ENVIRONMENTAL STANDARDS

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PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

SPEEDWAY BUSINESS PARK ADDITION

1496/1500 SPEEDWAY AVENUE

FAIRMONT, MARION COUNTY, WEST VIRGINIA

BROWNFIELDS ASSESSMENT GRANT NUMBER BF-963604-01-0

ACRES NUMBER 242581

OCTOBER 2020

Prepared for:

CITY OF FAIRMONT
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Submitted to:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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Prepared by:

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Project No. 20198730

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ENVIRONMENTAL STANDARDS

Setting the Standards for Innovative Environmental Solutions

October 16, 2020

Mr. Alexander Petry
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Ms. Patricia Corbett, Project Officer
Brownfields & Land Revitalization
U.S. EPA, Region 3
1650 Arch Street
Philadelphia, PA 19103

Subject: **Phase II Environmental Site Assessment Report**
Speedway Business Park Addition
1496/1500 Speedway Avenue
Fairmont, Marion County, West Virginia
ACRES number 242581

Dear Ms. Corbett and Mr. Petry:

Enclosed is the Phase II Environmental Site Assessment Report (ESA) for the Speedway Business Park Addition property, prepared under grant number BF-963604-01-0.

The Phase II ESA resulted in confirmed impacts on the Site. Environmental Standards, Inc. recommends that the Site be further assessed and remediated under the West Virginia Voluntary Remediation Program.

We appreciate your assistance on this project. If you have any questions or need additional information, please feel free to contact us.

Sincerely,

Leah D. Mistick
Project Geoscientist

Sincerely,

Lydia M. Work, LRS
Principal Chemist

LDM/LMW:cg

Encl.
cc: Mr. Tom Laurita, Merit Development, Inc. – .pdf via email

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ACRONYM GLOSSARY

AST	Aboveground Storage Tank
bgs	Below Ground Surface
CAS	Chemical Abstracts Service
CoC	Chain-of-Custody
COC	Certificate of Completion
COPC	Contaminant of Potential Concern
CSM	Conceptual Site Model
CSR	Code of State Regulations
DI	Deionized
DOT	Department of Transportation
DQO	Data Quality Objectives
ESA	Environmental Site Assessment
FAMSL	Feet Above Mean Sea Level
FOM	Field Operations Manager
FSP	Field Sampling Plan
GPR	Ground Penetrating Radar
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operation and Emergency Response
H&S	Health and Safety
HSO	Health and Safety Officer
IDW	Investigation-Derived Waste
LRS	Licensed Remediation Specialist
MS/MSD	Matrix Spike/Matrix Spike Duplicate
OWS	Oil-Water Separator
PAH	Polycyclic Aromatic Hydrocarbon
PID	Photoionization Detector
PM	Project Manager
PPE	Personal Protective Equipment
PQL	Project Quantitation Limit
QAPP	Quality Assurance Project Plan
QA	Quality Assurance
QAO	Quality Assurance Officer
QC	Quality Control
RBC	Risk-Based Concentration
RL	Reporting Limit
SAP	Sampling and Analysis Plan
SOP	Standard Operating Procedure
SPLP	Synthetic Precipitation Leaching Procedure
SVOC	Semivolatile Organic Compound
US EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound
VRP	Voluntary Remediation Program
VRRA	West Virginia Voluntary Remediation and Redevelopment Act
WVDEP	West Virginia Department of Environmental Protection

1.0 INTRODUCTION

The City of Fairmont (the City) received a $200,000 United Stated Environmental Protection Agency (US EPA) Brownfields Assessment Grant, BF-963604-01-0, to complete a community-wide assessment, including the completion of Phase II environmental site assessments (ESAs). The City submitted a Property Approval Questionnaire to the US EPA initially to perform a Phase I ESA at 1496/1500 Speedway Avenue, known as the Speedway Business Park Addition property (the Property or Site). The Site was determined to be eligible for funding on January 3, 2020. The Property was subsequently approved for use of additional grant funds to complete a Phase II ESA on June 26, 2020. The Property has Assessment, Cleanup and Redevelopment Exchange System (ACRES) site designation number 242581.

The City contracted with Environmental Standards, Inc. (Environmental Standards) to support them through the brownfield assessment grant process. Ms. Lydia Work, Environmental Standards Principal Chemist, is the West Virginia Licensed Remediation Specialist (LRS) for the Site. She holds LRS certification number 148.

Environmental Standards completed a Phase I ESA at the Property in March 2020. Three recognized environmental conditions (RECs) were identified and are summarized as follows:

- The Property and immediately adjacent properties to the west and south have been used for industrial and commercial activities for over 100 years.

- Multiple former occupants of the Property, including Owens Illinois, Inc., Cobre Tire, and BST, Inc. were identified as generators of hazardous waste including ignitable waste, corrosive waste, reactive waste, and a variety of heavy metals and volatile organic compounds (VOCs), including chlorinated solvents.

- Speedway Exxon, at 1399 Speedway Avenue, is located approximately 100 feet southeast of the Property. Review of regulatory records indicated that eight petroleum underground storage tanks (USTs) were registered to the location in April 1986; all eight tanks were “out of use” at the time of registration. Closure documentation, including soil and groundwater testing, was not included in the regulatory file. Speedway Exxon is estimated to be upgradient of the Site, and therefore, spills or leaks from the USTs formerly in use at the facility could potentially impact soil and/or groundwater quality at the subject Property.

The Property is intended to be redeveloped to expand the already established Speedway Business Park. The approximate 8.27-acre Property is a portion of the larger industrial complex formerly operated by Owens Illinois Glass Company (OIGC). OIGC’s Plant #3 operated on the Site from approximately 1912 until 1983. The Site was historically used by OIGC for warehousing of materials. Since then, Property occupants have included: Best One Tire; Cobre Tire; BST, Inc.; Orgama, Ltd.; Tri-State Express, Inc.; and B&L Trucking, Inc. The Property is currently used as a heavy equipment and truck tire repair facility. Based the findings of the Phase I ESA, a Phase II ESA was recommended.

The Property is comprised of six tax parcels (24-06-0008-0145-0002, 24-06-0008-0145-0001, 24-06-0008-0049-0003, 24-06-0008-0049-0002, 24-06-0008-0049-0001, and 24-05-0002-0099-0000) previously owned by Robert H. Thompson (RHT Realty, Inc). Mr. Thompson performed demolition of several structures on

the Property. The Speedway Business Park developer and current owner, Merit Development, Inc., has committed funds to remediate and redevelop the Property. The current owner has allowed access for assessment and remedial activities.

A Phase II ESA Sampling and Analysis Plan (SAP) was submitted to US EPA and approved for implementation on July 31, 2020. The objective of the work proposed in the SAP was to collect information about soils and groundwater at the Site such that a determination could be made if the RECs identified during the Phase I ESA are in fact RECs at the Site. The data generated can be used to determine whether additional investigations are warranted and what remedial actions, if any, are warranted. The work was completed in August 2020.

Environmental Standards has prepared this Phase II ESA Report for the City and the US EPA. The Phase II ESA Report summarizes the Phase II ESA activities and the results of the laboratory analysis of samples collected during the 2020 Phase II ESA field activities.

2.0 SITE INFORMATION

2.1 Site Location

The Speedway Business Park Addition Site is located within the City of Fairmont, Marion County, West Virginia, at a physical address of 1496/1500 Speedway Avenue. The location of the Property is depicted in Figure 1, Topographic Map and in Figure 2, Site Location, Aerial Photograph. The size of the Property is approximately 8.27 acres and is bordered by former industrial property to the south, Speedway Avenue to the east, former industrial and former railroad properties to the west, and former industrial property to the north.

2.2 Site Description

Access to the Property is provided by two drive areas extending west from Speedway Avenue. The rear of the Property is accessible from Glass Avenue (*a.k.a.*, Hess Court and Factory Street). The Property is comprised of six contiguous parcels.

Municipality	City of Fairmont
County	Marion
Parcel IDs	1) Parcel 145-2, of Map 8, District 6 2) Parcel 145-1, of Map 8, District 6 3) Parcel 49-3, of Map 8, District 6 4) Parcel 49-2, of Map 8, District 6 5) Parcel 49-1, of Map 8, District 6 6) Parcel 99, of Map 2, District 5
Lot Size	Approximately 8.27 acres (combined)
Property Owner	Merit Development, Inc.
# of Buildings	Four (connected)
Additional Improvements and Site Features	Electric, water, gas, sewer, telephone, pavement. Former concrete building pads and loading dock are present on the southern portion of the Property.

Four buildings are present, comprising approximately 39,900 square feet of interior building space. The buildings are summarized below:

Building #1	*Building #1 is a portable modular office. A small wooden breezeway connects Building #1 to Building #2.*
Area	960 square feet
Basement	No
Year Built	Unknown (on site since approximately 2010)
Elevator(s)	No
# of Tenants	1
Tenants	Offices for Best One Tire & Service

Building #2	*Building #2 is a steel-frame and concrete-block warehouse structure with metal siding and red brick exterior walls. The building is located on a poured-concrete slab and has a flat roof.*
Area	11,375 square feet
Basement	No
Year Built	1964 (Marion County property records)
Elevator(s)	No
# of Tenants	1
Tenants	Best One Tire & Service

Building #3	*Building #3 is a single-story, wood joist and beam building with red brick exterior walls. The western portion of the building is comprised of a covered loading dock.*
Area	12,500 square feet (including covered loading dock)
Basement	No
Year Built	1925 (Marion County property records)
Elevator(s)	No
# of Tenants	1
Tenants	Best One Tire & Service

Building #4	*Building #4 is a single-story, wood joist and beam building with red brick exterior walls. Building #4 is positioned on an elevated stone foundation. A loading dock is present on the northern end of Building #4.*
Area	16,650 square feet.
Basement	No
Year Built	1925 (Marion County property records)
Elevator(s)	No
# of Tenants	1
Tenants	Unknown/None

The southern portion of the Property has been used by a cardboard recycling tenant to store bundled cardboard. The cardboard has been stored on a concrete pad. Large heavy machinery and truck tires (new and used) have been stored throughout the Property and tire rims are stored near the exterior of Building #2.

