18-8	-	ND			1.3	J		ND
Nonachlorobiphenyls	EPA 680	53742-07-7	-	ND			ND			ND
Octachlorobiphenyls	EPA 680	31472-83-0	-	ND			ND			ND
Pentachlorobiphenyls	EPA 680	25429-29-2	-	ND			ND			ND
Tetrachlorobiphenyls	EPA 680	26914-33-0	-	ND			ND			ND
Trichlorobiphenyls	EPA 680	25323-68-6	-	ND			ND			ND
Decachlorobiphenyl	EPA 680	2051-24-3	-	ND			ND			ND

Notes:

Results for 8081B are in mg/kg (milligrams per kilogram)

Results for EPA 680 are in ug/kg (micrograms per kilogram)

Q - Qualifier

ND - Not Detected

ND with J Qualifier - Analyte was analyzed but not detected. The reported quantitation limit is approximate and may be inaccurate or J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

R - Associated value is unusable due to significant quality control problems

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 3
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Pesticides and PCBs - Soil

Analysis Name	Method	Cas Number	DNREC SL	Sample ID	GL-GP8-SS-1023	Q	GL-GP9-SS-1023	Q	GL-GP10-SS-1023	Q
				Sample Date	10/24/2023		10/24/2023		10/24/2023	
				Sample Type	Field Sample		Field Sample		Field Sample	
Aldrin	SW-846 8081B	309-00-2	0.039	ND			ND			ND
alpha-BHC	SW-846 8081B	319-84-6	0.086	ND			ND			ND
alpha-Chlordane	SW-846 8081B	5103-71-9	-	ND			ND			ND
beta-BHC	SW-846 8081B	319-85-7	0.30	ND			ND			ND
delta-BHC	SW-846 8081B	319-86-8	-	ND			ND			ND
Dieldrin	SW-846 8081B	60-57-1	0.034	ND			ND			ND
Endosulfan I	SW-846 8081B	959-98-8	-	ND			ND			ND
Endosulfan II	SW-846 8081B	33213-65-9	-	ND			ND			ND
Endosulfan sulfate	SW-846 8081B	1031-07-8	-	ND			ND			ND
Endrin	SW-846 8081B	72-20-8	1.9	ND			ND			ND
Endrin aldehyde	SW-846 8081B	7421-93-4	-	ND			ND			ND
Endrin ketone	SW-846 8081B	53494-70-5	-	ND			ND			ND
gamma-BHC (Lindane)	SW-846 8081B	58-89-9	0.57	ND			ND			ND
gamma-Chlordane	SW-846 8081B	5103-74-2	-	ND			ND			ND
Heptachlor	SW-846 8081B	76-44-8	0.13	ND			ND			ND
Heptachlor epoxide	SW-846 8081B	1024-57-3	0.070	ND			ND			ND
Methoxychlor	SW-846 8081B	72-43-5	32	ND			ND			ND
Toxaphene	SW-846 8081B	8001-35-2	0.49	ND			ND			ND
p,p'-DDD	SW-846 8081B	72-54-8	0.19	ND			ND			ND
p,p'-DDE	SW-846 8081B	72-55-9	2.0	ND			ND			ND
p,p'-DDT	SW-846 8081B	50-29-3	1.9	ND			ND			ND
Dichlorobiphenyls	EPA 680	25512-42-9	-	ND			ND			ND
Heptachlorobiphenyls	EPA 680	28655-71-2	-	ND			ND			ND
Hexachlorobiphenyls	EPA 680	26601-64-9	-	ND			ND			ND
Monochlorobiphenyls	EPA 680	27323-18-8	-	ND			ND			ND
Nonachlorobiphenyls	EPA 680	53742-07-7	-	ND			ND			ND
Octachlorobiphenyls	EPA 680	31472-83-0	-	ND			ND			ND
Pentachlorobiphenyls	EPA 680	25429-29-2	-	ND			ND			ND
Tetrachlorobiphenyls	EPA 680	26914-33-0	-	ND			ND			ND
Trichlorobiphenyls	EPA 680	25323-68-6	-	ND			ND			ND
Decachlorobiphenyl	EPA 680	2051-24-3	-	ND			ND			ND

Notes:

Results for 8081B are in mg/kg (milligrams per kilogram)

Results for EPA 680 are in ug/kg (micrograms per kilogram)

Q - Qualifier

ND - Not Detected

ND with J Qualifier - Analyte was analyzed but not detected. The reported quantitation limit is approximate and may be inaccurate or J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

R - Associated value is unusable due to significant quality control problems

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 3
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Pesticides and PCBs - Soil

				Sample ID	GL-GP10-DS-1023	Q	GL-DUP02-1023	Q	GL-GP11-SS-1023	Q
				Sample Date	10/24/2023		10/24/2023		10/24/2023	
				Sample Type	Field Sample		Field Duplicate of GL-GP10-DS-1023		Field Sample	
Analysis Name	Method	Cas Number	DNREC SL							
Aldrin	SW-846 8081B	309-00-2	0.039		ND		ND		ND	
alpha-BHC	SW-846 8081B	319-84-6	0.086		ND		ND		ND	
alpha-Chlordane	SW-846 8081B	5103-71-9	-		ND		ND		ND	
beta-BHC	SW-846 8081B	319-85-7	0.30		ND		ND		ND	
delta-BHC	SW-846 8081B	319-86-8	-		ND		ND		ND	
Dieldrin	SW-846 8081B	60-57-1	0.034		ND		ND		ND	
Endosulfan I	SW-846 8081B	959-98-8	-		ND		ND		ND	
Endosulfan II	SW-846 8081B	33213-65-9	-		ND		ND		ND	
Endosulfan sulfate	SW-846 8081B	1031-07-8	-		ND		ND		ND	
Endrin	SW-846 8081B	72-20-8	1.9		ND		ND		ND	
Endrin aldehyde	SW-846 8081B	7421-93-4	-		ND		ND		ND	
Endrin ketone	SW-846 8081B	53494-70-5	-		ND		ND		ND	
gamma-BHC (Lindane)	SW-846 8081B	58-89-9	0.57		ND		ND		ND	
gamma-Chlordane	SW-846 8081B	5103-74-2	-		ND		ND		ND	
Heptachlor	SW-846 8081B	76-44-8	0.13		ND		ND		ND	
Heptachlor epoxide	SW-846 8081B	1024-57-3	0.070		ND		ND		ND	
Methoxychlor	SW-846 8081B	72-43-5	32		ND		ND		ND	
Toxaphene	SW-846 8081B	8001-35-2	0.49		ND		ND		ND	
p,p'-DDD	SW-846 8081B	72-54-8	0.19		ND		ND		ND	
p,p'-DDE	SW-846 8081B	72-55-9	2.0		ND		ND		ND	
p,p'-DDT	SW-846 8081B	50-29-3	1.9		ND		ND		ND	
Dichlorobiphenyls	EPA 680	25512-42-9	-		ND		ND		ND	
Heptachlorobiphenyls	EPA 680	28655-71-2	-		ND		ND		ND	
Hexachlorobiphenyls	EPA 680	26601-64-9	-		ND		ND		ND	
Monochlorobiphenyls	EPA 680	27323-18-8	-		ND		ND		ND	
Nonachlorobiphenyls	EPA 680	53742-07-7	-		ND		ND		ND	
Octachlorobiphenyls	EPA 680	31472-83-0	-		ND		ND		ND	
Pentachlorobiphenyls	EPA 680	25429-29-2	-		ND		ND		ND	
Tetrachlorobiphenyls	EPA 680	26914-33-0	-		ND		ND		ND	
Trichlorobiphenyls	EPA 680	25323-68-6	-		ND		ND		ND	
Decachlorobiphenyl	EPA 680	2051-24-3	-		ND		ND		ND	

Notes:

Results for 8081B are in mg/kg (milligrams per kilogram)

Results for EPA 680 are in ug/kg (micrograms per kilogram)

Q - Qualifier

ND - Not Detected

ND with J Qualifier - Analyte was analyzed but not detected. The reported quantitation limit is approximate and may be inaccurate or J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

R - Associated value is unusable due to significant quality control problems

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 3
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Pesticides and PCBs - Soil

				Sample ID	GL-GP12-SS-1023	Q	GL-GP13-SS-1023	Q	GL-GP14-SS-1023	Q
				Sample Date	10/24/2023		10/24/2023		10/24/2023	
				Sample Type	Field Sample		Field Sample		Field Sample	
Analysis Name	Method	Cas Number	DNREC SL							
Aldrin	SW-846 8081B	309-00-2	0.039	ND			ND		ND	
alpha-BHC	SW-846 8081B	319-84-6	0.086	ND			ND		ND	
alpha-Chlordane	SW-846 8081B	5103-71-9	-	ND			ND		ND	
beta-BHC	SW-846 8081B	319-85-7	0.30	ND			ND		ND	
delta-BHC	SW-846 8081B	319-86-8	-	ND			ND		ND	
Dieldrin	SW-846 8081B	60-57-1	0.034	ND			ND		ND	
Endosulfan I	SW-846 8081B	959-98-8	-	ND			ND		ND	
Endosulfan II	SW-846 8081B	33213-65-9	-	ND			ND		ND	
Endosulfan sulfate	SW-846 8081B	1031-07-8	-	ND			ND		ND	
Endrin	SW-846 8081B	72-20-8	1.9	ND			ND		ND	
Endrin aldehyde	SW-846 8081B	7421-93-4	-	ND			ND		ND	
Endrin ketone	SW-846 8081B	53494-70-5	-	ND			ND		ND	
gamma-BHC (Lindane)	SW-846 8081B	58-89-9	0.57	ND			ND		ND	
gamma-Chlordane	SW-846 8081B	5103-74-2	-	ND			ND		ND	
Heptachlor	SW-846 8081B	76-44-8	0.13	ND			ND		ND	
Heptachlor epoxide	SW-846 8081B	1024-57-3	0.070	ND			ND		ND	
Methoxychlor	SW-846 8081B	72-43-5	32	ND			ND		ND	
Toxaphene	SW-846 8081B	8001-35-2	0.49	0.024	J		ND		ND	
p,p'-DDD	SW-846 8081B	72-54-8	0.19	ND			ND		ND	
p,p'-DDE	SW-846 8081B	72-55-9	2.0	ND			ND		ND	
p,p'-DDT	SW-846 8081B	50-29-3	1.9	ND			ND		ND	
Dichlorobiphenyls	EPA 680	25512-42-9	-	ND			ND		ND	J
Heptachlorobiphenyls	EPA 680	28655-71-2	-	ND			ND		ND	J
Hexachlorobiphenyls	EPA 680	26601-64-9	-	ND			ND		ND	J
Monochlorobiphenyls	EPA 680	27323-18-8	-	ND			ND		ND	J
Nonachlorobiphenyls	EPA 680	53742-07-7	-	ND			ND		ND	J
Octachlorobiphenyls	EPA 680	31472-83-0	-	ND			ND		ND	J
Pentachlorobiphenyls	EPA 680	25429-29-2	-	ND			ND		ND	J
Tetrachlorobiphenyls	EPA 680	26914-33-0	-	ND			ND		ND	J
Trichlorobiphenyls	EPA 680	25323-68-6	-	ND			ND		ND	J
Decachlorobiphenyl	EPA 680	2051-24-3	-	ND			ND		ND	J

Notes:

Results for 8081B are in mg/kg (milligrams per kilogram)
 Results for EPA 680 are in ug/kg (micrograms per kilogram)
 Q - Qualifier
 ND - Not Detected
 ND with J Qualifier - Analyte was analyzed but not detected. The reported quantitation limit is approximate and may be inaccurate or
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 R - Associated value is unusable due to significant quality control problems
 DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 3
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Pesticides and PCBs - Soil

Analysis Name	Method	Cas Number	DNREC SL	Sample ID	GL-GP14-DS-1023	Q	GL-GP15-SS-1023	Q	GL-GP16-SS-1023	Q
				Sample Date	10/24/2023		10/24/2023		10/25/2023	
				Sample Type	Field Sample		Field Sample		Field Sample	
Aldrin	SW-846 8081B	309-00-2	0.039	ND			ND			ND
alpha-BHC	SW-846 8081B	319-84-6	0.086	ND			ND			ND
alpha-Chlordane	SW-846 8081B	5103-71-9	-	ND			ND			ND
beta-BHC	SW-846 8081B	319-85-7	0.30	ND			ND			ND
delta-BHC	SW-846 8081B	319-86-8	-	ND			ND			ND
Dieldrin	SW-846 8081B	60-57-1	0.034	ND			ND			ND
Endosulfan I	SW-846 8081B	959-98-8	-	ND			ND			ND
Endosulfan II	SW-846 8081B	33213-65-9	-	ND			ND			ND
Endosulfan sulfate	SW-846 8081B	1031-07-8	-	ND			ND			ND
Endrin	SW-846 8081B	72-20-8	1.9	ND			ND			ND
Endrin aldehyde	SW-846 8081B	7421-93-4	-	ND			ND			ND
Endrin ketone	SW-846 8081B	53494-70-5	-	ND			ND			ND
gamma-BHC (Lindane)	SW-846 8081B	58-89-9	0.57	ND			ND			ND
gamma-Chlordane	SW-846 8081B	5103-74-2	-	ND			ND			ND
Heptachlor	SW-846 8081B	76-44-8	0.13	ND			ND			ND
Heptachlor epoxide	SW-846 8081B	1024-57-3	0.070	ND			ND			ND
Methoxychlor	SW-846 8081B	72-43-5	32	ND			ND			ND
Toxaphene	SW-846 8081B	8001-35-2	0.49	ND			ND			ND
p,p'-DDD	SW-846 8081B	72-54-8	0.19	ND			ND			ND
p,p'-DDE	SW-846 8081B	72-55-9	2.0	ND			ND			ND
p,p'-DDT	SW-846 8081B	50-29-3	1.9	ND			ND			ND
Dichlorobiphenyls	EPA 680	25512-42-9	-	ND			ND	R		ND
Heptachlorobiphenyls	EPA 680	28655-71-2	-	ND			ND	R		ND
Hexachlorobiphenyls	EPA 680	26601-64-9	-	ND			ND	R		ND
Monochlorobiphenyls	EPA 680	27323-18-8	-	ND			ND	R		ND
Nonachlorobiphenyls	EPA 680	53742-07-7	-	ND			ND	R		ND
Octachlorobiphenyls	EPA 680	31472-83-0	-	ND			ND	R		ND
Pentachlorobiphenyls	EPA 680	25429-29-2	-	ND			ND	R		ND
Tetrachlorobiphenyls	EPA 680	26914-33-0	-	ND			ND	R		ND
Trichlorobiphenyls	EPA 680	25323-68-6	-	ND			ND	R		ND
Decachlorobiphenyl	EPA 680	2051-24-3	-	ND			ND	R		ND

Notes:

Results for 8081B are in mg/kg (milligrams per kilogram)

Results for EPA 680 are in ug/kg (micrograms per kilogram)

Q - Qualifier

ND - Not Detected

ND with J Qualifier - Analyte was analyzed but not detected. The reported quantitation limit is approximate and may be inaccurate or
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

R - Associated value is unusable due to significant quality control problems

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 3
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Pesticides and PCBs - Soil