A metal frame canopy and storage shed are located southeast of Building #2. The canopy is used to store plastic totes containing tire ballast fluid.

An oil-water separator (OWS) is located near the southwest corner of Building #2 and receives stormwater from a concrete trench drain located immediately south of Building #2. The OWS discharges to the municipal storm sewer system.

2.3 Historical Use of the Site

Known historical use of the Property dates to at least 1910. OIGC opened Plant #3 in Fairmont in November 1910, as the Owens Bottle Works. The factory was built on 40 acres on the east

side of Fairmont, a portion of which included the subject Property. The plant had six furnaces as well as six of Michael Owens's bottle machines, producing a total of 180,000 bottles per day. Review of historical Sanborn® Fire Insurance Maps indicates the Property to have primarily been used for warehousing purposes by OIGC. Production grew steadily at the Fairmont factory, and by the 1970s more than 1,000 people were employed. In 1978, OIGC began phasing out operations. In March 1982, the plant closed.

Since the OIGC plant closure, Property occupants have included: Best One Tire, Cobre Tire, BST, Inc., Orgama, Ltd., Tri-State Express, Inc., and B&L Trucking, Inc.

The historical knowledge of the Site was derived primarily by the review of aerial and topographic mapping, database records review, and site reconnaissance activities. Large sections of Sanborn Fire Insurance mapping were unavailable for the subject Site, although portions available indicated the presence of a B.& O. Railroad line on the northwestern portion of the Property and the historical existence of a warehouse utilized by OIGC.

1902 – The Property is undeveloped.

1923-1927 - The Property is shown developed with multiple warehouse-type structures. A railroad spur appears to transect the northwestern portion of the Site. Two structures labeled "old storage" are present on the Site, as well as a third, unlabeled smaller structure. A rail line labeled as the B. &. O. Railroad crosses the northwestern portion of the Property.

A factory building and accompanying roadways are present immediately west of the Site. Beyond these are residential properties.

1955 - 1958 - The northern portion of the Property is developed with a large warehouse building (appears to be a portion of the currently existing building). The previously noted rail spur remains present on the northwestern portion of the Site. The area north of the Site is largely undeveloped, but a large "oil" aboveground storage tank (AST) is depicted. A large industrial complex with multiple buildings is present to the south.

1968 - A large warehouse is present on the Site as an addition to the warehouse noted previously. The former warehouse building is labeled as Owens Illinois Glass Co.

1976 - An addition is depicted on the southwest end of the Site structure.

1986 - 1987 –Speedway Exxon, 100 feet southwest of the Property at 1399 Speedway Avenue, had eight USTs registered to their location in April 1986; all eight USTs were out of use at the time of registration. Volumes of the tanks range from 3,000 gallons to 6,000 gallons. The contents of the USTs during their historic period of use are unknown, but presumed to be gasoline and diesel, and potential used oil. Closure documentation, including soil and groundwater testing, was not included in the regulatory file. The Property itself was listed as vacant in the 1987 City Directory.

1995 - 1999 - The southern portion of the on-site warehouse has been removed. The currently existing structures appear to be depicted. The Property was listed in City Directories as Orgama, Ltd. and Tri-State Express.

2000 - The Property was listed as B & L Trucking, Inc., Orgama, Ltd., and Tri-State Express, Inc.

2010 - The Property was listed as Cobre Tire, Guttman Oil Elkins Blk Plant, and Orgama, Ltd. On-site warehouses appear to be in their current configuration.

2.4 Previous Environmental Investigations

Environmental Standards performed and submitted a Phase I ESA report (Environmental Standards, 2020) for the subject Site on March 4, 2020. Portions of the larger prospective redevelopment area, immediately adjacent to the west and northwest Property border, have been accepted into the Voluntary Remediation Program (VRP) and received a Certificate of Completion on January 2, 2018. No other environmental assessment activities have been completed on the Site.

2.5 Current Use of the Site

The Property is currently used as a heavy equipment and truck tire repair facility by Best One Tire & Service.

2.6 Site Geology and Hydrogeology

The Property is underlain by the Pennsylvanian Missourian Series, which is characterized as a stratified sequence of carbonate rock. The Site lies at an elevation of approximately 996 feet above mean sea level (amsl).

Soils in the vicinity of Property consist of Urban Land and silt loam with impeded movement of water downward.

Surface water runoff from the Property is generally sheet flow from east to west across the Site. Hickman Run, located approximately 150 feet west of the Property, would be the closest receiving surface body. However, Hickman Run is almost entirely within a culvert along its length parallel with the Site. There are no wetlands located within the Site boundaries and it is not in a known flood plain. The location of below-ground on-site drainage systems, piping, *etc.*, is unknown.

2.7 Selection of COPCs

Based on the known historical operations at the Site, and the findings of the 2020 Phase I ESA, the following contaminants of potential concern (COPCs) were identified:

- Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, and zinc) due to the former Property occupant's glass manufacturing activities and listed hazardous waste generator codes.
- VOCs due to the upgradient petroleum fuel USTs, and the area's industrial history.
- Polycyclic aromatic hydrocarbons (PAHs), due to the upgradient petroleum fuel USTs, and the area's industrial history.

3.0 SITE ASSESSMENT INVESTIGATION

3.1 Objectives

The objective of the Phase II ESA is to collect information about soils and groundwater at the Site such that a determination can be made if the RECs identified during the Phase I ESA have impacted the Site. The data generated will be used to determine whether additional investigations are warranted and what remedial actions, if any, are warranted.

3.2 Scope-of-Work

The general Scope-of-Work associated with the Phase II ESA SAP included:

- 10 Surface soils, defined as 0-2 feet below ground surface (bgs), distributed across the Site (sample locations SS-1 through SS-10).
- 10 Subsurface soils, defined as greater than 2 feet bgs, distributed across the Site (sample locations SB-1 through SB-10).
- The installation of three groundwater monitoring wells (MW-1, MW-2, and MW-3) for groundwater monitoring. One to be located downgradient of the Speedway Exxon; one adjacent to the former building in the center of the Property; and one in the northeastern area near the former railroad spur.

Because of soil conditions and Geoprobe drilling equipment limitations, soil borings were limited to 26 feet or less. Therefore, monitoring wells could not be installed and the analysis of metals, VOCs, and PAHs via Synthetic Precipitation Leaching Procedure (SPLP) was added to the work scope.

Please refer to Figure 3 for the locations of the soil borings, SB-01 through SB-10.

All samples were to be analyzed for the following COPCs:

- VOCs in the subsurface soils and groundwater
- Metals in surface soil, subsurface soil, and groundwater
- PAHs in surface soil, subsurface soil, and groundwater

Environmental Standards contracted Geo-Environmental Drilling Company, Inc. (Geo-Environmental) to provide drilling and groundwater monitoring well installation services. The Geo-Environmental driller on site has West Virginia drilling license number 00587.

All samples were laboratory analyzed by Pace Analytical Services, LLC (Pace), a West Virginia Department of Environmental Protection- (WVDEP-) certified laboratory (Certification Number 143) located in Greensburg, Pennsylvania.

A summary of the samples collected is provided on Table 1. A summary of the analytical testing performed on each sample is provided on Table 2.

3.3 Deviations from the SAP

3.3.1 SPLP

Groundwater was not sampled due to subsurface conditions impeding the advancement of drilling equipment. Because of soil conditions and Geoprobe drilling equipment limitations, soil borings were limited to 26 feet or less. Therefore, groundwater monitoring wells could not be installed, and the analysis of metals, VOCs, and PAHs via synthetic precipitation leaching procedure (SPLP) was added to the subsurface soil Scope-of-Work.

The SPLP is a US EPA test method that can be used with soil samples from a site to estimate the site-specific adsorption-desorption potential of a contaminant that may impact groundwater. The soil is treated by the laboratory to simulate the conditions of acidic precipitation where rainwater may pass through the soil and travel into the groundwater, carrying soluble materials with it. For the purposes of this Phase II ESA, the SPLP leachate analytical result was compared to the applicable groundwater risk-based concentration (RBC). SPLP soil testing is not a substitute for groundwater analysis, but in site-specific cases, is an adequate line of evidence to demonstrate groundwater should not be impacted by soils and/or waste leaching to groundwater.

3.3.2 GPR

Ground penetrating radar (GPR) was employed prior to drilling to identify private underground utilities. Based on GPR findings, soil borings could be field-adjusted to provide safe distances from underground features. No soil boring was moved more than 5 feet from its planned location.

3.4 Soil Boring Installation

Geo Environmental used a Geoprobe 7730DT to advance soil borings and collect soil samples on August 11, 2020. Geo Environmental contacted 811 of West Virginia prior to subsurface drilling activities.

Ten soil borings were advanced at the Site to a depth at which groundwater was encountered, refusal/bedrock was encountered, or to a total approximate depth of 15-24 feet, whichever occurred first.

At each boring, soil cores were collected continuously from the ground surface to the bottom of the boring. A decontaminated Macro-Core® sampler was advanced and retrieved every 4 feet. Upon retrieval, the soil cores were visually classified by an Environmental Standards professional in the field according to color, texture, odor, and moisture content. Soil cores and drill cuttings were scanned with a photoionization detector (PID) to evaluate the recovered material for the potential presence and relative concentrations of non-methane volatile organic vapors, if present. The PID was calibrated with 100 part per million (ppm) isobutylene calibration gas.

Soil boring logs are provided in Appendix A. Soil boring locations are depicted in Figure 3. The table and text below summarize the boring observations:

Soil Boring ID	Total Depth (ft bgs)	Groundwater Encountered	Fill Encountered	PID Reading for Presence of VOCs	Refusal / Bedrock Encountered
SB-01	16	No	Yes	1.6 ppm (4-8 ft bgs)	Refusal
SB-02	15	No	Yes	< 1 ppm	Refusal
SB-03	15	No	Yes	< 1 ppm	Refusal
SB-04	24	13 ft bgs	Yes	< 1 ppm	No
SB-05	21	17 ft bgs	Yes	< 1 ppm	Refusal
SB-06	21.5	17 ft bgs	Yes	< 1 ppm	Refusal
SB-07	24	20 ft bgs	Yes	< 1 ppm	No
SB-08	13	No	Yes	< 1 ppm	Refusal
SB-09	21	No	Yes	< 1 ppm	Refusal
SB-10	16	15 ft bgs	Yes	< 1 ppm	Refusal

Dense clay refusals prevented the Geoprobe from obtaining depths which would allow for groundwater monitoring well installation. Narrow diameter, 1-inch augers were able to reach groundwater; however, once wider-diameter augers were substituted to allow for adequate space for monitoring well construction, the Geoprobe could not obtain those depths.

3.5 Soil Sample Collection

At each soil boring location, an Environmental Standards Professional collected one discrete soil sample at the surface (ranging between 0 - 2 feet bgs), and one discrete subsurface soil sample (ranging between 4 - 24 feet bgs). Specific depth intervals were selected using a screening approach biased towards the highest PID reading detected or other indications of potential impact. If no PID readings were observed, the subsurface sample was collected at the greatest depth. Two soil samples were collected per boring for laboratory analysis. A total of 20 soil grab samples, plus appropriate associated duplicates and quality control (QC) samples were collected for analysis.

Soil samples were immediately transferred into certified-clean, laboratory-supplied bottleware using a clean pair of nitrile gloves, or if VOCs, a Terra Core™ sampler. After collection, the containers were properly sealed and immediately placed upright in an ice-cooler pending packaging and shipment to the analytical laboratory. Surface soil sample SB-02 (0-2) was selected for a field duplicate. Subsurface soil sample SB-07 (20-24) was also selected for a field duplicate. Samples SB-08 (0-2) and SB-04 (20-24) were selected for the matrix spike/matrix spike duplicate (MS/MSD) samples. A trip blank sample for VOCs was also submitted to the laboratory for analysis.

3.6 Analytical Laboratory Services

Bottleware was labeled, placed into an iced container, and delivered with appropriate Chain-of-Custody documentation to Pace.

Samples were analyzed in accordance with the method requirements specified in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition* (SW-846); specifically, VOCs by US EPA SW-846 Method 8260C, PAHs by US EPA SW-846 Method 8270D, with selective ion monitoring (SIM), metals by US EPA SW-846 Methods 6010D/6020B and 7471, and SPLP for all COPCs by Method 1312.

Copies of the Laboratory Analytical Results are provided in Appendix B.

4.0 DATA VALIDATION

In accordance with US EPA protocols, 100 percent (%) of the site assessment data were validated. A copy of the Data Validation Report is provided as Appendix C.

During the Phase II ESA activities, QC samples including field duplicate, MS/MSD, and trip blank samples were collected. All equipment utilized for soil sample collection was disposable, and therefore, no equipment blank samples were necessary. These QC data, as well as laboratory QC data such as method blanks, laboratory control samples, and surrogates were evaluated by Environmental Standards.

Based on the quality assurance review, the analytical data generated during this Site investigation were determined to meet the data quality objectives (DQOs) of the project.

As qualified, data collected during the field sampling activities can be used to characterize the site, as well as to prepare a residual human health and ecological risk assessment for the site, if needed. The data can also be compared, as appropriate, to the applicable environmental regulatory benchmarks, standards, and criteria. The tabulated data presented in this report includes the applicable data validation qualifiers.

5.0 NATURE AND EXTENT OF CONTAMINATION

Environmental Standards compared the laboratory analytical data to the West Virginia Voluntary Remediation Program (VRP) *de minimis* values (Table 60-3B, revised June 1, 2017) to characterize the nature and extent of contamination. The soil samples were compared to both the residential and industrial soil *de minimis* values. Figure 4 provides a site overview of the soil exceedances compared to residential *de minimis* values, and Figure 5 provides a site overview of the soil exceedances compared to industrial soil *de minimis* values.

A sample containing a compound or analyte exceeding the *de minimis* value is to be identified as a contaminant of concern (COC).

5.1 Surface Soil Contaminants of Concern

Environmental Standards compared the surface soil laboratory analytical data to the West Virginia Voluntary Remediation and Redevelopment Act (WV VRRA) residential and industrial soil *de minimis* values (Table 60-3B, revised June 2017) to characterize the nature and extent of chemicals in surface soil. Ten surface soil samples were collected and analyzed for PAHs and metals. Table 3 provides a summary of the laboratory analytical results.

Metals

Residential: Laboratory analytical results indicate that arsenic concentrations are above the residential soil *de minimis* values in surface soil sample locations SB-03 (0-2) and SB-09 (0-2).

Industrial/Commercial: Laboratory analytical results indicate that only arsenic results at sample locations SB-03 (0-2) and SB-09 (0-2) are above the industrial soil *de minimis* value.

Therefore, arsenic was identified as a COC in surface soil, but only in locations SB-03 (0-2) and SB-09 (0-2). SB-03 and SB-09 are both located in the northwest region of the Site.

PAHs

Residential: Laboratory analytical results indicate that benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and *indeno*(1,2,3-cd)pyrene are above the residential soil *de minimis* values in surface soil sample locations SB-01 (0-2), SB-03 (0-2), SB-04 (0-2), SB-06 (0-2), SB-07 (0-2), SB-08 (0-2), and SB-09 (0-2).

Industrial/Commercial: Laboratory analytical results indicate that PAHs are below the industrial soil *de minimis* values.

Therefore, PAHs were identified as COCs in surface soil, but only for a future resident.

5.2 Subsurface Soil Contaminants of Concern

To determine the nature and extent of contamination in subsurface soil, Environmental Standards compared the subsurface soil sample laboratory analytical data to the WV VRRA residential and industrial soil *de minimis* values. Ten subsurface soil samples were collected

and analyzed for VOCs, PAHs, and metals. Table 4 provides a summary of the laboratory analytical results.

Metals

Residential: Laboratory analytical results indicate that arsenic concentrations are above the residential soil *de minimis* value in subsurface soil sample locations SB-05 (16-20), SB-07 (20-24) and SB-10 (14-16). These locations are east of the Site buildings.

Industrial/Commercial: Laboratory analytical results indicate that the concentration of metals evaluated in subsurface soils collected at the Site are below the industrial soil *de minimis* values.

Therefore, arsenic was identified as a COC in subsurface soil, but only for a future resident.

PAHs

Residential: Laboratory analytical results indicate that PAHs evaluated in subsurface soils collected at the Site are below the residential soil *de minimis* value.

Industrial/Commercial: Laboratory analytical results indicate that PAHs evaluated in subsurface soils collected at the Site are below the industrial soil *de minimis* value.

Therefore, PAHs were eliminated as COCs in subsurface soil.

VOCs

Residential: Laboratory analytical results indicate that the concentration of VOCs evaluated in subsurface soils collected at the Site are below the residential soil *de minimis* value.

Industrial/Commercial: Laboratory analytical results indicate that the concentration of VOCs evaluated in subsurface soils collected at the Site are below the industrial soil *de minimis* value.

Therefore, VOCs were eliminated as COCs in subsurface soil.

5.3 Groundwater Contaminants of Concern

Groundwater monitoring wells could not be installed due to equipment limitations and subsurface conditions at the Site. Therefore, SPLP was utilized on ten subsurface soil samples to estimate the potential adsorption-desorption of contaminants that may impact groundwater at the Site.

To determine the nature and extent of contamination in groundwater, Environmental Standards compared the groundwater laboratory analytical data to the WV VRRA groundwater *de minimis* values (Table 60-3B, revised June 2017). The SPLP leachate of 10 subsurface samples were analyzed for VOCs, PAHs, and metals. Please refer to Table 5 for a summary of the SPLP laboratory analytical results.

Metals: Laboratory analytical results indicate that the concentrations of metals were below their respective *de minimis* values in the SPLP leachate samples, except for cadmium in sample SB-02 (14-15). Soil boring SB-02 is immediately east of Building #3, and the location did not have a corresponding total cadmium exceedance in the SB-02 (14-15) subsurface soil sample. This inconsistency would be due to sample non-homogeneity prior to analysis.

Therefore, cadmium was identified as a COPC in groundwater.

PAHs: Laboratory analytical results indicate that the concentration PAHs evaluated in groundwater collected at the Site did not exceeded the groundwater *de minimis* value, except for dibenz(a,h)anthracene in SB-10 (14-16). Soil boring SB-10 is located north of Building #4.

Therefore, dibenz(a,h)anthracene was identified as a COPC in groundwater.

VOCs: Laboratory analytical results indicate that the concentration of VOCs evaluated in groundwater collected at the Site are below the groundwater *de minimis* values.

5.4 Vapor Intrusion Screening

Compounds that are prone to volatilization can be compared to screening levels using the US EPA's Vapor Intrusion Screening Level (VISL) Calculator (https://epa-visl.ornl.gov/cgi-bin/visl_search) in order to determine if vapor intrusion can be a potentially complete pathway at the Site. There were no compounds prone to volatilization detected in the subsurface; therefore, vapor intrusion not a potentially complete pathway for the Site.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

The objectives of the US EPA-approved Phase II ESA SAP were met. Based on these Phase II ESA investigations and results, Environmental Standards developed the following conclusions.

6.1.1 Surface Soil

Surface soil at the Site has been impacted by historical activities. Surface soil concentrations of arsenic were above residential and industrial soil *de minimis* values in locations SB-03 (0-2) and SB-09 (0-2), located in the northwest region of the Site and PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) were above the residential soil *de minimis* values in locations scattered throughout the Site.