Analysis Name	Method	Cas Number	DNREC SL	Sample ID	GL-GP17-SS-1023	Q	GL-GP17-DS-1023	Q	GL-GP18-SS-1023	Q
				Sample Date	10/25/2023		10/25/2023		10/25/2023	
				Sample Type	Field Sample		Field Sample		Field Sample	
Aldrin	SW-846 8081B	309-00-2	0.039		ND		ND		ND	
alpha-BHC	SW-846 8081B	319-84-6	0.086		ND		ND		ND	
alpha-Chlordane	SW-846 8081B	5103-71-9	-		ND		ND		ND	
beta-BHC	SW-846 8081B	319-85-7	0.30		ND		ND		ND	
delta-BHC	SW-846 8081B	319-86-8	-		ND		ND		ND	
Dieldrin	SW-846 8081B	60-57-1	0.034		ND		ND		ND	
Endosulfan I	SW-846 8081B	959-98-8	-		ND		ND		ND	
Endosulfan II	SW-846 8081B	33213-65-9	-		ND		ND		ND	
Endosulfan sulfate	SW-846 8081B	1031-07-8	-		ND		ND		ND	
Endrin	SW-846 8081B	72-20-8	1.9		ND		ND		ND	
Endrin aldehyde	SW-846 8081B	7421-93-4	-		ND		ND		ND	
Endrin ketone	SW-846 8081B	53494-70-5	-		ND		ND		ND	
gamma-BHC (Lindane)	SW-846 8081B	58-89-9	0.57		ND		ND		ND	
gamma-Chlordane	SW-846 8081B	5103-74-2	-		ND		ND		ND	
Heptachlor	SW-846 8081B	76-44-8	0.13		ND		ND		ND	
Heptachlor epoxide	SW-846 8081B	1024-57-3	0.070		ND		ND		ND	
Methoxychlor	SW-846 8081B	72-43-5	32		ND		ND		ND	
Toxaphene	SW-846 8081B	8001-35-2	0.49		ND		ND		ND	
p,p'-DDD	SW-846 8081B	72-54-8	0.19		ND		ND		ND	
p,p'-DDE	SW-846 8081B	72-55-9	2.0		ND		ND		ND	
p,p'-DDT	SW-846 8081B	50-29-3	1.9		ND		ND		ND	
Dichlorobiphenyls	EPA 680	25512-42-9	-		ND		ND		ND	
Heptachlorobiphenyls	EPA 680	28655-71-2	-		ND		ND		ND	
Hexachlorobiphenyls	EPA 680	26601-64-9	-		ND		ND		ND	
Monochlorobiphenyls	EPA 680	27323-18-8	-		ND		ND		ND	
Nonachlorobiphenyls	EPA 680	53742-07-7	-		ND		ND		ND	
Octachlorobiphenyls	EPA 680	31472-83-0	-		ND		ND		ND	
Pentachlorobiphenyls	EPA 680	25429-29-2	-		ND		ND		ND	
Tetrachlorobiphenyls	EPA 680	26914-33-0	-		ND		ND		ND	
Trichlorobiphenyls	EPA 680	25323-68-6	-		ND		ND		ND	
Decachlorobiphenyl	EPA 680	2051-24-3	-		ND		ND		ND	

Notes:

Results for 8081B are in mg/kg (milligrams per kilogram)

Results for EPA 680 are in ug/kg (micrograms per kilogram)

Q - Qualifier

ND - Not Detected

ND with J Qualifier - Analyte was analyzed but not detected. The reported quantitation limit is approximate and may be inaccurate or J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

R - Associated value is unusable due to significant quality control problems

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 3
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Pesticides and PCBs - Soil

Analysis Name	Method	Cas Number	DNREC SL	Sample ID	GL-GP19-SS-1023	Q	GL-GP20-SS-1023	Q	GL-GP20-DS-1023	Q
				Sample Date	10/25/2023		10/25/2023		10/25/2023	
				Sample Type	Field Sample		Field Sample		Field Sample	
Aldrin	SW-846 8081B	309-00-2	0.039	ND			ND			ND
alpha-BHC	SW-846 8081B	319-84-6	0.086	ND			ND			ND
alpha-Chlordane	SW-846 8081B	5103-71-9	-	ND			ND			ND
beta-BHC	SW-846 8081B	319-85-7	0.30	ND			ND			ND
delta-BHC	SW-846 8081B	319-86-8	-	ND			ND			ND
Dieldrin	SW-846 8081B	60-57-1	0.034	ND			ND			ND
Endosulfan I	SW-846 8081B	959-98-8	-	ND			ND			ND
Endosulfan II	SW-846 8081B	33213-65-9	-	ND			ND			ND
Endosulfan sulfate	SW-846 8081B	1031-07-8	-	ND			ND			ND
Endrin	SW-846 8081B	72-20-8	1.9	ND			ND			ND
Endrin aldehyde	SW-846 8081B	7421-93-4	-	ND			ND			ND
Endrin ketone	SW-846 8081B	53494-70-5	-	ND			ND			ND
gamma-BHC (Lindane)	SW-846 8081B	58-89-9	0.57	ND			ND			ND
gamma-Chlordane	SW-846 8081B	5103-74-2	-	ND			ND			ND
Heptachlor	SW-846 8081B	76-44-8	0.13	ND			ND			ND
Heptachlor epoxide	SW-846 8081B	1024-57-3	0.070	ND			ND			ND
Methoxychlor	SW-846 8081B	72-43-5	32	ND			ND			ND
Toxaphene	SW-846 8081B	8001-35-2	0.49	ND			ND			ND
p,p'-DDD	SW-846 8081B	72-54-8	0.19	ND			ND			ND
p,p'-DDE	SW-846 8081B	72-55-9	2.0	ND			ND			ND
p,p'-DDT	SW-846 8081B	50-29-3	1.9	ND			ND			ND
Dichlorobiphenyls	EPA 680	25512-42-9	-	ND			ND			ND
Heptachlorobiphenyls	EPA 680	28655-71-2	-	ND			ND			ND
Hexachlorobiphenyls	EPA 680	26601-64-9	-	ND			ND			ND
Monochlorobiphenyls	EPA 680	27323-18-8	-	ND			ND			ND
Nonachlorobiphenyls	EPA 680	53742-07-7	-	ND			ND			ND
Octachlorobiphenyls	EPA 680	31472-83-0	-	ND			ND			ND
Pentachlorobiphenyls	EPA 680	25429-29-2	-	ND			ND			ND
Tetrachlorobiphenyls	EPA 680	26914-33-0	-	ND			ND			ND
Trichlorobiphenyls	EPA 680	25323-68-6	-	ND			ND			ND
Decachlorobiphenyl	EPA 680	2051-24-3	-	ND			ND			ND

Notes:

Results for 8081B are in mg/kg (milligrams per kilogram)

Results for EPA 680 are in ug/kg (micrograms per kilogram)

Q - Qualifier

ND - Not Detected

ND with J Qualifier - Analyte was analyzed but not detected. The reported quantitation limit is approximate and may be inaccurate or J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

R - Associated value is unusable due to significant quality control problems

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 3
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Pesticides and PCBs - Soil

Analysis Name	Method	Cas Number	DNREC SL	Sample ID	GL-GP21-SS-1023	Q	GL-GP22-SS-1023	Q	GL-GP22-DS-1023	Q
				Sample Date	10/25/2023		10/25/2023		10/25/2023	
				Sample Type	Field Sample		Field Sample		Field Sample	
Aldrin	SW-846 8081B	309-00-2	0.039	ND	0.0063	J	ND		ND	
alpha-BHC	SW-846 8081B	319-84-6	0.086	ND	ND		ND		ND	
alpha-Chlordane	SW-846 8081B	5103-71-9	-	ND	0.0033	J	ND		ND	
beta-BHC	SW-846 8081B	319-85-7	0.30	ND	ND		ND		ND	
delta-BHC	SW-846 8081B	319-86-8	-	ND	ND		ND		ND	
Dieldrin	SW-846 8081B	60-57-1	0.034	ND	ND		ND		ND	
Endosulfan I	SW-846 8081B	959-98-8	-	ND	ND		ND		ND	
Endosulfan II	SW-846 8081B	33213-65-9	-	ND	ND		ND		ND	
Endosulfan sulfate	SW-846 8081B	1031-07-8	-	ND	ND		ND		ND	
Endrin	SW-846 8081B	72-20-8	1.9	ND	ND		ND		ND	
Endrin aldehyde	SW-846 8081B	7421-93-4	-	ND	ND		ND		ND	
Endrin ketone	SW-846 8081B	53494-70-5	-	ND	ND		ND		ND	
gamma-BHC (Lindane)	SW-846 8081B	58-89-9	0.57	ND	ND		ND		ND	
gamma-Chlordane	SW-846 8081B	5103-74-2	-	ND	0.005	J	ND		ND	
Heptachlor	SW-846 8081B	76-44-8	0.13	ND	ND		ND		ND	
Heptachlor epoxide	SW-846 8081B	1024-57-3	0.070	ND	ND		ND		ND	
Methoxychlor	SW-846 8081B	72-43-5	32	ND	ND		ND		ND	
Toxaphene	SW-846 8081B	8001-35-2	0.49	ND	ND		ND		ND	
p,p'-DDD	SW-846 8081B	72-54-8	0.19	ND	ND		ND		ND	
p,p'-DDE	SW-846 8081B	72-55-9	2.0	ND	ND		ND		ND	
p,p'-DDT	SW-846 8081B	50-29-3	1.9	ND	ND		ND		ND	
Dichlorobiphenyls	EPA 680	25512-42-9	-	ND	ND		ND		ND	
Heptachlorobiphenyls	EPA 680	28655-71-2	-	ND	ND		ND		ND	
Hexachlorobiphenyls	EPA 680	26601-64-9	-	ND	ND		ND		ND	
Monochlorobiphenyls	EPA 680	27323-18-8	-	ND	ND		ND		ND	
Nonachlorobiphenyls	EPA 680	53742-07-7	-	ND	ND		ND		ND	
Octachlorobiphenyls	EPA 680	31472-83-0	-	ND	ND		ND		ND	
Pentachlorobiphenyls	EPA 680	25429-29-2	-	ND	ND		ND		ND	
Tetrachlorobiphenyls	EPA 680	26914-33-0	-	ND	ND		ND		ND	
Trichlorobiphenyls	EPA 680	25323-68-6	-	ND	ND		ND		ND	
Decachlorobiphenyl	EPA 680	2051-24-3	-	ND	ND		ND		ND	

Notes:

Results for 8081B are in mg/kg (milligrams per kilogram)
 Results for EPA 680 are in ug/kg (micrograms per kilogram)
 Q - Qualifier
 ND - Not Detected
 ND with J Qualifier - Analyte was analyzed but not detected. The reported quantitation limit is approximate and may be inaccurate or
 J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
 R - Associated value is unusable due to significant quality control problems
 DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 4
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Inorganics - Soil

		Sample ID	GL-GP1-SS-1023	Q	GL-GP1-DS-1023	Q	GL-GP2-SS-1023	Q	GL-GP2-DS-1023	Q
		Sample Date	10/23/2023		10/23/2023		10/23/2023		10/23/2023	
		Sample Type	Field Sample		Field Sample		Field Sample		Field Sample	
Analysis Name	Cas Number	DNREC SL								
Aluminum	7429-90-5	51200	7000		15000		13000		10000	
Antimony	7440-36-0	3.1	ND		ND		ND		ND	
Arsenic	7440-38-2	11	0.57		1.3		0.9		0.7	
Barium	7440-39-3	1500	22		20		33		16	
Beryllium	7440-41-7	16	0.13		0.15		0.18		0.15	
Cadmium	7440-43-9	7.1	ND		ND		0.045	J	ND	
Calcium	7440-70-2	-	200		150		1300		110	
Chromium	7440-47-3	214	4.5		7.8		8.3		5.4	
Cobalt	7440-48-4	34	0.56		2.0		2.5		1.1	
Copper	7440-50-8	310	1.1		2.0		10		1.8	
Iron	7439-89-6	74767	1500		3900		4400		2500	
Lead	7439-92-1	400	4.4		3.0		5.7		2.6	
Magnesium	7439-95-4	-	290		280		1300		170	
Manganese	7439-96-5	2100	14		31		55		38	
Nickel	7440-02-0	150	1.9		3.9		6.1		3.1	
Potassium	7440-09-7	-	310		320		470		210	
Selenium	7782-49-2	39	0.093	J	ND		0.2	J	ND	
Silver	7440-22-4	39	ND		ND		ND		ND	
Sodium	7440-23-5	-	ND		ND		210		27	J
Thallium	7440-28-0	0.078	0.11		ND		0.1		ND	
Zinc	7440-66-6	2300	4.4	J	7.7	J	31		5.8	J
Vanadium	7440-62-2	134	6.9		7.6		16		7.2	
Mercury	7439-97-6	1.1	ND		ND		ND		ND	
Cyanide	57-12-5	2.3	ND		ND		ND		ND	

Notes:

Method - SW846 6020B for Metals, SW 846 7471B for Mercury, and SW846 9012B for

Results and DNREC screening levels (SLs) in mg/kg (milligrams per kilogram)

Q - Qualifier

J - Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value
 J + - Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value, biased high.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 4
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Inorganics - Soil

		Sample ID	GL-GP3-SS-1023	Q	GL-GP4-SS-1023	Q	GL-GP4-DS-1023	Q	GL-GP5-SS-1023	Q	GL-DUP-1023	Q
		Sample Date	10/23/2023		10/23/2023		10/23/2023		10/23/2023		10/23/2023	
		Sample Type	Field Sample		Field Sample		Field Sample		Field Sample		Field Duplicate of GL-GP5-SS-1023	
Analysis Name	Cas Number	DNREC SL										
Aluminum	7429-90-5	51200	6100		9300		24000		6000		5400	
Antimony	7440-36-0	3.1	ND		0.083	J	ND		0.12	J	0.22	
Arsenic	7440-38-2	11	0.64		2.2		0.92		1.5		2.1	
Barium	7440-39-3	1500	16		35		34		27		31	
Beryllium	7440-41-7	16	0.081	J	0.17		0.44		0.24		0.23	
Cadmium	7440-43-9	7.1	ND		ND		ND		ND		ND	
Calcium	7440-70-2	-	1300		820		230		180	J	580	J
Chromium	7440-47-3	214	4.3		7.7		20		5.8		6.3	
Cobalt	7440-48-4	34	2.6		2.5		2.5		2.0		2.1	
Copper	7440-50-8	310	14		9.9		2.5		3.6		5.7	
Iron	7439-89-6	74767	4200		5700		4800		4000		4400	
Lead	7439-92-1	400	3.2		5.2		4.5		4.4		5.7	
Magnesium	7439-95-4	-	1300		1000		400		360		330	
Manganese	7439-96-5	2100	63		52		31		38		37	
Nickel	7440-02-0	150	4.7		5.3		10		4.6		5.4	
Potassium	7440-09-7	-	220		430		430		280		260	
Selenium	7782-49-2	39	ND		ND		ND		0.087	J	0.18	J
Silver	7440-22-4	39	ND		ND		ND		ND		ND	
Sodium	7440-23-5	-	210		140		27	J	ND		ND	
Thallium	7440-28-0	0.078	0.034	J	0.062	J	0.047	J	0.05	J	0.044	J
Zinc	7440-66-6	2300	9.1	J	13	J	21	J	8.3	J	8.0	J
Vanadium	7440-62-2	134	12		15		22		8.7		8.3	
Mercury	7439-97-6	1.1	ND		ND		ND		ND		ND	
Cyanide	57-12-5	2.3	ND		ND		ND		ND		ND	

Notes:

Method - SW846 6020B for Metals, SW 846 7471B for Mercury, and SW846 9012B for Results and DNREC screening levels (SLs) in mg/kg (milligrams per kilogram)

Q - Qualifier

J - Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value

J+ - Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value, biased high.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 4
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Inorganics - Soil