6.1.2 Subsurface Soil

Subsurface soil at the Site has been impacted by historical activities. Subsurface soil concentrations of arsenic were above the residential soil *de minimis* values in sample locations SB-05 (16-20), SB-07 (20-24) and SB-10 (14-16), located east of the Site buildings.

6.1.3 Groundwater

SPLP was utilized on ten subsurface soil samples to estimate the adsorption-desorption potential of contaminants that may impact groundwater at the Site. SPLP concentration of cadmium was above the groundwater *de minimis* value in soil boring SB-02, located immediately east of Building #3. SPLP concentration of dibenz(a,h)anthracene was above the groundwater *de minimis* value in soil boring SB-10, located north of Building #4.

6.1.4 Vapor Intrusion Potential

Groundwater concentrations were below the vapor intrusion screening criteria, making vapor intrusion an incomplete pathway.

6.2 Summary Conceptual Site Model

A summary conceptual site model (CSM), was developed based on the available site information. The CSM identifies the COCs, the nature and extent of contamination to the degree known, the potential pathways for migration of contamination, and the potential receptors, both human health and ecological. The ecological pathway is incomplete due to the industrial development of the property. A visual representation of the human health CSM and the ecological CSM, based on potential exposures, is presented in Appendix D.

6.3 Recommendations

Based on the findings of the August 2020 investigations, Environmental Standards recommends the following:

- Enroll the Site in the West Virginia VRP to address site contamination.

- Restrict soil excavation or soil displacement on the Site until a Soil Management Plan is developed. This plan should be approved by the WVDEP prior to soil disturbance.

- Delineate the extent of surface soil arsenic contamination in the northwest region of the Site. Remediate the impacted soils by either removal, or with the installation of an engineered soil cover or cap.

- Institute a land use covenant (LUC) restricting the property to nonresidential use and prohibiting the extraction of groundwater except for monitoring and/or remediation.

7.0 REFERENCES

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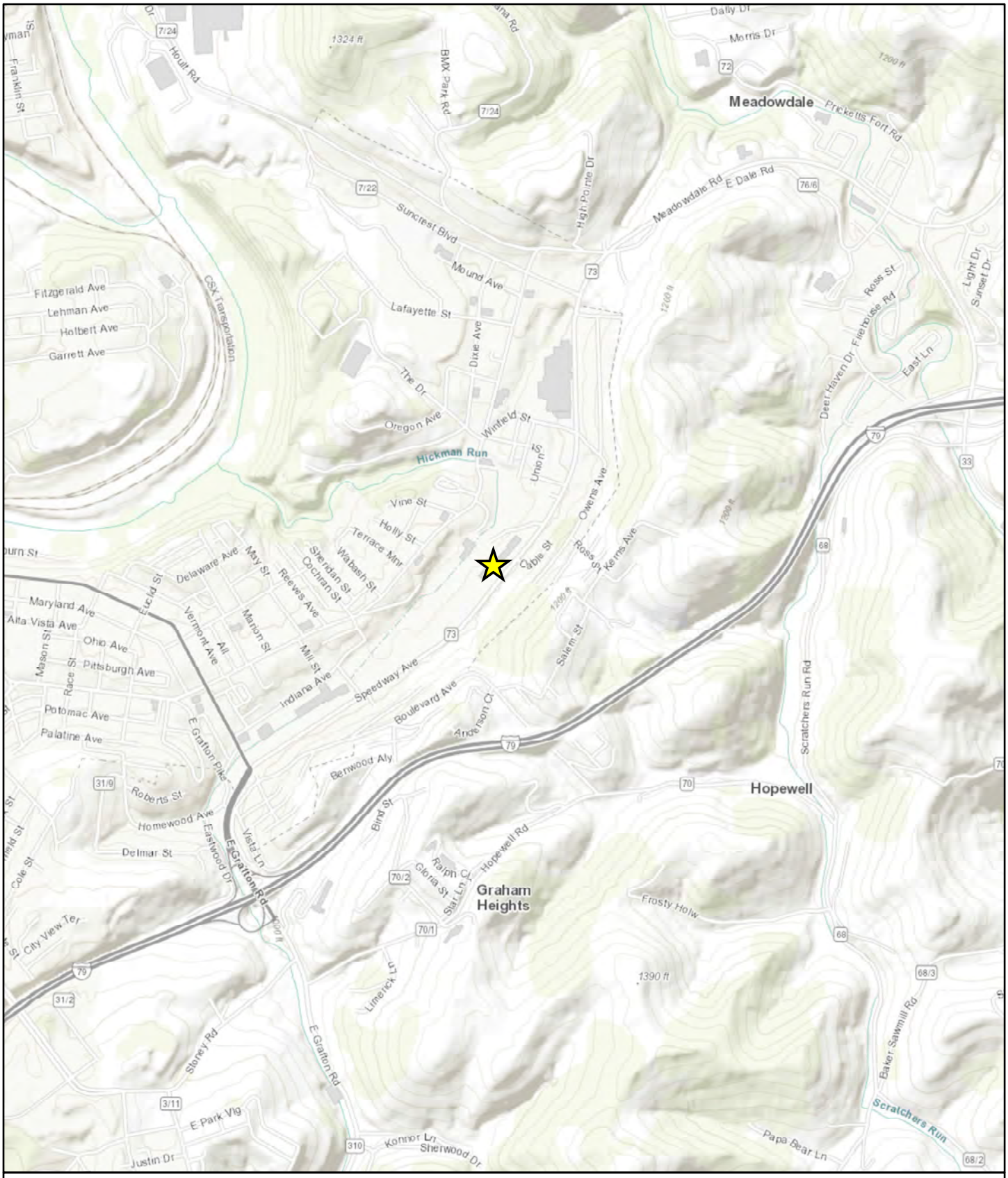
FIGURES



SITE LOCATION

SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

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0 0.0750.15 0.3 MILES

CREATION DATE: FEBRUARY 12, 2020	PROJECT NO: 20198730.A		FIGURE 1: SITE TOPOGRAPHIC MAP
ENVIRONMENTAL STANDARDS	DRAWN BY: AKN	APPRV'D BY: -	
	CHEK'D BY: -	REVISION: 0	SPEEDWAY BUSINESS PARK ADDITION 1500 SPEEDWAY AVENUE, FAIRMONT, WV

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APPROXIMATE PROPERTY BOUNDARY

OFFSITE REC LOCATION

SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

CREATION DATE: FEBRUARY 12, 2020	PROJECT NO: 20198730.A		FIGURE 2: SITE LOCATION MAP
ENVIRONMENTAL STANDARDS®	DRAWN BY: AKN	APPRV'D BY: -	
	CHEK'D BY: -	REVISION: 0	SPEEDWAY BUSINESS PARK ADDITION 1500 SPEEDWAY AVENUE, FAIRMONT, WV

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APPROXIMATE PROPERTY BOUNDARY

OFFSITE REC LOCATION

SOIL BORING LOCATIONS

SOURCE: ESRI, DIGITALGLOBE, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

CREATION DATE: JUNE 10, 2020	PROJECT NO: 20198730.A		FIGURE 3: SAP SOIL BORINGS LOCATION MAP
ENVIRONMENTAL STANDARDS®	DRAWN BY: MNW	APPRV'D BY: LM	
	CHEK'D BY: LM	REVISION: 0	SPEEDWAY BUSINESS PARK ADDITION 1500 SPEEDWAY AVENUE, FAIRMONT, WV

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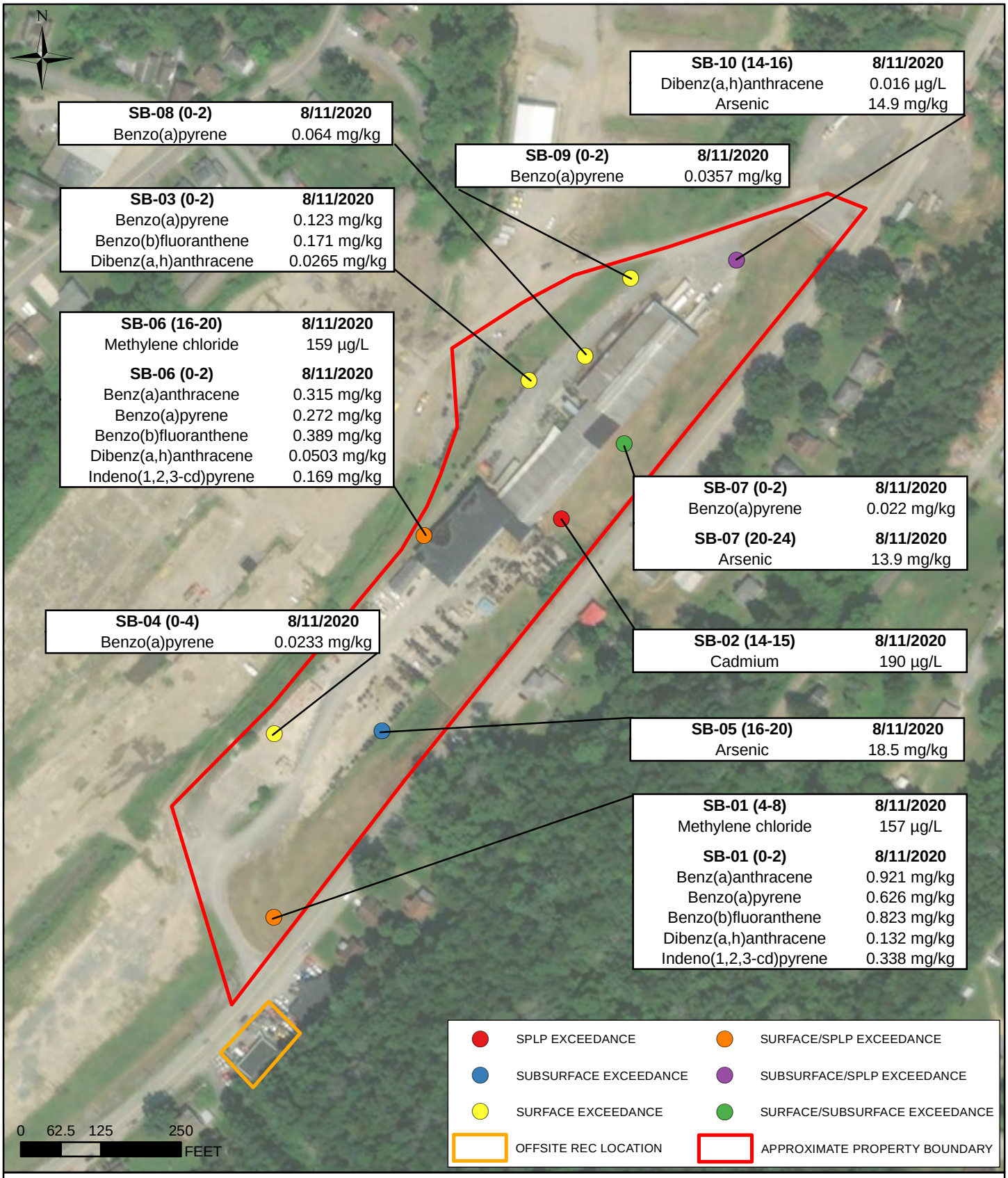

SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

GROUNDWATER RBC	µg/L
Methylene chloride	5
Cadmium	5
Dibenz(a,h)anthracene	0.0034

RESIDENTIAL SOIL RBC	mg/kg
Benz(a)anthracene	0.21
Benzo(a)pyrene	0.016
Benzo(b)fluoranthene	0.16
Dibenz(a,h)anthracene	0.016
Indeno(1,2,3-cd)pyrene	0.16
Arsenic	13

CREATION DATE:	PROJECT NO:		FIGURE 4: RESIDENTIAL EXCEEDANCES
SEPTEMBER 11, 2020	20198730.A		
ENVIRONMENTAL STANDARDS	DRAWN BY: MNW	APPRV'D BY: LM	
	CHEK'D BY: JRW	REVISION: 0	SPEEDWAY BUSINESS PARK ADDITION 1500 SPEEDWAY AVENUE, FAIRMONT, WV

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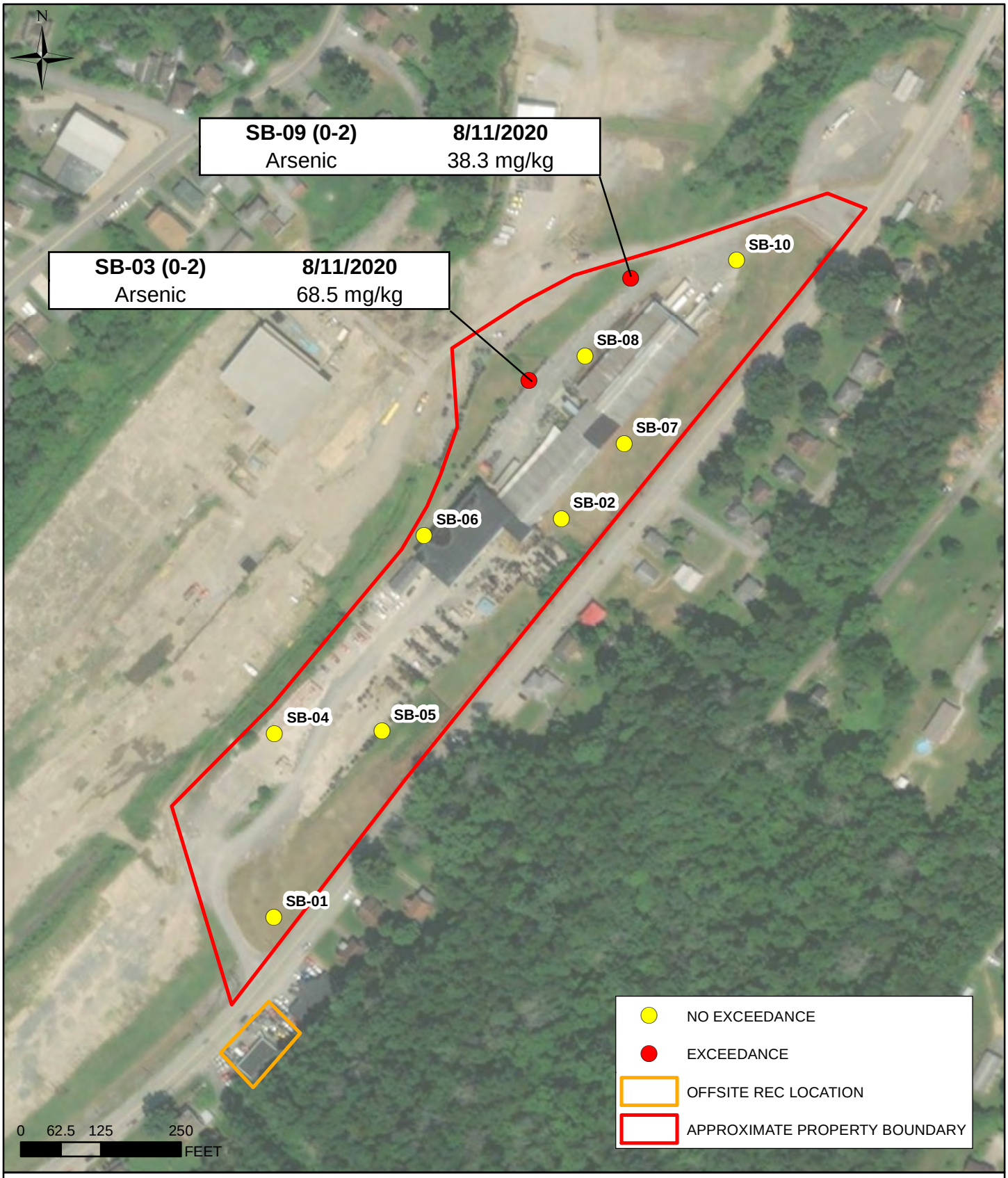

SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

INDUSTRIAL RBC	mg/kg
Arsenic	35

CREATION DATE: SEPTEMBER 11, 2020	PROJECT NO: 20198730.A		FIGURE 5: INDUSTRIAL EXCEEDANCES
ENVIRONMENTAL STANDARDS	DRAWN BY: MNW	APPRV'D BY: LM	
	CHEK'D BY: JRW	REVISION: 0	SPEEDWAY BUSINESS PARK ADDITION 1500 SPEEDWAY AVENUE, FAIRMONT, WV

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TABLES

Table 1. Sample Summary
Speedway Business Park Addition Site
1496/1500 Speedway Avenue, Grant BF-963604-01-0
Fairmont, Marion County, West Virginia

Sample Identification	Media	Area of Potential Concern	Reason for Assessment
SS-1	Surface Soil (0-2' bgs)	Southern tip of Site	Current soil conditions
SS-2	Surface Soil (0-2' bgs)	Eastern corner of Building 2	Current soil conditions
SS-3	Surface Soil (0-2' bgs)	Northwestern portion of Site, near former railroad spur	Current soil conditions
SS-4	Surface Soil (0-2' bgs)	Southwestern portion of Site, near cardboard recycling area	Current soil conditions
SS-5	Surface Soil (0-2' bgs)	Southeastern portion of Site	Current soil conditions
SS-6	Surface Soil (0-2' bgs)	North of oil water separator, west of Building 2	Current soil conditions
SS-7	Surface Soil (0-2' bgs)	Eastern edge of Building 3	Current soil conditions
SS-8	Surface Soil (0-2' bgs)	Western edge of Building 4	Current soil conditions
SS-9	Surface Soil (0-2' bgs)	Northern portion of Site, near northwest corner of Building 4	Current soil conditions
SS-10	Surface Soil (0-2' bgs)	Northeastern grass area, north of buildings	Current soil conditions
SB-1	Subsurface Soil (> 2' bgs)	Southern tip of Site, downgradient of 1399 Speedway Avenue	Current soil conditions
SB-2	Subsurface Soil (> 2' bgs)	Eastern corner of Building 2	Current soil conditions
SB-3	Subsurface Soil (> 2' bgs)	Northwestern portion of Site, near former railroad spur	Current soil conditions
SB-4	Subsurface Soil (> 2' bgs)	Southwestern portion of Site, near current cardboard recycling	Current soil conditions
SB-5	Subsurface Soil (> 2' bgs)	Southeastern portion of Site	Current soil conditions
SB-6	Subsurface Soil (> 2' bgs)	North of oil water separator, west of Building 2	Current soil conditions
SB-7	Subsurface Soil (> 2' bgs)	Eastern edge of Building 3	Current soil conditions
SB-8	Subsurface Soil (> 2' bgs)	Western edge of Building 4	Current soil conditions
SB-9	Subsurface Soil (> 2' bgs)	Northern portion of Site, near northwest corner of Building 4	Current soil conditions
SB-10	Subsurface Soil (> 2' bgs)	Northeastern grass area, north of buildings	Current soil conditions

Table 2. Analytical Summary
Speedway Business Park Addition Property
1496/1500 Speedway Avenue, Grant BF-963604-01-0
Fairmont, Marion County, West Virginia