			Sample ID	GL-GP6-SS-1023	Q	GL-GP7-SS-1023	Q	GL-GP7-DS-1023	Q	GL-GP8-SS-1023	Q
			Sample Date	10/23/2023		10/24/2023		10/24/2023		10/24/2023	
			Sample Type	Field Sample		Field Sample		Field Sample		Field Sample	
Analysis Name	Cas Number	DNREC SL									
Aluminum	7429-90-5	51200	6600		17000	J	18000		18000		
Antimony	7440-36-0	3.1	0.29		0.26		ND		0.11	J	
Arsenic	7440-38-2	11	3.8		8.2		1.2		3.5		
Barium	7440-39-3	1500	59		63		20		55		
Beryllium	7440-41-7	16	0.31		0.5		0.65		0.6		
Cadmium	7440-43-9	7.1	ND		ND		ND		ND		
Calcium	7440-70-2	-	200		210		260		360		
Chromium	7440-47-3	214	7.1		16	J	15		17		
Cobalt	7440-48-4	34	2.1		3.3		1.7		3.9		
Copper	7440-50-8	310	6.7		8.7	J	2.1		7.4		
Iron	7439-89-6	74767	6500		13000		4300		11000		
Lead	7439-92-1	400	7.9		9.8		3.9		8.7		
Magnesium	7439-95-4	-	480		890	J	330		1100		
Manganese	7439-96-5	2100	100		67		26		46		
Nickel	7440-02-0	150	5.9		9.3		4.3		8.2		
Potassium	7440-09-7	-	310		780	J+	510		1000		
Selenium	7782-49-2	39	0.15	J	0.27	J	ND		0.34	J	
Silver	7440-22-4	39	ND		ND		ND		ND		
Sodium	7440-23-5	-	23	J	36	J	ND		ND		
Thallium	7440-28-0	0.078	0.099		0.13		ND		0.17		
Zinc	7440-66-6	2300	12	J	22	J	17	J	25	J	
Vanadium	7440-62-2	134	9.2		21		19		25		
Mercury	7439-97-6	1.1	ND		0.07	J	ND		0.033	J	
Cyanide	57-12-5	2.3	ND		0.33	J	ND		0.27	J	

Notes:

Method - SW846 6020B for Metals, SW 846 7471B for Mercury, and SW846 9012B for Results and DNREC screening levels (SLs) in mg/kg (milligrams per kilogram)

Q - Qualifier

J - Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value
 J+ - Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value, biased high.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 4
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Inorganics - Soil

		Sample ID	GL-GP9-SS-1023	Q	GL-GP10-SS-1023	Q	GL-GP10-DS-1023	Q	GL-DUP02-1023		GL-GP11-SS-1023	Q
		Sample Date	10/24/2023		10/24/2023		10/24/2023		10/24/2023		10/24/2023	
		Sample Type	Field Sample		Field Sample		Field Sample		Field Duplicate of GL-GP10-DS-1023		Field Sample	
Analysis Name	Cas Number	DNREC SL										
Aluminum	7429-90-5	51200	13000		12000		11000		14000		7300	
Antimony	7440-36-0	3.1	ND		0.19	J	ND		ND		0.1	J
Arsenic	7440-38-2	11	2.7		3.9		4.0		3.7		2.0	
Barium	7440-39-3	1500	61		77		15		19		47	
Beryllium	7440-41-7	16	0.59		0.7		0.32		0.5		0.21	
Cadmium	7440-43-9	7.1	ND		ND		ND		ND		ND	
Calcium	7440-70-2	-	150		210		130		160		140	
Chromium	7440-47-3	214	10		9.0		13		16		5.7	
Cobalt	7440-48-4	34	2.9		4.8		1.4		1.5		1.8	
Copper	7440-50-8	310	3.8		8.2		3.9		4.4		6.4	
Iron	7439-89-6	74767	6700		6000		5300		5800		5000	
Lead	7439-92-1	400	7.1		12		4.8		5.7		6.5	
Magnesium	7439-95-4	-	740		670		520		640		430	
Manganese	7439-96-5	2100	91		230		20		20		96	
Nickel	7440-02-0	150	6.1		12		3.8		4.6		4.7	
Potassium	7440-09-7	-	540		470		710		1000		250	
Selenium	7782-49-2	39	0.14	J	0.22	J	0.16	J	0.23	J	0.17	J
Silver	7440-22-4	39	ND		ND		ND		ND		ND	
Sodium	7440-23-5	-	ND		ND		ND		ND		ND	
Thallium	7440-28-0	0.078	0.12	J	0.12	J	0.07	J	0.087	J	0.076	J
Zinc	7440-66-6	2300	15	J	21	J	12	J	14	J	11	J
Vanadium	7440-62-2	134	16		13		18		22		8.7	
Mercury	7439-97-6	1.1	ND		ND		ND		ND		ND	
Cyanide	57-12-5	2.3	ND		ND		0.23	J	0.27	J	0.26	J

Notes:

Method - SW846 6020B for Metals, SW 846 7471B for Mercury, and SW846 9012B for

Results and DNREC screening levels (SLs) in mg/kg (milligrams per kilogram)

Q - Qualifier

J - Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value
 J+ - Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value, biased high.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 4
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Inorganics - Soil

		Sample ID	GL-GP12-SS-1023	Q	GL-GP13-SS-1023	Q	GL-GP14-SS-1023	Q	GL-GP14-DS-1023
		Sample Date	10/24/2023		10/24/2023		10/24/2023		10/24/2023
		Sample Type	Field Sample		Field Sample		Field Sample		Field Sample
Analysis Name	Cas Number	DNREC SL							
Aluminum	7429-90-5	51200	13000		12000		36000		16000
Antimony	7440-36-0	3.1	0.13	J	0.15	J	ND		ND
Arsenic	7440-38-2	11	2.7		4.5		2.0		1.4
Barium	7440-39-3	1500	87		60		69		42
Beryllium	7440-41-7	16	0.42		0.46		0.69		1.2
Cadmium	7440-43-9	7.1	ND		ND		ND		ND
Calcium	7440-70-2	-	130		280		560		570
Chromium	7440-47-3	214	9.8		8.8		22		19
Cobalt	7440-48-4	34	5.9		2.4		4.5		7.5
Copper	7440-50-8	310	4.6		6.4		13		4.4
Iron	7439-89-6	74767	7500		6700		12000		20000
Lead	7439-92-1	400	8.7		7.4		9.1		2.9
Magnesium	7439-95-4	-	830		700		1300		650
Manganese	7439-96-5	2100	130		77		64		85
Nickel	7440-02-0	150	6.5		6.7		13		14
Potassium	7440-09-7	-	490		420		930		380
Selenium	7782-49-2	39	0.23	J	0.22	J	0.21	J	ND
Silver	7440-22-4	39	ND		ND		ND		ND
Sodium	7440-23-5	-	ND		ND		39	J	59
Thallium	7440-28-0	0.078	0.11		0.097	J	0.14		ND
Zinc	7440-66-6	2300	20	J	16	J	43		37
Vanadium	7440-62-2	134	16		13		38		41
Mercury	7439-97-6	1.1	ND		ND		ND		ND
Cyanide	57-12-5	2.3	ND		0.25	J	0.31	J	ND

Notes:

Method - SW846 6020B for Metals, SW 846 7471B for Mercury, and SW846 9012B for Results and DNREC screening levels (SLs) in mg/kg (milligrams per kilogram)

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J - Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value

J+ - Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value, biased high.

ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 4
Georgetown to Lewes Rail-to-Trail:
Fisher Road to Airport Road
Inorganics - Soil

Sample ID	GL-GP15-SS-1023	Q	GL-GP16-SS-1023	Q	GL-GP17-SS-1023	Q	GL-GP17-DS-1023	Q
Sample Date	10/24/2023		10/25/2023		10/25/2023		10/25/2023	
Sample Type	Field Sample		Field Sample		Field Sample		Field Sample	
Analysis Name	Cas Number	DNREC SL						
Aluminum	7429-90-5	51200	10000		6500		23000	
Antimony	7440-36-0	3.1	0.11	J	0.55		0.22	J
Arsenic	7440-38-2	11	2.8		8.8		3.2	
Barium	7440-39-3	1500	28		30		37	
Beryllium	7440-41-7	16	0.32		0.22		0.3	
Cadmium	7440-43-9	7.1	ND		ND		ND	
Calcium	7440-70-2	-	160		530		150	
Chromium	7440-47-3	214	8.3		10		11	
Cobalt	7440-48-4	34	2.5		2.8		1.4	
Copper	7440-50-8	310	5.7		11		7.2	
Iron	7439-89-6	74767	7000		7900		4300	
Lead	7439-92-1	400	7.0		10		8.1	
Magnesium	7439-95-4	-	540		390		300	
Manganese	7439-96-5	2100	35		89		30	
Nickel	7440-02-0	150	5.3		14		5.6	
Potassium	7440-09-7	-	560		230		380	
Selenium	7782-49-2	39	0.29	J	0.22	J	0.13	J
Silver	7440-22-4	39	ND		ND		ND	
Sodium	7440-23-5	-	ND		37	J	ND	
Thallium	7440-28-0	0.078	0.096	J	0.074	J	0.074	J
Zinc	7440-66-6	2300	16	J	10	J	13	J
Vanadium	7440-62-2	134	13		9.9		15	
Mercury	7439-97-6	1.1	ND		ND		ND	
Cyanide	57-12-5	2.3	ND		ND		0.34	J

Notes:

Method - SW846 6020B for Metals, SW 846 7471B for Mercury, and SW846 9012B for Results and DNREC screening levels (SLs) in mg/kg (milligrams per kilogram)

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DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 4
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Inorganics - Soil

			Sample ID	GL-GP18-SS-1023	Q	GL-GP19-SS-1023	Q	GL-GP20-SS-1023	Q	GL-GP20-DS-1023	Q
			Sample Date	10/25/2023		10/25/2023		10/25/2023		10/25/2023	
			Sample Type	Field Sample		Field Sample		Field Sample		Field Sample	
Analysis Name	Cas Number	DNREC SL									
Aluminum	7429-90-5	51200	8400		7200		18000		14000		J
Antimony	7440-36-0	3.1	0.37		0.23		ND		ND		
Arsenic	7440-38-2	11	6.7		1.4		0.91		0.28		J
Barium	7440-39-3	1500	27		59		36		21		J
Beryllium	7440-41-7	16	0.16		0.27		0.14		0.088		J
Cadmium	7440-43-9	7.1	ND		ND		ND		ND		
Calcium	7440-70-2	-	160		130		240		80		
Chromium	7440-47-3	214	5.9		4.9		8.1		5.4		J
Cobalt	7440-48-4	34	1.2		1.0		1.9		0.32		
Copper	7440-50-8	310	9.2		3.8		2.8		0.96		
Iron	7439-89-6	74767	4000		3300		3000		840		J
Lead	7439-92-1	400	8.0		6.9		4.7		2.5		J
Magnesium	7439-95-4	-	230		330		310		86		J
Manganese	7439-96-5	2100	20		83		32		5.9		J
Nickel	7440-02-0	150	4.6		3.9		3.6		2.0		J
Potassium	7440-09-7	-	230		230		350		210		J
Selenium	7782-49-2	39	0.61		ND		ND		ND		
Silver	7440-22-4	39	ND		ND		ND		ND		
Sodium	7440-23-5	-	ND		ND		ND		ND		
Thallium	7440-28-0	0.078	0.074	J	0.062	J	ND		0.043		J
Zinc	7440-66-6	2300	6.2	J	10	J	5.8	J	ND		
Vanadium	7440-62-2	134	7.3		7.0		9.4		5.7		J
Mercury	7439-97-6	1.1	ND		ND		ND		ND		
Cyanide	57-12-5	2.3	0.36	J	0.22	J	ND		ND		

Notes:

Method - SW846 6020B for Metals, SW 846 7471B for Mercury, and SW846 9012B for Results and DNREC screening levels (SLs) in mg/kg (milligrams per kilogram)

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ND - Not Detected

DNREC SL - Department of NATURAL Resources and Environmental Control Screening Level

Shaded - Result above DNREC SL

Table 4
 Georgetown to Lewes Rail-to-Trail:
 Fisher Road to Airport Road
 Inorganics - Soil

Sample ID	GL-GP21-SS-1023	Q	GL-GP22-SS-1023	Q	GL-GP22-DS-1023	Q
Sample Date	10/25/2023		10/25/2023		10/25/2023	
Sample Type	Field Sample		Field Sample		Field Sample	
Analysis Name	Cas Number	DNREC SL				
Aluminum	7429-90-5	51200	5400		10000	11000
Antimony	7440-36-0	3.1	0.13	J	0.18	J ND
Arsenic	7440-38-2	11	1.2		2.3	0.19
Barium	7440-39-3	1500	34		44	26
Beryllium	7440-41-7	16	0.17		0.25	0.12
Cadmium	7440-43-9	7.1	0.068	J	0.29	ND
Calcium	7440-70-2	-	220		19000	140
Chromium	7440-47-3	214	4.6		11	6.0
Cobalt	7440-48-4	34	1.0		1.8	0.45
Copper	7440-50-8	310	7.0		20	0.9
Iron	7439-89-6	74767	2900		5200	920
Lead	7439-92-1	400	15		14	2.3
Magnesium	7439-95-4	-	360		1900	86
Manganese	7439-96-5	2100	50		120	9.3
Nickel	7440-02-0	150	3.2		7.1	3.8
Potassium	7440-09-7	-	260		500	190
Selenium	7782-49-2	39	ND		0.12	J ND
Silver	7440-22-4	39	ND		ND	ND
Sodium	7440-23-5	-	ND		38	J ND
Thallium	7440-28-0	0.078	0.061	J	0.1	J ND
Zinc	7440-66-6	2300	18	J	140	5.7
Vanadium	7440-62-2	134	7.3		15	5.8
Mercury	7439-97-6	1.1	0.05	J	ND	ND
Cyanide	57-12-5	2.3	ND		ND	ND

Notes:

Method - SW846 6020B for Metals, SW 846 7471B for Mercury, and SW846 9012B for

Results and DNREC screening levels (SLs) in mg/kg (milligrams per kilogram)

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TABLES

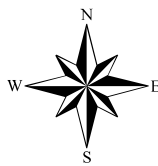
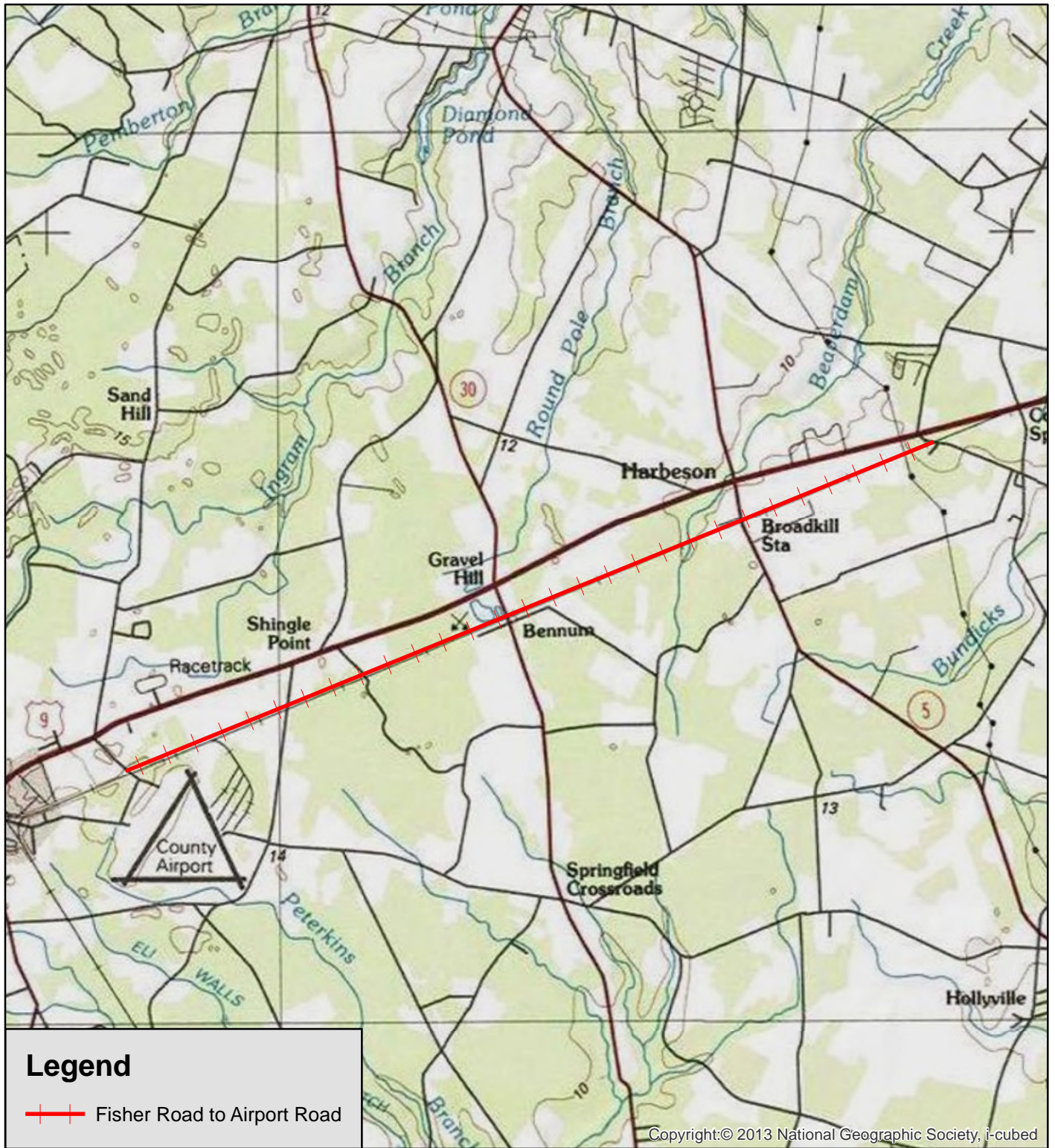



Figure 1
 Project Location Map
 DeIDOT Georgetown to Lewes Rail
 Fisher Road to Airport Road
 Georgetown, Sussex Co., Delaware
 0 1,250 5,000
 Feet
 1 inch = 5,280 feet

This map is provided by the consultant solely for display and reference purposes and is subject to change without notice. No claims, either real or assumed, as to the absolute accuracy or precision of any data contained herein are made by the consultant, nor will the consultant be held responsible for any use of this document for purposes other than which it was intended.