Environmental Media and Sample Identification	VOCs SW8260	PAHs SW8270 SIM	Total Metals SW6010C or 6020A	VOCs SPLP	PAHs SPLP	Total Metals SPLP	Sample Type
Soil Samples							
Surface Soil (0'-2' bgs)							
SS-1	--	1	1	--	--	--	Grab
SS-2	--	1	1	--	--	--	Grab
SS-3	--	1	1	--	--	--	Grab
SS-4	--	1	1	--	--	--	Grab
SS-5	--	1	1	--	--	--	Grab
SS-6	--	1	1	--	--	--	Grab
SS-7	--	1	1	--	--	--	Grab
SS-8	--	1	1	--	--	--	Grab
SS-9	--	1	1	--	--	--	Grab
SS-10	--	1	1	--	--	--	Grab
Subsurface Soil (> 2' bgs)							
SB-1	1	1	1	1	1	1	Grab
SB-2	1	1	1	1	1	1	Grab
SB-3	1	1	1	1	1	1	Grab
SB-4	1	1	1	1	1	1	Grab
SB-5	1	1	1	1	1	1	Grab
SB-6	1	1	1	1	1	1	Grab
SB-7	1	1	1	1	1	1	Grab
SB-8	1	1	1	1	1	1	Grab
SB-9	1	1	1	1	1	1	Grab
SB-10	1	1	1	1	1	1	Grab
Total Soil Samples	**10**	**20**	**20**	**10**	**10**	**10**	

Note:
VOCs = volatile organic compounds.
PAHs = polycyclic aromatic hydrocarbons

Table 3. 2020 Phase II ESA Surface (0' - 2') Soil Data
City of Fairmont - Speedway Business Park Addition
Fairmont, West Virginia

Analyte Name	Industrial Soil RBC	Residential Soil RBC		SB01 (0-2)	SB02 (0-2)	SB02 (0-2)-FD	SB03 (0-2)	SB04 (0-4)	SB05 (0-2)
			Date:	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020
			Units	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result
Metals									
Arsenic	35	13	mg/kg	4.7	12.3	11	**68.5**	11.2	2.4
Barium	400000	15000	mg/kg	98.7	102	105	176	78.7	78.1
Cadmium	980	37	mg/kg	0.23 J	0.1 J	0.094 J	1.3	0.11 J	0.12 J
Chromium	1000000	120000	mg/kg	15.8	26.1	27.3	107	24.6	16.9
Lead	1000	400	mg/kg	44.7	16.9	15.9	91.9	14	10.4
Mercury	3.1	3.1	mg/kg	0.093 J	0.067 J	0.088 J	0.049 J	0.052 J	0.02 J
Selenium	12000	390	mg/kg	<0.61	<0.64	<0.64	<0.65	<0.67	<0.64
Silver	12000	390	mg/kg	<0.086	<0.091	<0.091	<0.092	<0.095	<0.09
Zinc	700000	23000	mg/kg	116	56	55.4	82.8	55.3	45.6
PAHs									
1-Methylnaphthalene	390	24	mg/kg	0.0563	<0.00556	<0.00574	0.0568	<0.00574	<0.00555
2-Methylnaphthalene	9300	310	mg/kg	0.0737	<0.00528	<0.00546	0.0692	<0.00546	<0.00528
Acenaphthene	70000	4100	mg/kg	0.122	<0.00259	<0.00267	0.00782	<0.00267	<0.00258
Acenaphthylene	80000	4200	mg/kg	<0.00256	<0.00267	<0.00276	<0.0025	<0.00276	<0.00267
Anthracene	700000	23000	mg/kg	0.431	<0.00285	0.00472 J	0.0237	0.00595 J	<0.00284
Benz(a)anthracene	88	0.21	mg/kg	**0.921**	0.00286 J	0.00652 J	0.124	0.0224	<0.00214
Benzo(a)pyrene	4.3	0.016	mg/kg	**0.626**	0.00228 J	0.0045 J	**0.123**	**0.0233**	<0.00221
Benzo(b)fluoranthene	43	0.16	mg/kg	**0.823**	0.00278 J	0.00591 J	**0.171**	0.0308	<0.00189
Benzo(g,h,i)perylene	33000	1800	mg/kg	0.35	<0.00219	0.00289 J	0.101	0.0164	<0.00219
Benzo(k)fluoranthene	430	1.6	mg/kg	0.284	<0.00266	<0.00275	0.0563	0.00957	<0.00266
Chrysene	4300	16	mg/kg	0.769	<0.00287	0.00559 J	0.129	0.0207	<0.00287
Dibenz(a,h)anthracene	4.3	0.016	mg/kg	**0.132**	<0.00213	<0.0022	**0.0265**	0.00344 J	<0.00213
Fluoranthene	44000	2400	mg/kg	1.73	0.00599 J	0.0146	0.193	0.0382	<0.0028
Fluorene	62000	2900	mg/kg	0.145	<0.00254	0.00271 J	0.00963	<0.00262	<0.00253
Indeno(1,2,3-cd)pyrene	43	0.16	mg/kg	**0.338**	<0.00224	0.00271 J	0.0841	0.0144	<0.00224
Naphthalene	180	4.1	mg/kg	0.0377	<0.00505	<0.00522	0.0495	<0.00521	<0.00504
Phenanthrene	700000	23000	mg/kg	1.2	0.00382 J	0.0159	0.118	0.0204	<0.00285
Pyrene	66000	2300	mg/kg	1.36	0.00468 J	0.0109	0.187	0.0331	<0.00247

Analyte Name	Industrial Soil RBC	Residential Soil RBC		SB06 (0-2)	SB07 (0-2)	SB08 (0-2)	SB09 (0-2)	SB10 (0-2)
			Date:	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020
			Units	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result
Metals								
Arsenic	35	13	mg/kg	12.1	12.9	6.7	**38.3**	5.1
Barium	400000	15000	mg/kg	194	296	<2.2	216	92.5
Cadmium	980	37	mg/kg	0.24 J	0.16 J	0.16 J	3.1	0.069 J
Chromium	1000000	120000	mg/kg	19.7	23.5	16.6	27.4	22.5
Lead	1000	400	mg/kg	25	14.8	29.4	153	21.1
Mercury	3.1	3.1	mg/kg	0.061 J	0.092 J	0.059 J	0.31	0.065 J
Selenium	12000	390	mg/kg	<0.64	<0.63	<0.67	<0.7	<0.67
Silver	12000	390	mg/kg	<0.091	<0.089	<0.095	<0.099	<0.096
Zinc	700000	23000	mg/kg	71.8	55.9	53.9	177	55
PAHs								
1-Methylnaphthalene	390	24	mg/kg	0.0197 J	<0.00526	0.0358	0.0726	<0.0058
2-Methylnaphthalene	9300	310	mg/kg	0.0236 J	<0.00501	0.0449	0.0719	<0.00552
Acenaphthene	70000	4100	mg/kg	0.0344	0.003 J	<0.00239	0.0025 J	<0.0027
Acenaphthylene	80000	4200	mg/kg	<0.00268	<0.00253	0.0107	0.0084	<0.00279
Anthracene	700000	23000	mg/kg	0.0864	0.00673 J	0.0191	0.00703	<0.00297
Benz(a)anthracene	88	0.21	mg/kg	**0.315**	0.0245	0.0922	0.0394	<0.00224
Benzo(a)pyrene	4.3	0.016	mg/kg	**0.272**	**0.022**	**0.064**	**0.0357**	<0.00231
Benzo(b)fluoranthene	43	0.16	mg/kg	**0.389**	0.0318	0.117	0.0596	<0.00198
Benzo(g,h,i)perylene	33000	1800	mg/kg	0.179	0.017	0.0437	0.0288	<0.00229
Benzo(k)fluoranthene	430	1.6	mg/kg	0.111	0.01	0.0512	0.0214	<0.00278
Chrysene	4300	16	mg/kg	0.297	0.0245	0.0822	0.0553	<0.003
Dibenz(a,h)anthracene	4.3	0.016	mg/kg	**0.0503**	0.00441 J	0.0112	0.0073	<0.00222
Fluoranthene	44000	2400	mg/kg	0.554	0.0536	0.127	0.0719	<0.00293
Fluorene	62000	2900	mg/kg	0.0337	0.00278 J	0.00783	0.00326 J	<0.00265
Indeno(1,2,3-cd)pyrene	43	0.16	mg/kg	**0.169**	0.0142	0.0677	0.0321	<0.00234
Naphthalene	180	4.1	mg/kg	0.0207 J	<0.00478	0.0404	0.0475	<0.00527
Phenanthrene	700000	23000	mg/kg	0.324	0.0322	0.0687	0.09	<0.00299
Pyrene	66000	2300	mg/kg	0.484	0.043	0.104	0.0712	<0.00258

Notes:

RBC = Risk-based concentration defined in the West Virginia Voluntary Remediation and Redevelopment Act Table 60-3B *De Minimis* , June 2017.

Arsenic residential soil RBC is the maximum published background concentration (2019 VRP Guidance Manual, Table 3-3: Background Concentrations of Elements in WV Soils).

< - Indicates analyte was not detected above Laboratory Method Dectection Limit

J - indicates estimated result. The results is between the detection limit and the reporting limit.

NS - No standard (WV De Minimis) available

mg/kg - milligrams per kilogram

NA - Not available

Highlighted and bold results - Reporting Limit is above the WV De Minimis Standard.