Legend

 Fisher Road to Airport Road

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

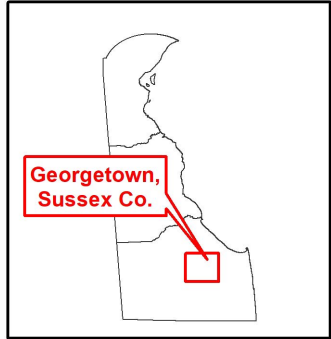
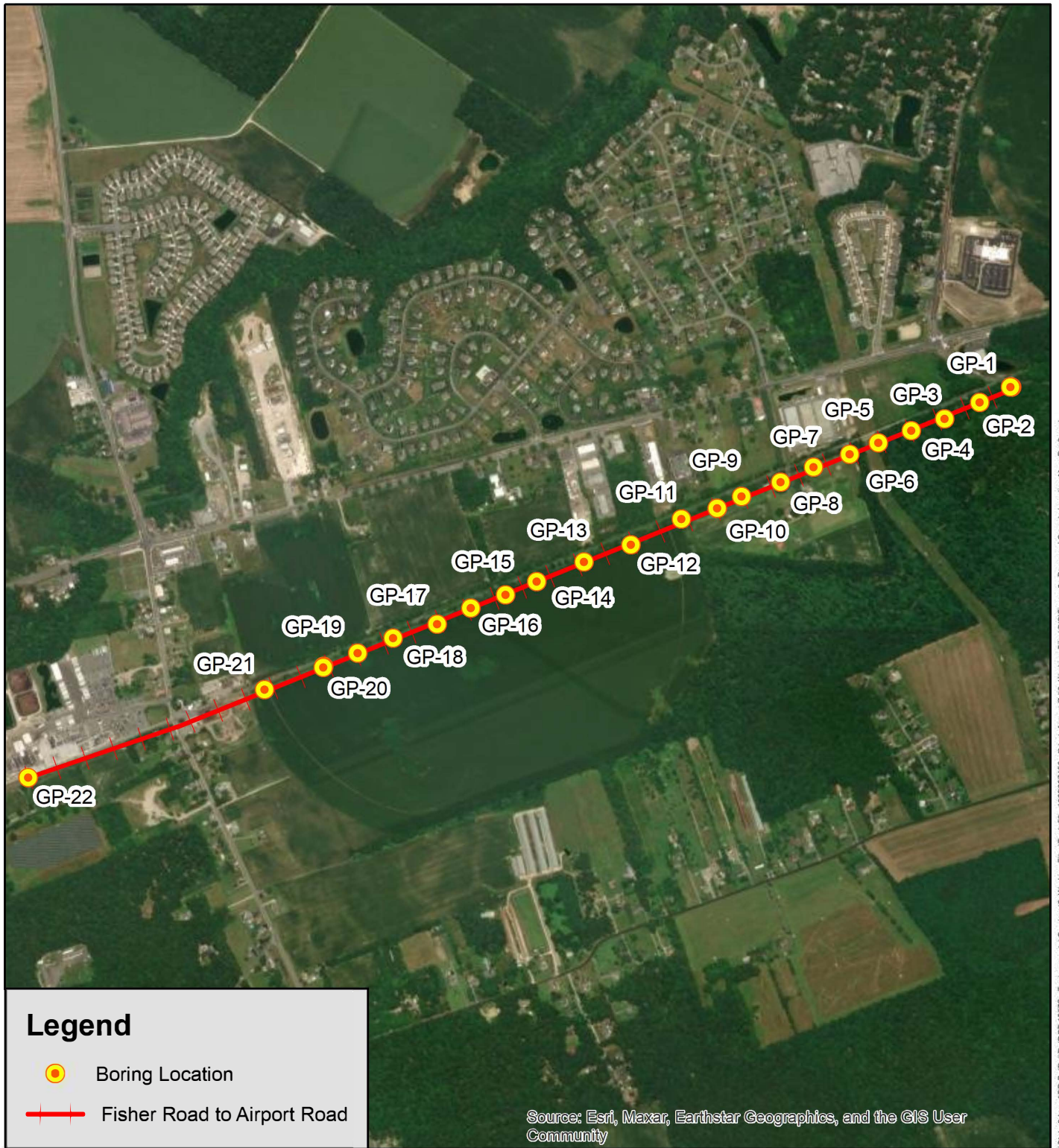


Figure 2
 Site Aerial Map
 DeIDOT Georgetown to Lewes Rail
 Fisher Road to Airport Road
 Georgetown, Sussex Co., Delaware

0 3,125 6,250 12,500 Feet

1 inch = 6,250 feet

This map is provided by the consultant solely for display and reference purposes and is subject to change without notice. No claims, either real or assumed, as to the absolute accuracy or precision of any data contained herein are made by the consultant, nor will the consultant be held responsible for any use of this document for purposes other than which it was intended.



S:\03-Projects\State & Local\DE-DeDot\DeDOT 1957F - Environmental Services\3. Working Files\Task 50 - 1032297450 - G to L Airport Rd\3. Working Files\GIS\Figure 3 - Proposed Sample Location Map_Rev3.mxd

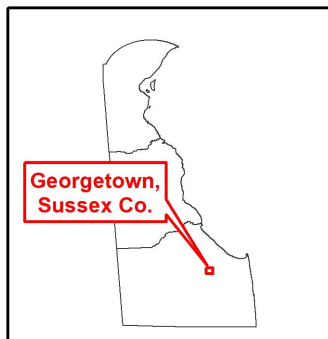
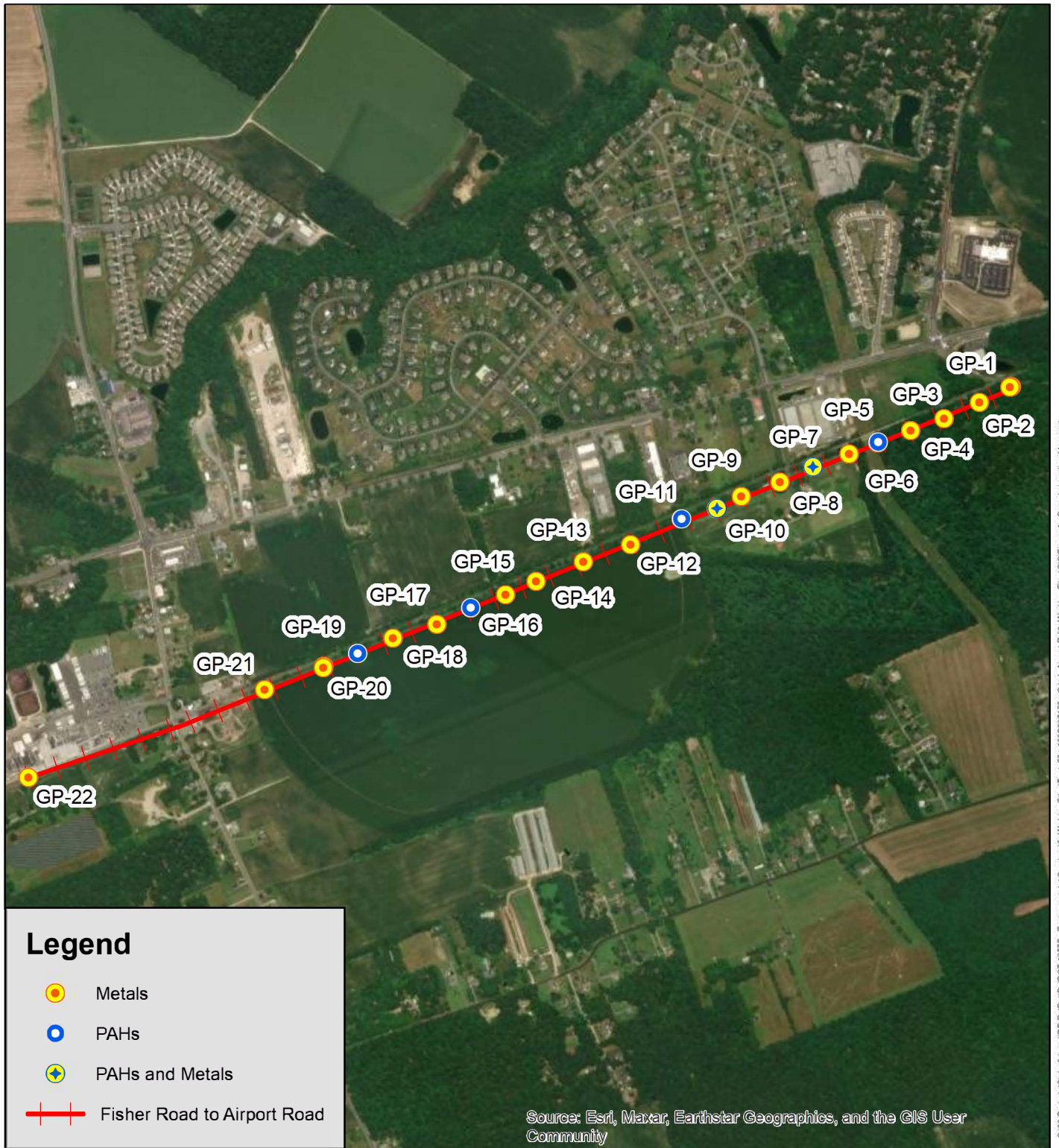


Figure 3
 Sample Location Map
 DeIDOT Georgetown to Lewes Rail
 Fisher Road to Harbeson Road
 Georgetown, Sussex Co., Delaware

0 250 500 1,000
 Feet
 1 inch = 1,250 feet

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8:\0\Projects\State & Local\DE-DeIDOT\DeIDOT 1957F - Environmental Services\Working Files\Task 50 - 036297430 - G to L\Airport Rd3\Working Files\GIS\Figure 4 - Sample Location Map.mxd

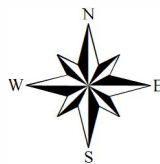
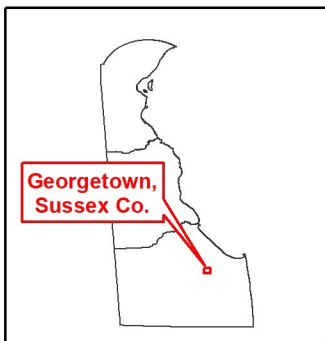


Figure 4
 Soil Contamination Map DeIDOT
 Georgetown to Lewes Rail Fisher
 Road to Harbeson Road
 Georgetown, Sussex Co., Delaware

0 250 500 1,000
 Feet
 1 inch = 1,250 feet

This map is provided by the consultant solely for display and reference purposes and is subject to change without notice. No claims, either real or assumed, as to the absolute accuracy or precision of any data contained herein are made by the consultant, nor will the consultant be held responsible for any use of this document for purposes other than which it was intended.

ATTACHMENT A

Health and Safety Plan

Site Name: DeIDOT's Georgetown to Lewes Rail-to-Trail, Fisher Road to Airport Road Project	Site Contact: TBD	Telephone: TBD												
Location: Georgetown, Sussex County, DE	Client Contact: TBD	Telephone: TBD												
EPA ID No. NA	Prepared By: The Consultant	Date Prepared: 6/25/2024												
Project No. 103S297450	Dates of Activities: Begin 9/1/2024- 9/1/2025 (HASP is not valid for periods longer than 12 months)	Emergency Response <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
Objectives: DeIDOT has entered into a Voluntary Cleanup Agreement with the Delaware Department of Natural Resources and Environmental Control's (DNREC) Site Investigation and Restoration Section (SIRS) at DeIDOT's proposed Georgetown to Lewes Rail-to-Trail, Fisher Road to Airport Road Project. The subject site is comprised of a 32,500 ft section of railroad located between Fisher Road and Airport Road in Georgetown, Delaware. A Contaminated Material Management Work Plan (CMMWP) was prepared by the consultant to establish procedures to be used to address contaminated soil that might be encountered within the project limits of the proposed Trails and Pathways Georgetown-to-Lewes Cool Spring Road to Fisher Road project in Sussex County, Delaware. The consultant will be providing environmental oversight during the construction activities.	Site Type: Check as many as applicable. <table border="0"> <tr> <td><input checked="" type="checkbox"/> Active</td> <td><input type="checkbox"/> Landfill</td> <td><input type="checkbox"/> Inner-City</td> </tr> <tr> <td><input type="checkbox"/> Inactive</td> <td><input type="checkbox"/> Railroad</td> <td><input checked="" type="checkbox"/> Rural</td> </tr> <tr> <td><input type="checkbox"/> Secured</td> <td><input checked="" type="checkbox"/> Residential</td> <td><input type="checkbox"/> Remote</td> </tr> <tr> <td><input checked="" type="checkbox"/> Unsecured</td> <td><input type="checkbox"/> Industrial</td> <td><input type="checkbox"/> Other (specify)</td> </tr> </table>		<input checked="" type="checkbox"/> Active	<input type="checkbox"/> Landfill	<input type="checkbox"/> Inner-City	<input type="checkbox"/> Inactive	<input type="checkbox"/> Railroad	<input checked="" type="checkbox"/> Rural	<input type="checkbox"/> Secured	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Remote	<input checked="" type="checkbox"/> Unsecured	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other (specify)
<input checked="" type="checkbox"/> Active	<input type="checkbox"/> Landfill	<input type="checkbox"/> Inner-City												
<input type="checkbox"/> Inactive	<input type="checkbox"/> Railroad	<input checked="" type="checkbox"/> Rural												
<input type="checkbox"/> Secured	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Remote												
<input checked="" type="checkbox"/> Unsecured	<input type="checkbox"/> Industrial	<input type="checkbox"/> Other (specify)												
Project Scope of Work and Site Background <p>The consultant will manage the transportation and off-site disposal of the contaminated soil, sediment, and other miscellaneous waste; provide health and safety oversight of all excavation activities where contaminated soil is encountered; and assist DeIDOT's Prime Contractor with any other environmental issues encountered during the site work, as directed by DeIDOT's project manager. Tasks to be performed by the consultant include the following: Monitor ambient air quality in any work excavations; Screen excavated soil for off-site disposal; Collect waste characterization samples; Subcontract a licensed waste hauler and disposal/treatment facility for transportation and off-site disposal of the contaminated soil; Prepare soil disposal paperwork/manifest.</p> <p>The consultant will be responsible for reviewing the material sources and collecting the necessary samples from the source(s) per DNREC's Soil Re-Use Policy at HSCA Sites guidance document. The soil samples will be submitted to a DNREC-certified laboratory for analysis.</p> <p>Real-time air monitoring will be conducted during any excavation or grading activities that occur within areas where black coal ash is present to monitor worker safety and downwind of the site to monitor community exposure. Particulate monitoring will be performed for arsenic and PAHs within the work zone and around the perimeter of the work areas. A maximum of four monitoring stations will be set up during any grading and excavating work at the site. The monitoring station locations will be based on wind direction as determined by the consultant's on-site environmental scientist. The general configuration of the monitoring stations will include one station upwind of the work area; one station downwind of the work area; and two stations downwind/sidewind closest to the nearest residential/commercial properties to the work area. All monitoring stations will be within the DeIDOT limits of construction for the project. The equipment selected to conduct the particulate monitoring is the DataRAM 4 or equivalent.</p>														

Health and Safety Approver Comments or Additional Instructions: The consultant will use engineering controls and safe work practices, where feasible, to reduce worker exposure. Requirements that employees observe good personal hygiene practices, such as washing hands before eating and taking a shower will be employed.

All information provided in this HASP (and any applicable attachments) have been reviewed and made site-specific by proper hazard identification and control techniques. This method of risk assessment is done in the field at the time of work being conducted. Changes to this HASP (or AHA) shall be documented and later approved by a health and safety manager.

This HASP SHALL be revised prior to each site visit as appropriate to ensure that the hazards associated with the assigned tasks have been identified and proper safety controls implemented. All information provided in this HASP (and any applicable attachments) have been reviewed and made site-specific by proper hazard identification and control techniques. This method of risk assessment is done in the field at the time of work being conducted. Changes to the scope of work will require changes to this HASP (or AHA). Those changes shall be documented and approved by a safety manager.

A HASP amendment or separate AHA must be developed for any work conducted outside of scope. Each consultant employee is only allowed to work within the scope of work described with hazards identified within our objectives.

Ensure that the entire area has been adequately surveyed and marked for ALL utilities and that no intrusive work is conducted within the margin of error of the survey. ONLY contractors (i.e. drilling) that have been pre-approved by the consultant and (if required) the client may be utilized.

Consultant employees may NOT enter open excavations. Samples, if necessary, shall be collected from spoils removed from the bottom or sidewalls by the contractor using the excavator. DO NOT walk under or hold guy wires or otherwise assist with excavation. Conduct oversight and let the contractor do their job.

Follow Working Near Heavy Equipment (SWP 5-7); keep away from heavy equipment; be aware of the swing radius of equipment; and ensure eye contact is made with the operator before approaching machinery.

Follow SWP 5-15 to control heat stress and heat-related illness. Maintain adequate supplies of cool water or dielectric fluids for 1 quart per person per hour; establish a cool, shaded break area; and establish work-rest schedules as appropriate.

Personnel not trained in the UMTCD may NOT obstruct, control or otherwise interfere with normal traffic patterns. If traffic control is required, either the local jurisdiction or a company trained in the UMTCD MUST be hired to control traffic.

Water and electricity may not be available. Have potable water on-hand for eyewash, drench, hand washing and drinking. Bring portable lighting.

Follow Safe Lifting Practices (SWP 5-19). Use proper lifting techniques, mechanical assistance or teams lifts as appropriate.

Use good chemical hygiene, including frequent hand washing followed by use of sanitary wipe; and no eating drinking or use of tobacco in the exclusion zone

Health and Safety Plan Approver Signature:

Date:

Note: A minimum of two persons with appropriate training and medical surveillance must be on site for any fieldwork subject to Level 2 HASP requirements.

Note: A detailed site sketch or figure may be included on Page 10 of 12.

Initial Isolation and Protective Action Distances (for emergency response operations only): N/A

Establishment of Work Zones; including exclusion, contamination reduction, and support zones; is required for ALL HAZWOPER projects.

ALL investigation-derived waste shall be drummed and remain onsite pending characterization for subsequent disposal.

Spill control shall be conducted in accordance with the requirements of SWP 5-14, *Spill and Discharge Control Practices*.

Wind Speed and Direction (Approach from upwind)		Temperature (°F)	Relative Humidity (%)	Probability of Precipitation (%)	Weather Forecast (such as partly cloudy, snow, etc.)
Speed (mph):	From Direction:				

On-Site Supplies: First Aid Kit Fire Extinguisher Air Horn Oral Thermometer Noise Dosimeter

Known or Anticipated Site Hazards or Concerns: (Hazards covered by existing Safe Work Practices are listed on the next page)

<input type="checkbox"/> Work on active roadway	<input checked="" type="checkbox"/> Overhead utilities	<input type="checkbox"/> Energized electrical systems
<input type="checkbox"/> Onsite laboratory	<input checked="" type="checkbox"/> Buried Utilities	<input type="checkbox"/> Portable hand tool use
<input type="checkbox"/> Explosion or fire hazard	<input type="checkbox"/> Surface or underground storage tanks	<input type="checkbox"/> Portable electrical tool use
<input type="checkbox"/> Oxygen deficiency	<input checked="" type="checkbox"/> General slips, trips, falls	<input type="checkbox"/> Machine guarding
<input type="checkbox"/> Unknown or poorly characterized chemical hazards	<input checked="" type="checkbox"/> Uneven, muddy, rugged terrain	<input type="checkbox"/> Portable fire extinguisher use
<input checked="" type="checkbox"/> Inorganic chemicals	<input type="checkbox"/> Lift (man lift, cherry picker) use	<input checked="" type="checkbox"/> Driving commercial vehicles
<input checked="" type="checkbox"/> Organic chemicals	<input type="checkbox"/> Industrial truck (forklift) use	<input checked="" type="checkbox"/> Driving personal vehicles
<input type="checkbox"/> Chemical warfare materiel	<input type="checkbox"/> Wood or metal ladder use	<input type="checkbox"/> Scientific diving operations
<input type="checkbox"/> Compressed Gas Cylinders	<input type="checkbox"/> Dangerous goods shipped by air	<input type="checkbox"/> Injury and Illness Prevention Program (California only)
<input type="checkbox"/> Asbestos	<input type="checkbox"/> Elevated work (over 6' high)	<input type="checkbox"/> Ergonomics (California only)
<input checked="" type="checkbox"/> Respirable particulates	<input checked="" type="checkbox"/> Heavy equipment use or operation	<input type="checkbox"/> Work in strip or shaft mines
<input type="checkbox"/> Respirable silica	<input checked="" type="checkbox"/> Construction work	<input type="checkbox"/> Client-specific safety requirements (attach to HASP)
<input type="checkbox"/> Blasting and explosives	<input type="checkbox"/> Excavation or trenching	<input type="checkbox"/> ATV use
<input type="checkbox"/> Non-ionizing radiation (lasers, radiofrequencies, UV)	<input type="checkbox"/> Benching, shoring, bracing	<input type="checkbox"/> Methamphetamine lab
<input type="checkbox"/> Ionizing radiation (alpha, beta, gamma, etc.)	<input type="checkbox"/> Scaffold use	<input type="checkbox"/> Working over or near water
<input checked="" type="checkbox"/> Heat stress	<input checked="" type="checkbox"/> High noise	<input type="checkbox"/> Mold
<input checked="" type="checkbox"/> Cold stress	<input type="checkbox"/> Grinding operations	<input type="checkbox"/> Other COVID 19

Explosion or Fire Potential: High Medium Low Unknown

Chemical Products the Consultant Will Use or Store On Site: (Attach a Material Safety Data Sheet [MSDS] for each item.)

- | | | | |
|--|---|--|--|
| <input type="checkbox"/> Alconox or Liquinox | <input type="checkbox"/> Calibration gas (Methane) | <input type="checkbox"/> Hydrogen gas | <input type="checkbox"/> Isopropyl alcohol |
| <input type="checkbox"/> Hydrochloric acid (HCl) | <input checked="" type="checkbox"/> Calibration gas (Isobutylene) | <input type="checkbox"/> Household bleach (NaOCl) | <input type="checkbox"/> HazCat Kit |
| <input type="checkbox"/> Nitric acid (HNO ₃) | <input type="checkbox"/> Calibration gas (Pentane) | <input type="checkbox"/> Sulfuric acid (H ₂ SO ₄) | <input type="checkbox"/> Mark I Kits (<i>number?</i>) _____ |
| <input type="checkbox"/> Sodium hydroxide (NaOH) | <input type="checkbox"/> Calibration gas (4-gas mixture) | <input type="checkbox"/> Hexane | <input checked="" type="checkbox"/> Other (<i>specify</i>) <u>Eyewash</u>
(potable water) _____ |

WARNING: Eyewash solution shall be readily available on ALL projects where corrosives (acids or bases) are used, including sample preservatives

Applicable Safety Programs and Safe Work Practices (SWP). Attach to HASP:

- DCN 2-04 Hearing Conservation Program (always checked)
- DCN 4-05 Trenching and Excavation Safety
- DCN 4-08 Asbestos Protection Program
- DCN 4-09 Haulage and Earth Moving
- DCN 4-10 Lead Protection Program
- SWP DCN 5-01 General Safe Work Practices
- SWP DCN 5-02 General Safe Work Practices HAZWOPER
- SWP DCN 5-03 Safe Work Practices for Office Employees
- SWP DCN 5-04 Safe Drilling Practices
- SWP DCN 5-05 Safe Direct Push (GeoProbe) Practices
- SWP DCN 5-06 Working Over or Near Water
- SWP DCN 5-07 Use of Heavy Equipment
- SWP DCN 5-08 Special Site Hazards (Firearms, Remote Sites, Mines, aircraft, etc.)
- SWP DCN 5-09 Safe Electrical Work Practices
- SWP DCN 5-10 Fall Protection Practices
- SWP DCN 5-11 Portable Ladder Safety
- SWP DCN 5-12 Drum and Container Handling Practices
- SWP DCN 5-13 Flammable Hazards and Ignition Sources
- SWP DCN 5-14 Spill and Discharge Control Practices (always checked)
- SWP DCN 5-15 Heat Stress
- SWP DCN 5-16 Cold Stress
- SWP DCN 5-17 Biohazards
- SWP DCN 5-18 Underground Storage Tank Removal Practices
- SWP DCN 5-19 Safe Lifting Procedures
- SWP DCN 5-22 Hydrographic Data Collection
- SWP DCN 5-24 Non-Permit-Required Confined Space Entry Practices
- SWP DCN 5-26 Prevention of Sun Exposure
- SWP DCN 5-27 Respirator Cleaning Practices
- SWP DCN 5-28 Safe Use Practices for Use of Respirators
- SWP DCN 5-35 Underground Utilities, including 5-35F, Ground Disturbance Permit
- SWP DCN 5-55 Infectious Disease Guidance

Tasks Performed At Job Site that are NOT Covered by SWPs

NOTE: Many AHA's can be found on the Health & Safety intranet site at:
<http://home.itemi.com/C18/Activity%20Hazard%20Analysis%20Docum/default.aspx>

Attach Activity Hazard Analysis (AHA) for each non-covered task

- Mobilization/Demobilization
- Observation Near Drill Rigs and Heavy Equipment
- Soil sampling
- Project Documentation and Air Monitoring

Consultant Employee Training and Medical Requirements:

Basic Training and Medical

- Initial 40 Hour Training
- 8-Hour Supervisor Training (one-time)
- Current 8-Hour Refresher Training
- Current Medical Clearance (including respirator use)
- Current First Aid Training
- Current CPR Training
- Current Respirator Fit-Test

Other Specific Training and Medical Surveillance Requirements

- Confined Space Training
- Level A Training
- Radiation Training
- OSHA 10-hour Construction Safety Training
- OSHA 30-hour Construction Safety Training
- Asbestos Awareness Training
- Asbestos B-Reader X-Ray
- Blood Lead Level and ZPP Pre, during and Post-Project
- Urinary Arsenic Level Pre and Post-Project
- Other _____
- Other _____

Materials Present or Suspected at Site	Highest Observed Concentration (specify units and sample medium)	Exposure Limit (specify ppm or mg/m ³)	IDLH Level (specify ppm or mg/m ³)	Primary Hazards of the Material (explosive, flammable, corrosive, toxic, volatile, radioactive, biohazard, oxidizer, or other)	Symptoms and Effects of Acute Exposure	Photoionization Potential (eV)
Volatile Organic Compounds (VOC's)	None Detected above laboratory quantitations during Facility Evaluation	Ca TWA 0.1 ppm ST 1 ppm	Ca [500 ppm]	Flammable	irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression; [potential occupational carcinogen]	9.24 eV
Semi-Volatile Organic Compounds (SVOC's)/polynuclear aromatic hydrocarbons (PAHs)	Soil Benzo[a]pyrene – 1.1 ppm Benzo[b]fluoranthene – 1.7 ppm	Acute- 2.5 mg/m ³ TWA- 0.1 mg/m ³	1750 mg/m ³	Flammable	irritation eyes, ulceration of nasal septum; dermatitis; gastrointestinal disturbances, peripheral neuropathy, respiratory irritation; hyperpigmentation of skin; [potential occupational carcinogen]	NA
Pesticides/PCBs	None Detected above laboratory quantitations during Facility Evaluation	REL: 0.5 mg/m ³ [skin] REL: 0.001 mg/m ³ TWA [skin] TLV: 1 mg/m ³ TWA	5 mg/m ³ , Ca	non-flammable liquid	Irritation eyes, chloracne; liver damage; reproductive effects; [potential occupational carcinogen]	None
Metals Specifically Thallium, Arsenic	None Observed – Site Not Investigated Previously	REL: 0.050 mg/m ³ TWA REL: 0.050 mg/m ³ TWA TLV: 0.050 mg/m ³ TWA	100 mg/m ³	Non-combustible solid	Lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; paralysis wrist, ankles; encephalopathy; kidney disease; irritation eyes; hypertension	None

Specify Information Sources: NIOSH Pocket Guide to Hazardous Chemicals, 2005

Note: In the Exposure Limit column, include Ceiling (C) and Short-Term Exposure Limits (STEL) if they are available. Also, use the following short forms and abbreviations to complete the table above.

A = Air
CARC = Carcinogenicity =
Electron volt
U = Unknown

IDLH = Immediately dangerous to life or health mg/m³ =
Milligram per cubic meter
NA = Not available
NE = None established

REL = Permissible exposure limit
ppm = Part per million
REL = Recommended exposure limit

REL = Permissible exposure limit
ppm = Part per million
REL = Recommended exposure limit
S = Soil
TLV = Threshold limit value

Note: If no contingency level of protection is selected, all employees covered under this plan must evacuate the immediate site area if air contaminant levels require upgrading PPE. Level A field work requires a Level 3 HASP. This information is available on the chemical hazards page of this HASP.