Table 4. 2020 Phase II ESA Sub-Surface (>2') Soil Data
City of Fairmont - Speedway Business Park Addition
Fairmont, West Virginia

Analyte Name	Industrial Soil RBC	Residential Soil RBC		SB01 (4-8)	SB02 (14-15)	SB03 (12-15)	SB04 (20-24)	SB05 (16-20)	SB06 (16-20)	SB07 (20-24)
			Date:	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020
			Units:	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result
VOCs										
1,1,2-Trichlorotrifluoroethane	910	910	mg/kg	<0.0022	<0.0024	<0.0019	<0.0037	<0.0032	<0.0072	<0.0027
1,2,3-Trichlorobenzene	NA	NA	mg/kg	<0.00096	<0.0011	<0.00086	<0.0016	<0.0014	<0.0032	<0.0012
1,2,4-Trimethylbenzene	220	62	mg/kg	<0.0025	<0.0028	<0.0022	<0.0042	<0.0037	<0.0082	<0.0031
1,3,5-Trimethylbenzene	180	180	mg/kg	<0.002	<0.0023	<0.0018	<0.0035	<0.0031	<0.0068	<0.0025
Isopropylbenzene	270	270	mg/kg	<0.0012	<0.0013	<0.001	<0.002	<0.0017	<0.0039	<0.0015
Methyl Acetate	29000	23000	mg/kg	<0.0011	<0.0012	<0.00098	<0.0019	<0.0016	<0.0036	<0.0014
trans-1,2-Dichloroethene	570	130	mg/kg	<0.0013	<0.0014	<0.0011	<0.0022	<0.0019	<0.0042	<0.0016
1,2,4-Trichlorobenzene	280	24	mg/kg	<0.0013	<0.0014	<0.0011	<0.0022	<0.0019	<0.0042	<0.0016
1,2-Dichlorobenzene	380	380	mg/kg	<0.00059	<0.00067	<0.00053	<0.001	<0.00089	<0.002	<0.00074
1,3-Dichlorobenzene	NA	NA	mg/kg	<0.00066	<0.00073	<0.00059	<0.0011	<0.00098	<0.0022	<0.00081
1,4-Dichlorobenzene	120	2.8	mg/kg	<0.00072	<0.0008	<0.00064	<0.0012	<0.0011	<0.0024	<0.00089
1,1,1-Trichloroethane	640	640	mg/kg	<0.0015	<0.0017	<0.0014	<0.0026	<0.0023	<0.0051	<0.0019
1,1,2,2-Tetrachloroethane	31	0.64	mg/kg	<0.00059	<0.00067	<0.00053	<0.001	<0.00089	<0.002	<0.00074
1,1,2-Trichloroethane	6.8	1.2	mg/kg	<0.001	<0.0011	<0.00089	<0.0017	<0.0015	<0.0033	<0.0012
1,1-Dichloroethane	170	3.8	mg/kg	<0.0013	<0.0014	<0.0011	<0.0022	<0.0019	<0.0042	<0.0016
1,1-Dichloroethene	1100	240	mg/kg	<0.0019	<0.0021	<0.0017	<0.0032	<0.0028	<0.0062	<0.0023
1,2-Dibromo-3-chloropropane	0.7	0.0057	mg/kg	<0.0012	<0.0014	<0.0011	<0.0021	<0.0018	<0.004	<0.0015
1,2-Dibromoethane	1.8	0.039	mg/kg	<0.00081	<0.0009	<0.00072	<0.0014	<0.0012	<0.0027	<0.001
1,2-Dichloroethane	23	0.5	mg/kg	<0.0013	<0.0015	<0.0012	<0.0022	<0.0019	<0.0043	<0.0016
1,2-Dichloropropane	49	1.1	mg/kg	<0.00073	<0.00081	<0.00065	<0.0012	<0.0011	<0.0024	<0.0009
2-Butanone	NA	28000	mg/kg	<0.00092	<0.001	0.007.5 J	<0.0016	<0.0014	<0.003	<0.0011
2-Hexanone	NA	NA	mg/kg	<0.00099	<0.0011	<0.00088	<0.0017	<0.0015	<0.0033	<0.0012
4-Methyl-2-pentanone	3400	3400	mg/kg	<0.0011	<0.0013	<0.001	0.0019	0.0017	0.0037	<0.0014
Acetone	110000	61000	mg/kg	0.0449	0.07	0.0755	0.0164 J	0.0446	0.0663	0.0403
Benzene	57	1.2	mg/kg	<0.00088	<0.00098	<0.00078	<0.0015	<0.0013	<0.0029	<0.0011
Bromodichloromethane	14	0.31	mg/kg	<0.0011	<0.0012	<0.00098	<0.0019	<0.0016	<0.0036	<0.0014

Analyte Name	Industrial Soil RBC	Residential Soil RBC		SB07 (20-24)-FD	SB08 (8-12)	SB09 (16-20)	SB10 (14-16)
			Date:	8/11/2020	8/11/2020	8/11/2020	8/11/2020
			Units:	Dry Result	Dry Result	Dry Result	Dry Result
VOCs							
1,1,2-Trichlorotrifluoroethane	910	910	mg/kg	<0.0024	<0.0019	<0.0018	<0.0032
1,2,3-Trichlorobenzene	NA	NA	mg/kg	<0.0011	<0.00083	<0.00081	<0.0014
1,2,4-Trimethylbenzene	220	62	mg/kg	<0.0028	<0.0021	<0.0021	<0.0037
1,3,5-Trimethylbenzene	180	180	mg/kg	<0.0023	<0.0018	<0.0017	<0.003
Isopropylbenzene	270	270	mg/kg	<0.0013	<0.001	<0.00099	<0.0017
Methyl Acetate	29000	23000	mg/kg	<0.0012	<0.00095	<0.00093	<0.0016
trans-1,2-Dichloroethene	570	130	mg/kg	<0.0014	<0.0011	<0.0011	<0.0019
1,2,4-Trichlorobenzene	280	24	mg/kg	<0.0014	<0.0011	<0.0011	<0.0019
1,2-Dichlorobenzene	380	380	mg/kg	<0.00067	<0.00052	<0.0005	<0.00088
1,3-Dichlorobenzene	NA	NA	mg/kg	<0.00074	<0.00057	<0.00055	<0.00097
1,4-Dichlorobenzene	120	2.8	mg/kg	<0.00081	<0.00062	<0.00061	<0.0011
1,1,1-Trichloroethane	640	640	mg/kg	<0.0017	<0.0013	<0.0013	<0.0023
1,1,2,2-Tetrachloroethane	31	0.64	mg/kg	<0.00067	<0.00052	<0.0005	<0.00088
1,1,2-Trichloroethane	6.8	1.2	mg/kg	<0.0011	<0.00087	<0.00084	<0.0015
1,1-Dichloroethane	170	3.8	mg/kg	<0.0014	<0.0011	<0.0011	<0.0019
1,1-Dichloroethene	1100	240	mg/kg	<0.0021	<0.0016	<0.0016	<0.0028
1,2-Dibromo-3-chloropropane	0.7	0.0057	mg/kg	<0.0014	<0.001	<0.001	<0.0018
1,2-Dibromoethane	1.8	0.039	mg/kg	<0.00091	<0.0007	<0.00068	<0.0012
1,2-Dichloroethane	23	0.5	mg/kg	<0.0015	<0.0011	<0.0011	<0.0019
1,2-Dichloropropane	49	1.1	mg/kg	<0.00082	<0.00063	<0.00061	<0.0011
2-Butanone	NA	28000	mg/kg	<0.001	<0.0008	0.0043 J	<0.0014
2-Hexanone	NA	NA	mg/kg	<0.0011	<0.00086	<0.00084	<0.0015
4-Methyl-2-pentanone	3400	3400	mg/kg	<0.0013	<0.00098	<0.00095	<0.0017
Acetone	110000	61000	mg/kg	0.0222	0.0277	0.0529	0.0237
Benzene	57	1.2	mg/kg	<0.00099	<0.00076	<0.00074	<0.0013
Bromodichloromethane	14	0.31	mg/kg	<0.0012	<0.00095	<0.00093	<0.0016

Analyte Name	Industrial Soil RBC	Residential Soil RBC		SB01 (4-8)	SB02 (14-15)	SB03 (12-15)	SB04 (20-24)	SB05 (16-20)	SB06 (16-20)	SB07 (20-24)
			Date:	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020
			Units:	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result
VOCs										
Bromoform	910	20	mg/kg	<0.00067	<0.00075	<0.0006	<0.0011	<0.00099	<0.0022	<0.00083
Bromomethane	33	7.3	mg/kg	<0.0019	<0.0021	<0.0017	<0.0032	<0.0028	<0.0062	<0.0023
Carbon disulfide	740	740	mg/kg	<0.0014	<0.0016	0.002 J	<0.0024	<0.0021	0.0067 J	<0.0018
Carbon tetrachloride	32	0.7	mg/kg	<0.0017	<0.0019	<0.0016	<0.003	<0.0026	<0.0058	<0.0022
Chlorobenzene	760	290	mg/kg	<0.00079	<0.00088	<0.0007	<0.0013	<0.0012	<0.0026	<0.00098
Chloroethane	2100	2100	mg/kg	<0.0021	<0.0024	<0.0019	<0.0036	<0.0031	<0.007	<0.0026
Chloroform	15	0.34	mg/kg	<0.0015	<0.0017	<0.0014	<0.0026	<0.0023	<0.005	<0.0019
Chloromethane	500	120	mg/kg	<0.0017	<0.0019	<0.0015	<0.0029	<0.0025	<0.0057	<0.0021
cis-1,2-Dichloroethene	81	17	mg/kg	<0.0012	<0.0013	<0.001	<0.002	<0.0017	<0.0039	<0.0015
cis-1,3-Dichloropropene	99	1.9	mg/kg	<0.0005	<0.00057	<0.00045	<0.00086	<0.00075	<0.0017	<0.00063
Cyclohexane	120	120	mg/kg	<0.0019	<0.0021	<0.0017	<0.0032	<0.0028	<0.0063	<0.0024
Dibromochloromethane	780	8.3	mg/kg	<0.0008	<0.00089	<0.00071	<0.0014	<0.0012	<0.0026	<0.00099
Dichlorodifluoromethane	400	94	mg/kg	<0.0027	<0.0031	<0.0024	<0.0047	<0.0041	<0.0091	<0.0034
Ethylbenzene	280	6.2	mg/kg	<0.0011	<0.0012	<0.00097	<0.0019	<0.0016	<0.0036	<0.0014
Methyl tert butyl ether	2300	50	mg/kg	<0.00068	<0.00076	<0.0006	<0.0012	<0.001	<0.0022	<0.00084
Methylcyclohexane	NA	NA	mg/kg	<0.0031	<0.0035	<0.0028	<0.0054	<0.0047	0.0118 J	<0.0039
Methylene chloride	3300	58	mg/kg	<0.0042	<0.0047	<0.0038	<0.0072	<0.0063	<0.014	<0.0052
Styrene	870	870	mg/kg	<0.0015	<0.0016	<0.0013	<0.0025	<0.0022	<0.0048	<0.0018
Tetrachloroethene	170	25	mg/kg	<0.0017	<0.002	<0.0016	<0.003	<0.0026	<0.0058	<0.0022
Toluene	820	820	mg/kg	<0.001	<0.0011	<0.00089	<0.0017	<0.0015	<0.0033	<0.0012
trans-1,3-Dichloropropene	99	1.9	mg/kg	<0.001	<0.0012	<0.00094	<0.0018	<0.0016	<0.0035	<0.0013
Trichloroethene	20	0.5	mg/kg	<0.0015	<0.0017	<0.0013	<0.0025	<0.0022	<0.0049	<0.0018
Trichlorofluoromethane	1200	790	mg/kg	<0.0022	<0.0024	<0.0019	<0.0037	<0.0033	<0.0072	<0.0027
Vinyl chloride	22	0.057	mg/kg	<0.0022	<0.0024	<0.0019	<0.0037	<0.0032	<0.0072	<0.0027
Xylene (Total)	260	260	mg/kg	<0.0032	<0.0036	<0.0029	<0.0055	<0.0048	<0.0106	<0.004