Field Activities Covered Under this HASP:

Task Description	Level of Protection ¹		Date of Activities
	Primary	Contingency	
1 Mobilization/Demobilization Activities	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D	Level C is NOT authorized	9/1/2024 to 9/1/2025
2 Observation Near Drill Rigs and Heavy Equipment	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D	Level C is NOT authorized	9/1/2024 to 9/1/2025
3 Soil Sampling	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D	Level C is NOT authorized	9/1/2024 to 9/1/2025
4 Project Documentation and Air Monitoring	<input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D	Level C is NOT authorized	9/1/2024 to 9/1/2025

Site Personnel and Responsibilities (include subcontractors):

Employee Name and Office Code / Location	Task(s)	Responsibilities
Chris Geiger, PG / 103 Northeast - Newark,DE	1,2,3,4	<ul style="list-style-type: none"> Project Manager: Manages the overall project, makes site safety coordinator (SSC) aware of pertinent project developments and plans, and maintains communications with client as necessary. Additionally, For projects lasting longer than one consecutive week on-site, the PM is responsible for conducting one field audit using Form AF-1.
Ava Heiss / 103 Northeast - Newark,DE	1,2,3,4	<ul style="list-style-type: none"> Field Team Leader: Directs field activities, makes site safety coordinator (SSC) aware of pertinent project developments and plans, and maintains communications with the Project Manager and the client as necessary
Ava Heiss / 103 Northeast - Newark,DE	1,2,3,4	<ul style="list-style-type: none"> Site Safety Coordinator (SSC): Ensures that appropriate personal protective equipment (PPE) is available, enforces proper use of PPE by on-site personnel and subcontractors; suspends investigative work if personnel are or may be exposed to an immediate health hazard; implements and enforces the HASP; identifies and controls site hazards when possible; communicates site hazards to all personnel; and reports any deviations observed from anticipated conditions described in the health and safety plan to the health and safety representative.
TBD	1,2,3,4	<ul style="list-style-type: none"> Alternate Site Safety Coordinator (if any)
TBD	1,2,3,4	<ul style="list-style-type: none"> Field Personnel: Completes tasks as directed by the project manager, field team leader, and SSC, and follows the HASP and all SWPs and guidelines established in the consultant's Health and Safety Manual.
Clean Earth	1,3	<ul style="list-style-type: none"> Consultant-hired subcontractor personnel on site (a subcontract SSC MUST be identified by name): Completes tasks as outlined in the project scope of work in accordance with the contract. Participates in all consultant on-site safety meetings and follows all procedures and guidelines established in this HASP, as well as the company health and safety plan and program.

NOTE: Contingency level of protection section should be completed only if the upgraded level of protection is immediately available at the job site. If no contingency level of protection is denoted, all employees covered under this HASP must evacuate the immediate site area if air contaminant levels would require an upgrade of PPE.

Protective Equipment: (Indicate type or material as necessary for each task.)

Task	Primary Level of Protection (A,B,C,D)	PPE Component Description (Primary)	Contingency Level of Protection (A, B, C, D)	PPE Component Description (Contingency)
1	D	Respirator type: Not needed Cartridge type (if applicable): CPC material: Not needed Glove material(s): NA Boot material: NA Other:	NA	Level C is NOT authorized. If monitoring results indicate or conditions warrant, evacuate the area and notify the PM and RSO immediately.
2	D	Respirator type: Not needed Cartridge type (if applicable): CPC material: Not needed Glove material(s): Nitrile, Surgical or leather work Boot material: Steel-toe Other: Safety Glasses, Hard Hat, First Aid Kit, Overboots, Portable Eyewash, >27 NRR Ear Plugs as needed, class 2 safety vest	NA	Level C is NOT authorized. If monitoring results indicate or conditions warrant, evacuate the area and notify the PM and RSO immediately.
3	D	Respirator type: Not needed Cartridge type (if applicable): CPC material: Not needed Glove material(s): Nitrile, Surgical or leather work Boot material: Steel-toe Other: Safety Glasses, Hard Hat, First Aid Kit, Overboots, Portable Eyewash, >27 NRR Ear Plugs as needed, class 2 safety vest	NA	Level C is NOT authorized. If monitoring results indicate or conditions warrant, evacuate the area and notify the PM and RSO immediately.
4	D	Respirator type: Not needed Cartridge type (if applicable): CPC material: Not needed Glove material(s): Nitrile, Surgical or leather work Boot material: Steel-toe Other: Safety Glasses, Hard Hat, First Aid Kit, Overboots, Portable Eyewash, >27 NRR Ear Plugs as needed, class 2 safety vest	NA	Level C is NOT authorized. If monitoring results indicate or conditions warrant, evacuate the area and notify the PM and RSO immediately.
5				

Respirator Notes:

Respirator cartridges may only be used for a maximum time of 8 hours or one work shift, whichever is less, and must be discarded at that time. For job sites with organic vapors, respirator cartridges may be used as described in this note as long as the concentration is less than 200 parts per million (ppm), the boiling point is greater than 70 °Celsius, and the relative humidity is less than 85 percent. If any of these levels are exceeded, a site-specific respirator cartridge change-out schedule must be developed and included in the HASP using consultant Form RP-2 (Respiratory Hazard Assessment Form)

Notes:

All levels of protection must include eye, head, and foot protection.

CPC = Chemical protective clothing

Thermoluminescent Dosimeter (TLD) Badges must be worn during all field activities on sites with radiation hazards. TLDs must be worn under CPC.

Monitoring Equipment: All monitoring equipment on site must be calibrated before and after each use and results recorded in the site logbook				
Instrument (Check all required)	Task	Instrument Reading	Action Guideline	Comments
<input type="checkbox"/> Combustible gas indicator model: NA	<input type="checkbox"/> 1	0 to 10% LEL	Monitor; evacuate if confined space	
	<input type="checkbox"/> 2	>25% LEL	Explosion hazard; interrupt task; evacuate site; notify SSC	
	<input type="checkbox"/> 3			
	<input type="checkbox"/> 4			
<input type="checkbox"/> Oxygen meter model:	<input type="checkbox"/> 1	>23.5% Oxygen	Potential fire hazard; evacuate site	
	<input type="checkbox"/> 2	23.5 to 19.5% Oxygen	Oxygen level normal	
	<input type="checkbox"/> 3	<19.5% Oxygen	Oxygen deficiency; interrupt task; evacuate site; notify SSC	
	<input type="checkbox"/> 4			
<input type="checkbox"/> Landfill gas monitor (methane)	<input type="checkbox"/> 1	0 to 2,000 ppm	Level D	Monitor continuously using MultiRAE and LGM; watch O2 and LEL
	<input type="checkbox"/> 2	> 2,000 to 5,000	Level D	Oxygen may show a marked decrease
	<input type="checkbox"/> 3	> 5,000 (10% LEL)	Evacuate and ventilate	Operations cease
	<input type="checkbox"/> 4			
<input checked="" type="checkbox"/> Photoionization detector model: <input type="checkbox"/> 11.7 eV <input checked="" type="checkbox"/> 10.6 eV <input type="checkbox"/> 10.2 eV <input type="checkbox"/> 9.8 eV <input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> 1	Any response above background to 5 ppm above background	Level C is NOT authorized	1. Use Level D PPE, 2. Obtain initial and periodic background (BG) levels, monitor source areas (such as open excavations, DPT boreholes and concrete core holes or saw cuts) using PID, 3. If PID readings above of 5 ppm or more above BG are observed at a source area, monitor worker breathing zone (BZ) areas, 4. If BZ readings exceed 3 ppm for more than 3 minutes, evacuate the area, retreat upwind to a safe area (where BG levels exist) and allow work area to ventilate to OUTDOORS using mechanical means (fans, pumps) if possible. 5. Re-approach work area while monitoring with PID. If BG levels have been regained in the BZ, resume work and continue monitoring. 6. If BZ readings remain above BG, retreat upwind and contact Health and Safety for further direction.
	<input checked="" type="checkbox"/> 2			
	<input checked="" type="checkbox"/> 3			
	<input type="checkbox"/> 4			
	<input type="checkbox"/> 5			
<input type="checkbox"/> Hydrogen Sulfide (MultiRAE)	<input type="checkbox"/> 1	>1 ppm	Level C	Continue work in Level D PPE
	<input type="checkbox"/> 2	>25 ppm	Use Level B PPE, mechanically ventilate or Stop work, evacuate area, and allow to naturally ventilate	
	<input type="checkbox"/> 3			
	<input type="checkbox"/> 4			
<input checked="" type="checkbox"/> Particulate Monitors – Hand Held Dust Trak or similar for respirable particulate PM2.5.	<input type="checkbox"/> 1	0 mg/m3 to 2.5 mg/m3	Specify: level D	
	<input type="checkbox"/> 2	>2.5 mg/m3	Implement dust control	
	<input type="checkbox"/> 3			
	<input checked="" type="checkbox"/> 4			

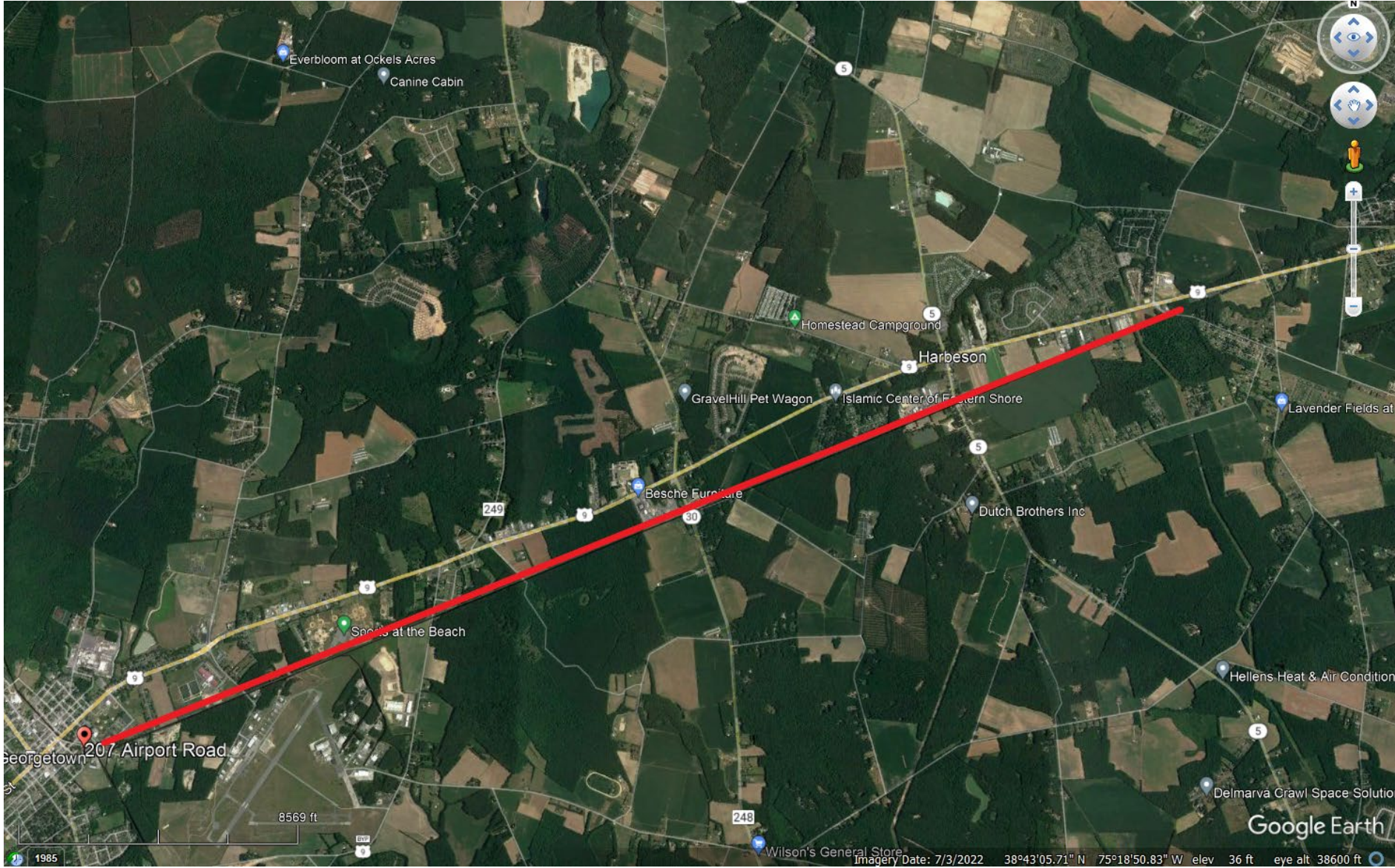
Notes:
 eV= electron volt LEL=Lower explosive limit mrem=Millirem PEL=Permissible exposure limit ppm=Part per million
 a. Level B is required when chemical hazards are present, but are uncharacterized. Level C may be acceptable for certain tasks in some situations. If you are uncertain, consult your RSO.

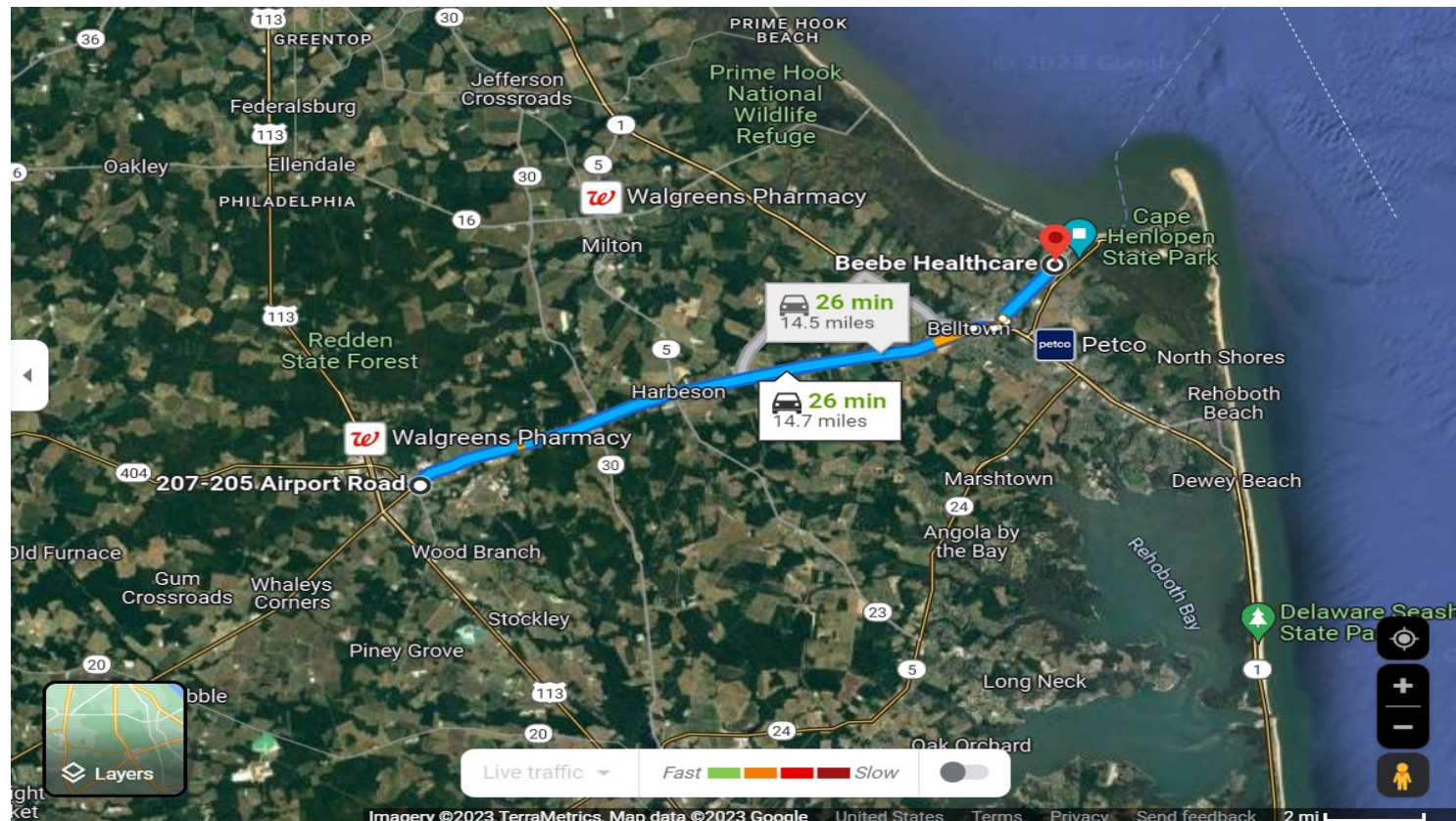
Project-Specific Industrial Hygiene Requirements	Emergency Contacts:	Telephone No.
OSHA-Regulated Chemicals*:		
<i>Check any present on the job site in any medium (air, water, soil)</i>		
<input type="checkbox"/> No chemicals below are located on the job site	WorkCare Incident Intervention	888.449.7787
<input type="checkbox"/> Friable Asbestos	Consultant EMI 24-hour Anonymous Hazard Reporting Line	866.383.8070
<input type="checkbox"/> Silica, crystalline	U.S. Coast Guard National Response Center	800.424.8802
<input type="checkbox"/> alpha-Naphthylamine	InfoTrac	800.535.5053
<input type="checkbox"/> Methyl chloromethyl ether	Poison Control	800.222.1222
<input type="checkbox"/> 3,3'-Dichlorobenzidine (and its salts)	Fire department	911
<input type="checkbox"/> bis-Chloromethyl ether	Police department	911
<input type="checkbox"/> beta-Naphthylamine	Personnel Call-Down List:	
<input type="checkbox"/> Benzidine	Job Title or Position:	Name
<input type="checkbox"/> 4-Aminodiphenyl	Regional Safety Officer	Chris Draper
<input type="checkbox"/> Ethyleneimine	Project Manager:	Chris Geiger, PG
<input type="checkbox"/> beta-Propiolactone	Field Team Leader:	Ava Heiss
<input type="checkbox"/> 2-Acetylaminoflourene	Site Safety Coordinator (SSC):	Ava Heiss
<input type="checkbox"/> 4-Dimethylaminoazobenzene		Cell Phone:
<input type="checkbox"/> N-nitrosomethylamine		615.969.1334
<input type="checkbox"/> Vinyl chloride		302.354.9084
<input checked="" type="checkbox"/> Inorganic arsenic		302.397.1105
<input type="checkbox"/> Lead		302.397.1105
<input type="checkbox"/> Chromium (VI)	Medical and Site Emergencies:	
<input type="checkbox"/> Cadmium	Signal a site or medical emergency with three blasts of a loud horn (car horn, fog horn, or similar device). Site personnel should evacuate to the area of safe refuge designated on the site map.	
<input type="checkbox"/> Benzene	Hospital Name:	Beebe Healthcare
<input type="checkbox"/> Coke oven emissions	Address:	424 Savannah Rd, Lewes, DE 19958
<input type="checkbox"/> 1,2-Dibromo-3-chloropropane	General Phone:	302.645.3300
<input type="checkbox"/> Acrylonitrile	Emergency Phone:	911
<input type="checkbox"/> Ethylene oxide	Ambulance Phone:	911
<input type="checkbox"/> Formaldehyde	Hospital called to verify emergency services are offered? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	
<input type="checkbox"/> Methylenedianiline	<ol style="list-style-type: none"> 1. Head west on Airport Road/S Railroad Ave toward E Pine St 2. Turn right onto US-9 E/E Market St 3. Turn right to stay on US-9 E 4. Turn left toward Rd 276/Marsh Rd 5. Turn left onto Wescoats Rd 6. Turn right onto US-9 BUS N/Savannah Rd 	
<input type="checkbox"/> 1,3-Butadiene	Hospital will be on the left	
<input type="checkbox"/> Methylene chloride	Total Travel Estimate: 14.7 miles - about 26 minutes	
* NOTE: Many states, including California and New Jersey, have chemical-specific worker protection requirements and standards for many chemicals and known or suspected carcinogens.		

Note: This page must be posted on site.

<p style="text-align: center;">Decontamination Procedures</p> <p>The site safety coordinator oversees implementation of project decontamination procedures and is responsible for ensuring they are effective.</p>		<p style="text-align: center;">Emergency Response Planning</p> <p>During the pre-work briefing and daily tailgate safety meetings, all on-site employees will be trained in the provisions of emergency response planning, site communication systems, and site evacuation routes.</p>
<p style="text-align: center;">Personnel Decontamination</p> <p>Level D Decon - <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry</p> <p>Level C Decon - <input type="checkbox"/> Wet <input type="checkbox"/> Dry</p> <p>Level B Decon – Briefly outline the level B decontamination methods to be used on a separate page attached to this HASP.</p> <p>Level A Decon – A Level 3 HASP is required. Notify your regional health and safety representative and health and safety director.</p> <p style="text-align: center;">Equipment Decontamination</p> <p>All tools, equipment, and machinery from the Exclusion Zone (hot) or Contamination Reduction Zone (warm) are decontaminated in the CRZ before they are removed to the Support Zone (cold). Equipment decontamination procedures are designed to minimize the potential for hazardous skin or inhalation exposure, cross-contamination, and chemical incompatibilities.</p> <p style="text-align: center;">Respirator Decontamination</p> <p>Respirators are decontaminated in compliance with SWP 5-27 and should be included with this HASP.</p> <p style="text-align: center;">Waste Handling for Decontamination</p> <p>Procedures for decontamination waste disposal meet all applicable local, state, and federal regulations.</p>	<p style="text-align: center;">Decontamination Equipment</p> <p><input type="checkbox"/> Washtubs</p> <p><input type="checkbox"/> Buckets</p> <p><input checked="" type="checkbox"/> Alcohol based hand sanitizer >60%</p> <p><input type="checkbox"/> Pressurized sprayer</p> <p><input checked="" type="checkbox"/> Hand soap and potable water</p> <p><input type="checkbox"/> Solvent [Type]</p> <p><input type="checkbox"/> Household bleach solution</p> <p>Concentration/Dilution: _____</p> <p><input type="checkbox"/> Deionized water</p> <p><input checked="" type="checkbox"/> Disposable sanitizer wipes</p> <p><input type="checkbox"/> Facemask sanitizer powder</p> <p><input type="checkbox"/> Wire brush</p> <p><input type="checkbox"/> Spray bottle</p> <p><input type="checkbox"/> Tubs / pools</p> <p><input type="checkbox"/> Banner/barrier tape</p> <p><input type="checkbox"/> Plastic sheeting</p> <p><input type="checkbox"/> Tarps and poles</p> <p><input checked="" type="checkbox"/> Trash bags</p> <p><input type="checkbox"/> Trash cans</p> <p><input type="checkbox"/> Duct tape</p> <p><input checked="" type="checkbox"/> Paper towels</p> <p><input type="checkbox"/> Folding chairs</p> <p><input type="checkbox"/> Other</p>	<p>In the event of an emergency that necessitates evacuation of a work task area or the site, the following procedures will take place.</p> <ul style="list-style-type: none"> • The consultant SSC will contact all nearby personnel using the on-site communications to advise the personnel of the emergency. • The personnel will proceed along site roads to a safe distance upwind from the hazard source. • The personnel will remain in that area until the SSC or an authorized individual provides further instructions. <p>In the event of a severe spill or a leak, site personnel will follow the procedures listed below.</p> <ul style="list-style-type: none"> • Evacuate the affected area and relocate personnel to an upwind location. • Inform the consultant SSC, a consultant office, and a site representative immediately. • Locate the source of the spill or leak, and stop the flow if it is safe to do so. • Begin containment and recovery of spilled or leaked materials. • Notify appropriate local, state, and federal agencies. <p>In the event of severe weather, site personnel will follow the procedures listed below.</p> <ul style="list-style-type: none"> • Site work shall not be conducted during severe weather, including high winds and lightning. • In the event of severe weather, stop work, lower any equipment (drill rigs) and evacuate the affected area. • Severe weather may cause heat or cold stress. Refer to SWPs 5-15 and 5-16 for information on both. <p>All personnel working on consultant projects are expected to and responsible for reporting ANY unsafe conditions, behaviors or incidents -- including injuries, illnesses, fires, spills/releases, property damages and near-misses -- they face or encounter while performing their work. According to TtEMI's reporting procedures, for non-emergency incidents you should:</p> <ul style="list-style-type: none"> • Notify WorkCare Incident Intervention at 888.449.7787 • Notify your Office, Project or Safety Manager via phone immediately. • Complete a "Consultant Incident Report" (Form IR) within 24 hours and send it to your Safety Manager. If an injury or illness has occurred, the Form IR-A must also be completed. <p>Additional reports may be necessary</p>

Site Map (May be drawn after crews arrive onsite or inserted using aerial photographs, site figures, etc.):





Driving Directions:

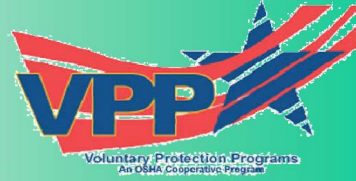
1. Head west on Airport Road/S Railroad Ave toward E Pine St
2. Turn right onto US-9 E/E Market St
3. Turn right to stay on US-9 E
4. Turn left toward Rd 276/Marsh Rd
5. Turn left onto Wescoats Rd
6. Turn right onto US-9 BUS N/Savannah Rd

Hospital will be on the left

Total Travel Estimate: 14.7 miles - about 26 minutes

Note: A dry-run should be conducted to establish a physical location associated with the map included in the HASP. Verbal verification from the hospital emergency room should also be obtained to ensure that the hospital will accept chemically contaminated patients.

VOLUNTARY PROTECTION PROGRAM



Management Leadership

Lead by example. Good managers recognize the benefits of a strong safety program and ensure that their personnel and subcontractors have the right tools, equipment, and attitude to work safely.

Some areas where effective management leadership for safety can be demonstrated include:

- Provide visible safety leadership - start meetings with a safety topic, integrate safety into planning, scheduling, and budgeting processes, take personal action to resolve safety issues.
- Become involved in incident reporting, investigation, corrective action - share lessons learned.
- Include subcontractors in your safety program and oversee their work.

Employee Involvement

Get involved! Take personal action and work directly with your supervisor daily to identify, control, or eliminate potential safety hazards.

Other ways to become involved in the safety program and improve work conditions include:

- Initiate hazard reports to identify hazards, suggest improvements, and recognize safe behaviors
- Participate in safety meetings and worksite safety inspections (daily, weekly, monthly, and quarterly)
- Participate in incident reports, investigations, corrective actions, and Lessons Learned

Worksite Analysis

The process of identifying and evaluating potential hazards is a critical element in achieving zero incidents and creating low risk and hazard-free work areas.

Worksite analysis methods used to identify and evaluate potential hazards include:

- Safety inspections (daily, weekly, monthly, and quarterly)
- Develop or review safe work procedures, AHA's, and the HASP
- Monitoring for air quality, heat stress, noise, ergonomics and other job hazards

Hazard Prevention and Control

Eliminating hazards from your job, preventing new hazards, and controlling known hazards are fundamental parts of the projects safety program.

Important points include:

- Control hazards by:
 - Installing and maintaining **Engineering Controls**
 - Following **Administrative/Work Practice Controls** (HASP, AHAs, and safe work practices)
 - Specifying and wearing **Personal Protective Equipment** where needed
- Perform integrated safety reviews for new or modified work tasks
- Consult with qualified medical and safety professionals as needed

Safety and Health Training

Effective safety training is an important element in incident prevention. Remember, if you are unfamiliar with the work or feel that you don't have the necessary training, speak up and notify your team leader or project manager.

Safety training methods that may be used at the project include:

- New employee orientation, including HASP and task-specific training
- Project meetings, daily briefings, and/or task briefings
- Lessons learned and monthly safety communications

Emergency Contacts

WorkCare - For issues requiring an Occupational Health Physician; assistance is available 24 hours per day, 7 days per week.

InfoTrac - For issues related to incidents involving the transportation of hazardous chemicals; this hotline provides accident assistance 24 hours per day, 7 days per week

U.S. Coast Guard National Response Center - For issues related to spill containment, cleanup, and damage assessment; this hotline will direct spill information to the appropriate state or region

Poison Control Center – For known or suspected poisoning.

Limitations:

The Level-Two HASP is not appropriate in some cases:

- Projects involving unexploded ordnance (UXO), radiation sources as the primary hazard, or known chemical/biological weapons site must employ the Level 3 HASP
- Projects of duration longer than 90 days may need a Level 3 HASP (consult your RSO)

Decontamination:

Decontamination Solutions for Chemical and Biological Warfare Agents^a: PPE and equipment can be decontaminated using 0.5 percent bleach (1 gallon laundry bleach to 9 gallons water) for biological agents (15 minutes of contact time for anthrax spores; 3 minutes for others) followed by water rinse for chemical and biological agents. In the absence of bleach, dry powders such as soap detergents, earth, and flour can be used. The powders should be applied and then wiped off using wet tissue paper. Finally, water and water/soap solutions can be used to physically remove or dilute chemical and biological agents. Do not use bleach solution on bare skin; use soap and water instead. Protect decontamination workers from exposure to bleach.

Decontamination for Radiological and Other Chemicals: Primary decontamination should use Alconox and water unless otherwise specified in chemical specific information resources. The effectiveness of radiation decontamination should be checked using a radiation survey instrument. Decontamination procedures should be repeated until the radiation meter reads less than 100 counts per minute over a 100-square-centimeter area when the probe is held 1 centimeter from the surface and moving slower than 2.5 centimeters per second.

Decontamination Corridor: The decontamination setup can be adjusted to meet the needs of the situation. The decontamination procedures can be altered to meet the needs of the specific situation when compound- and site-specific information is available.

Decontamination Waste: All disposable equipment, clothing, and decontamination solutions will be double-bagged or containerized in an acceptable manner and disposed of with investigation-derived waste.

Decontamination Personnel: Decontamination personnel should dress in the same level of PPE or one level below the entry team PPE level.

All investigation-derived waste should be left on site with the permission of the property owner and the EPA on-scene coordinator. In some instances, another contractor will dispose of decontamination waste and investigation-derived waste. DO NOT place waste in regular trash. DO NOT dispose of waste until proper procedures are established.

Notes:

^a Source: Jane's Information Group. 2002. *Jane's Chem-Bio Handbook*. Page 39.

DAILY TAILGATE SAFETY MEETING FORM

Date: _____ Time: _____ Project No.: _____

Client: _____ Site Location: _____

Site Activities Planned for Today: _____

Weather Conditions: _____

Safety Topics Discussed	
Protective clothing and equipment:	
Chemical and physical hazards:	
Emergency procedures:	
Equipment hazards:	
Other:	
Attendees	
Printed Name	Signature

Meeting Conducted by:

Name

Signature

HEALTH AND SAFETY PLAN AMENDMENT

Site Name: _____

Amendment Date: _____

Purpose or Reason for Amendment: _____

Required Additional Safe Work Practices or Activity Hazard Analyses: _____

Required Changes in PPE: _____

Action Level Changes: _____

AMENDMENT APPROVAL

RSO or Designee	_____	_____	_____
	Name	Signature	Date

Site Safety Coordinator	_____	_____	_____
	Name	Signature	Date

Date presented during daily site safety meeting: _____

**FIELD AUDIT
CHECKLIST**

Project Name: _____ Project No.: _____

Field Location: _____ Completed by: _____

Project Manager: _____ Site Safety Coordinator: _____

General Items		In Compliance?		
Health and Safety Plan Requirements		Yes	No	NA
1	Approved health and safety plan (HASP) on site or available			
2	Names of on-site personnel recorded in field logbook or daily log			
3	HASP compliance agreement form signed by all on-site personnel			
4	Material Safety Data Sheets on site or available			
5	Designated site safety coordinator physically present on jobsite			
6	Daily tailgate safety meetings conducted and documented on Form HST-2			
7	Documentation available proving compliance with HASP requirements for medical examinations, fit testing, and training (including subcontractors)			
8	HASP onsite matches scope of work being conducted			
9	Emergency evacuation plan in place and hospital located			
10	Exclusion, decontamination, and support zones delineated and enforced			
11	HASP attachments present onsite (VPP sheet, audit checklist, AHA, etc.)			
12	Illness and injury prevention program reports completed (California only)			
Emergency Planning				
13	Emergency telephone numbers posted			
14	Emergency route to hospital posted			
15	Local emergency providers notified of site activities			
16	Adequate safety equipment inventory available			
17	First aid provider and supplies available			
18	Eyewash solution available when corrosive chemicals are present			
Air Monitoring				
19	Monitoring equipment specified in HASP available and in working order			
20	Monitoring equipment calibrated and calibration records available			
21	Personnel know how to operate monitoring equipment and equipment manuals available on site			
22	Environmental and personnel monitoring performed as specified in HASP			

Safety Items		In Compliance?		
		Yes	No	NA
Personal Protection				
23	Splash suit, if required			
24	Chemical protective clothing, if required			
25	Safety glasses or goggles (always required)			
26	Gloves, if required			
27	Overboots, if required			
28	Hard hat (always required)			
29	High visibility vest, if required			
30	Hearing protection, if required			
31	Full-face respirator, if required			
Instrumentation				
32	Combustible gas meter and calibration notes			
33	Oxygen meter and calibration notes			
34	Organic vapor analyzer and calibration notes			
Supplies				
35	Decontamination equipment and supplies			
35	Fire extinguishers			
37	Spill cleanup supplies			
Corrective Action Taken During Audit:				

Note: NA = Not applicable

Auditor's Signature

Site Safety Coordinator's Signature

Date

ACTIVITY HAZARD ANALYSIS (AHA)

Mobilization/Demobilization

Task Description

This Activity Hazard Analysis (AHA) applies to the task listed above. It has been developed and approved by the Director of Health and Safety for the consultant. The AHA contains potential hazards posed by each major step in this task, lists procedures to control hazards, and presents required equipment (including safety equipment), inspections, and training. The hazard controls listed below are specific to this task.

Hazards

Actions

Task Steps

Potential Hazards

Critical Safety Procedures and Controls

Receiving chemicals on site	1) Chemical Hazards	<p>1) Chemical Hazards - The onsite Hazard Communication Program (Section 5.0 Tt Health and Safety Guidance Manual) will be instituted</p> <ul style="list-style-type: none"> - Create and maintain an accurate Chemical Inventory List (entries will match chemicals brought on-site, as the names appear on the MSDS and the label). - MSDS's will be maintained in a central location, accessible to all personnel. - All containers will have labels specifying the following information: <ul style="list-style-type: none"> a) Chemical Identity (as it appears on the label, MSDS, and Chemical Inventory List) b) Appropriate Warning (i.e., Eye and skin irritation, flammable, etc.) c) Manufacturer's Name Address and Phone Number <p>It is the responsibility of the FOL and/or the SSC's to ensure this is completed.</p> <p>When handling chemicals use the PPE listed in the MSDS(s).</p>
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Equipment procurement and preparation Site Preparation a. Utility clearances b. Site traffic patterns c. Construct decon and IDW storage areas	2) Lifting 3) Cuts/Lacerations 4) Pinches/Compressions	<p>2) Lifting (strain/muscle pulls)</p> <ul style="list-style-type: none"> - Where possible, use machinery or multiple personnel for heavy lifts, use proper lifting techniques described in Section 4.4 of the Health and Safety Guidance Manual (HSGM). Remember your muscles are most vulnerable during the first 30-minutes of work (stretch before you start) and then later in the day when fatigue sets in (increase break frequencies as needed) later in the day. <p>3) Cuts/Lacerations</p> <ul style="list-style-type: none"> - Inspect all cutting equipment to be used for defects. - When cutting items - always use a sharp knife and always cut away from your body. - Do not place items to be cut in your opposite hand or on your knee. - Where possible wear cut resistant gloves or a glove at least on your non-knife hand. <p>4) Pinches/Compressions/Struck by/Heavy Equipment Hazards</p> <ul style="list-style-type: none"> - Keep any machine guarding in place. - Use tools or equipment, to avoid contacting or placing yourself within areas vulnerable to pinch or compression points.
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	<p>5) Slips/Trips/Falls</p> <p>6) Traffic Hazards</p>	<ul style="list-style-type: none"> - Ensure moving and rotating parts are adequately guarded to avoid contacting parts. - Adjust guarding to minimize distance between guards and point of operation. - All equipment will undergo a thorough equipment inspection. See Equipment Inspection Checklist provided in this Safe Work Packet. - Inspect all hand tools (handle condition, cutting attachment, as applicable) to ensure acceptable condition. <p>5) Slips, trips, and falls</p> <ul style="list-style-type: none"> - Remove/identify trip hazards from the work area. - Maintain good housekeeping within the work area. - Steel toed work shoes should be equipped with an adequate lug to support traction over a number of terrain types. <p>6) Vehicular and foot traffic - Traffic and equipment considerations are to include the following:</p> <ul style="list-style-type: none"> - The FOL and/or the SSC as a precautionary measure to remove or demarcate physical hazards shall preview traffic routes (foot and vehicular) before the commitment of personnel and resources. - During set up, persons working along traffic patterns shall wear High Visibility Vests to increase visual recognition. <p>If altering or working within traffic patterns use physical barricades and flag persons to control traffic and site personnel.</p>
<p><u>Equipment to be Used</u></p> <ul style="list-style-type: none"> • Level D PPE (steel-toed boots, safety glasses, nitrile gloves) • Reflective safety vest if in areas of vehicle traffic 	<p><u>Inspection Requirements</u></p> <ul style="list-style-type: none"> • PPE prior to use • Subcontractor MUST inspect excavator prior to operation 	<p><u>Training Requirements</u></p> <ul style="list-style-type: none"> - 29 CFR 1910.120 (e) Site Specific Training - Safe Work Practice Review/Tail Gate Meeting Attendance

ACTIVITY HAZARD ANALYSIS (AHA)

Observation Near Drill Rigs and Heavy Equipment

Task Description

This Activity Hazard Analysis (AHA) applies to collection of grab groundwater samples. It has been developed and approved by the Health and Safety Department. The AHA identifies potential hazards posed by each major step in this task, lists procedures to control hazards, and presents required safety equipment, inspections, and training.

Hazards

Actions

<u>Task Steps</u> Observe Near Drill Rigs and Heavy Equipment	<u>Potential Hazards</u> SLIP/TRIP/FALL BACK STRAIN/SPRAIN NOISE HAZARD EMPLOYEE EXPOSURE STRUCK BY INCIDENTS WORKING OVER/NEAR WATER	<u>Critical Safety Procedures and Controls</u> <ul style="list-style-type: none">• Visually inspect the area for slippery spots or debris and correct if found• Wear steel-toed, non-skid boots in accordance with the consultant EMI policy• Use proper lifting techniques (lift with legs not back)• Wear hearing protection at all times near operating equipment• No loose-fitting clothing; wear hardhat, safety glasses, high-visibility (Class II) vest/shirt and nitrile gloves; upgrade to Level C IAW HASP requirements• Ensure communication with the operator prior to approaching equipment; ensure the operator is aware of your position at all times; stay out of the swing radius or operational area• Personal floatation device shall be worn at all times within 15' of water that is >3' deep or swiftly moving
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- Equipment to be Used**
- Specified PPE
 - Air monitoring equipment IAW site HASP
 - First aid kit & eye wash
 - Personal floatation device

- Inspection Requirements**
- PPE prior to use
 - Inspect and calibrate any monitoring equipment
 - Subcontractor MUST inspect drill/equipment prior to operation

- Training Requirements**
- As specified in site HASP

ACTIVITY HAZARD ANALYSIS (AHA)

Soil Sampling (Augering)

Task Description

This Activity Hazard Analysis (AHA) applies to collection of grab soil samples. It has been developed and approved by the Health & Safety Department. The AHA contains potential hazards posed by each major step in this task, lists appropriate controls, and presents required safety equipment, inspections, and training.

Overall Job Risk Assessment code (RAC)

Low

Hazards		Actions	
Task Steps	Potential Hazards	Critical Safety Procedures and Controls	Risk Assessment Code (RAC)
Set up equipment at sampling location	SLIP/TRIP/FALL BACK STRAIN/SPRAIN	<ul style="list-style-type: none"> • Visually inspect the area for slippery spots or debris and correct if found • Wear steel-toed, non-skid boots in accordance with the consultant EMI policy • Get help! Follow Safe Lifting Practices (SWP 5-19), use proper lifting techniques (lift with legs not back) 	Low
Dig to appropriate depth with appropriate tools NOTE: Employees may NOT enter open excavations to retrieve soil samples. Samples MUST be collected from excavator buckets or by other remote means.	EXPOSURE TO CHEMICALS OF CONCERN SLIP/TRIP/FALL BACK STRAIN/SPRAIN HAND INJURY HEAVY EQUIPMENT HIGH NOISE	<ul style="list-style-type: none"> • In accordance with DCN 2-1, Hazard Communication Program, brief all personnel on chemicals of concern and those used onsite, including signs and symptoms of exposure, protective measures, and emergency response • Wear steel-toed, non-skid boots in accordance with the consultant EMI policy • Use proper digging techniques. Use care if resistance is encountered. Do not strain or overexert to advance the shovel. Consider a different sampling location is possible. • If using a hand-auger. Use care if resistance is encountered. Do not strain to turn and advance the auger. Consider a different sampling location is possible. • Wear gloves when digging or hand-auguring • Wear Class 2 high-visibility vests at all times • Follow Working Near Heavy Equipment (SWP 5-7); keep away from heavy equipment; be aware of the swing radius of equipment; and ensure eye contact is made with the operator before approaching machinery • Follow Hearing Conservation Program (DCN 2-4); wear hearing 	Low

		protection in areas >85 dB; use rule of thumb and wear hearing protection whenever you have to raise your voice to be heard and understood from 2 feet away;	
Extract Soil	EMPLOYEE EXPOSURE	<ul style="list-style-type: none"> In accordance with DCN 2-1, Hazard Communication Program, brief all personnel on chemicals of concern and those used onsite, including signs and symptoms of exposure, protective measures, and emergency response Wear safety glasses and nitrile gloves Emergency eyewash is required when sampling corrosive materials or using corrosive preservatives Plastic sheeting can be used to kneel upon while collecting samples 	Low
Fill sample bottles with sample material, load coolers and IDW (if appropriate) into vehicle	LACERATION	<ul style="list-style-type: none"> Handle all glass containers carefully Have a first aid kit on-site available for small cuts Dispose of all broken shards immediately 	Low
Store sample containers in coolers and load onto vehicles	SLIP/TRIP/FALL BACK STRAIN/SPRAIN	<ul style="list-style-type: none"> Ensure all debris has been removed from the path of travel Get help! Follow Safe Lifting Practices (SWP 5-19), use proper lifting techniques (lift with legs not back) 	Low
<u>Equipment to be Used</u> <ul style="list-style-type: none"> Level D PPE (steel-toed boots, safety glasses, nitrile gloves) Class 2 safety vest if in areas of vehicle traffic or heavy equipment operation First Aid Kit Eyewash Disposable scoop Hand Auger Shovel Appropriate bottle ware and preservative 	<u>Inspection Requirements</u> <ul style="list-style-type: none"> Inspect area prior to sampling Conduct utility locating and marking as required prior to intrusive activities 	<u>Training Requirements</u> <ul style="list-style-type: none"> Safe Lifting Procedures Hearing Conservation Personal Protective Equipment Hazardous Waste Operations and Emergency Response (40-hour and current 8-hour update) CPR/First Aid (one employee on-site must have current CPR/First Aid training) As required in accordance with policy and/or sampling and analysis plan	

ACTIVITY HAZARD ANALYSIS (AHA)

Project Documentation and Air Monitoring

Task Description

This Activity Hazard Analysis (AHA) applies to the task listed above. It has been developed and approved by the Director of Health and Safety for the consultant EMI. The AHA contains potential hazards posed by each major step in this task, lists procedures to control hazards, and presents required equipment (including safety equipment), inspections, and training. The hazard controls listed below are specific to this task.

Hazards		Actions
Task Steps	Potential Hazards	Critical Safety Procedures and Controls
Conduct visual walk-around of facility to document site activities	Chemical hazards (VOCs, hydrogen sulfide, carbon monoxide, LEL, etc.) Heavy lifting Slips/trips/falls Minor cuts, or abrasions Insect bites	<ul style="list-style-type: none"> • AVOID entering the exclusion zone unless directed or it is absolutely necessary to perform required duties. • Maintain contact with air monitoring control base to ensure zones to be entered are not indicating hazardous atmosphere. • If data at the time of the maintenance indicates that neither Level B nor C PPE is warranted, APRs equipped with GME P100 organic vapor/acid gas cartridges SHALL be carried with personnel throughout maintenance activity in the event they are needed to don for emergency escape purposes. • Ensure that APR is appropriate size, in working condition and has appropriate cartridges in place. • Ensure that the entry team has a fully-calibrated and properly functioning MultiRAE or similar 5-gas monitor for use during the entry. • Ensure all other PPE required is utilized (i.e. gloves, steel toed boots, etc.). • Use a wagon, dolly, or similar conveyance to aid with heavy lifting if possible. Otherwise, use a team lift. • Ensure clear path of travel, good grasp on object, perform "test lift" to gauge ability to safely make the lift. • Lift with legs, obtain help to lift large, bulky, or heavy items. • Clear debris, limbs, boards, bricks, etc. from the path of travel. • Practice good housekeeping to keep the ground around the Drill/DPT site clear of

	<p>Inclement weather</p> <p>High noise</p> <p>Struck By Equipment/Vehicle</p>	<p>obstructions, equipment and other tripping hazards.</p> <ul style="list-style-type: none"> • Wear appropriate foot protection to prevent slips and trips. Use caution when working on uneven and wet ground surfaces. • When handling equipment and tools wear cut-resistant gloves when handling items with sharp or rough edges. • Shake out boots before donning. • Use insect repellants (products containing DEET should be applied to exposed skin, products containing Permethrin should be applied to clothing only. Follow manufacturer’s recommendations for application). • Tape up pants leg to work boot joints with duct tape. Wear light-colored clothing to better see and remove any insects. Perform close body inspections at least daily upon leaving the site. • The FOL and/or the SSC will temporarily suspend outside activities in the event of electrical storms or high winds. • It is preferred that supported systems such as lightning detection devices or emergency weather broadcasts are employed. • However, when this is not possible field personnel should use the 30/30 Rule: “If there is less than 30 seconds between thunder and lightning go inside and stay inside for at least 30 minutes after the last thunder.” • Personnel are to wear hearing protection if noise levels are such that they must raise their voice in order to communicate with someone who is within arm’s reach (approx. 2’) of them. • SSC responsible for determining and designating when hearing protection is required. • Hearing protection is to consist of either ear muffs or ear plugs that have an NRR of at least 25 dB. • Communicate with equipment operator and crew; ensure the operator is aware of your position at all times; stay out of the equipment swing radius • Wear safety vest, hard hat, and steel-toed boots along with HASP specified PPE. • Be aware of surroundings when entering operation area.
<u>Equipment to be Used</u>	<u>Inspection Requirements</u>	<u>Training Requirements</u>

<ul style="list-style-type: none"> • Radios • Phillipshead Screwdriver, wrenches and other hand tools as necessary • PPE and respirator protection based on current monitoring readings • APRs equipped with GME P100 organic vapor/acid gas cartridges • Wagon, dolly or similar if possible • Calibration gases and regulators • Outdoor rated GFCI extension cords • Hearing protection • Hardhat • Steel-toed boots (with covers is appropriate) • High-visibility Safety Vest • Cut-resistant gloves • Duct tape • Logbook • Instrument calibration records • Insect spray/sunscreen 	<ul style="list-style-type: none"> • Hand tools • PPE • Respiratory equipment • Calibrate monitors • Extension cords • Marine batteries 	<ul style="list-style-type: none"> • 40-Hour HAZWOPER • Current 8-Hour Refresher • Hazard Communication • Hearing Conservation • Respiratory Protection • PPE • Current Medical Surveillance, including respiratory questionnaire • Qualitative Respirator Fit Test (quantitative preferred)
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