Analyte Name	Industrial Soil RBC	Residential Soil RBC		SB07 (20-24)-FD	SB08 (8-12)	SB09 (16-20)	SB10 (14-16)
			Date:	8/11/2020	8/11/2020	8/11/2020	8/11/2020
			Units:	Dry Result	Dry Result	Dry Result	Dry Result
VOCs							
Bromoform	910	20	mg/kg	<0.00075	<0.00058	<0.00056	<0.00099
Bromomethane	33	7.3	mg/kg	<0.0021	<0.0016	<0.0016	<0.0028
Carbon disulfide	740	740	mg/kg	0.0033 J	0.0097	0.0088	<0.0021
Carbon tetrachloride	32	0.7	mg/kg	<0.002	<0.0015	<0.0015	<0.0026
Chlorobenzene	760	290	mg/kg	<0.00089	<0.00068	<0.00067	<0.0012
Chloroethane	2100	2100	mg/kg	<0.0024	<0.0018	<0.0018	<0.0031
Chloroform	15	0.34	mg/kg	<0.0017	<0.0013	<0.0013	<0.0022
Chloromethane	500	120	mg/kg	<0.0019	<0.0015	<0.0014	<0.0025
cis-1,2-Dichloroethene	81	17	mg/kg	<0.0013	<0.001	<0.00099	0.0093
cis-1,3-Dichloropropene	99	1.9	mg/kg	<0.00057	<0.00044	<0.00043	<0.00075
Cyclohexane	120	120	mg/kg	<0.0021	<0.0016	<0.0016	<0.0028
Dibromochloromethane	780	8.3	mg/kg	<0.0009	<0.00069	<0.00067	<0.0012
Dichlorodifluoromethane	400	94	mg/kg	<0.0031	<0.0024	<0.0023	<0.0041
Ethylbenzene	280	6.2	mg/kg	<0.0012	<0.00094	<0.00092	<0.0016
Methyl tert butyl ether	2300	50	mg/kg	<0.00076	<0.00059	<0.00057	<0.001
Methylcyclohexane	NA	NA	mg/kg	<0.0035	<0.0027	<0.0027	<0.0047
Methylene chloride	3300	58	mg/kg	<0.0048	<0.0037	<0.0036	<0.0063
Styrene	870	870	mg/kg	<0.0016	<0.0013	<0.0012	<0.0022
Tetrachloroethene	170	25	mg/kg	<0.002	<0.0015	<0.0015	<0.0026
Toluene	820	820	mg/kg	<0.0011	<0.00087	<0.00084	<0.0015
trans-1,3-Dichloropropene	99	1.9	mg/kg	<0.0012	<0.00091	<0.00089	<0.0016
Trichloroethene	20	0.5	mg/kg	<0.0017	<0.0013	<0.0013	0.0135
Trichlorofluoromethane	1200	790	mg/kg	<0.0025	<0.0019	<0.0018	<0.0032
Vinyl chloride	22	0.057	mg/kg	<0.0024	<0.0019	<0.0018	<0.0032
Xylene (Total)	260	260	mg/kg	<0.0036	<0.0028	<0.0027	<0.0048

Analyte Name	Industrial Soil RBC	Residential Soil RBC		SB01 (4-8)	SB02 (14-15)	SB03 (12-15)	SB04 (20-24)	SB05 (16-20)	SB06 (16-20)	SB07 (20-24)
			Date:	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020	8/11/2020
			Units:	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result
Metals										
Arsenic	35	13	mg/kg	6.3	4.4	8.4	5.3	**18.5**	8.8	**13.9**
Barium	400000	15000	mg/kg	86.7	145	59.3	101	39.3	103	71.6
Cadmium	980	37	mg/kg	0.12 J	0.1 J	0.095 J	0.13 J	0.073 J	0.17 J	0.11 J
Chromium	1000000	120000	mg/kg	22.1	26.9	13.4	17	3.9	13.7	13.8
Lead	1000	400	mg/kg	17.2	19.5	7.6	9.6	3.4	16.1	7.4
Mercury	3.1	3.1	mg/kg	0.03 J	0.065 J	0.011 J	0.023 J	<0.0056	0.031 J	0.014 J
Selenium	12000	390	mg/kg	<0.7	<0.79	<0.62	<0.7	<0.73	<0.67	<0.8
Silver	12000	390	mg/kg	<0.099	<0.11	<0.087	<0.099	<0.1	<0.095	<0.11
Zinc	700000	23000	mg/kg	49.9	65.3	28.1	40.5	9.6	46.4	36.6
PAHs										
1-Methylnaphthalene	390	24	mg/kg	<0.00552	<0.00605	<0.00536	<0.00554	<0.00559	<0.0053	<0.00596
2-Methylnaphthalene	9300	310	mg/kg	<0.00525	<0.00575	<0.0051	<0.00527	<0.00531	<0.00504	<0.00567
Acenaphthene	70000	4100	mg/kg	<0.00257	<0.00282	<0.00249	<0.00258	<0.0026	<0.00247	<0.00277
Acenaphthylene	80000	4200	mg/kg	<0.00265	<0.00291	<0.00258	<0.00266	<0.00269	<0.00255	<0.00287
Anthracene	700000	23000	mg/kg	<0.00283	<0.0031	<0.00275	<0.00284	<0.00286	<0.00272	<0.00305
Benz(a)anthracene	88	0.21	mg/kg	<0.00213	<0.00233	<0.00207	<0.00213	<0.00215	0.00443 J	<0.0023
Benzo(a)pyrene	4.3	0.016	mg/kg	<0.0022	<0.00241	<0.00214	<0.00221	<0.00223	0.00462 J	<0.00238
Benzo(b)fluoranthene	43	0.16	mg/kg	<0.00188	<0.00206	<0.00183	<0.00189	<0.0019	0.00586 J	<0.00203
Benzo(g,h,i)perylene	33000	1800	mg/kg	<0.00218	<0.00238	<0.00211	<0.00218	<0.0022	0.00333 J	<0.00235
Benzo(k)fluoranthene	430	1.6	mg/kg	<0.00264	<0.0029	<0.00257	<0.00265	<0.00268	<0.00254	<0.00285
Chrysene	4300	16	mg/kg	<0.00285	<0.00312	<0.00277	<0.00286	<0.00289	0.00484 J	<0.00308
Dibenz(a,h)anthracene	4.3	0.016	mg/kg	<0.00211	<0.00232	<0.00205	<0.00212	<0.00214	<0.00203	<0.00228
Fluoranthene	44000	2400	mg/kg	<0.00279	<0.00306	<0.00271	<0.0028	<0.00283	0.00991	<0.00301
Fluorene	62000	2900	mg/kg	<0.00252	<0.00276	<0.00245	<0.00253	<0.00255	<0.00242	<0.00272
Indeno(1,2,3-cd)pyrene	43	0.16	mg/kg	<0.00222	<0.00244	<0.00216	<0.00223	<0.00225	0.00275 J	<0.0024
Naphthalene	180	4.1	mg/kg	<0.00501	<0.0055	<0.00487	<0.00503	<0.00508	<0.00482	<0.00542
Phenanthrene	700000	23000	mg/kg	<0.00284	<0.00311	<0.00276	<0.00285	<0.00287	0.00693 J	<0.00307
Pyrene	66000	2300	mg/kg	<0.00246	<0.00269	<0.00239	<0.00247	<0.00249	0.00835	<0.00265

Notes:

RBC = Risk-based concentration defined in the West Virginia Voluntary Remediation and Redevelopment Act Table 60-3B *De Minimis* , June 2017.

Arsenic residential soil RBC is the maximum published background concentration (2019 VRP Guidance Manual, Table 3-3: Background Concentrations of Elements in WV Soils).

< - Indicates analyte was not detected above Laboratory Method Dectection Limit

J - indicates estimated result. The results is between the detection limit and the reporting limit.

NS - No standard (WV De Minimis) available

ug/kg - micrograms per kilogram

mg/kg - milligrams per kilogram

NA - Not available

Highlighted and bold results - Reported Detection is above the WV De Minimis Standard.

Analyte Name	Industrial Soil RBC	Residential Soil RBC		SB07 (20-24)-FD	SB08 (8-12)	SB09 (16-20)	SB10 (14-16)
			Date:	8/11/2020	8/11/2020	8/11/2020	8/11/2020
			Units:	Dry Result	Dry Result	Dry Result	Dry Result
Metals							
Arsenic	35	13	mg/kg	7.8	6.2	7	**14.9**
Barium	400000	15000	mg/kg	113	98.1	112	39.2
Cadmium	980	37	mg/kg	0.12 J	0.063 J	0.13 J	0.064 J
Chromium	1000000	120000	mg/kg	17.5	16.2	18.6	9
Lead	1000	400	mg/kg	10.6	13.7	13.4	6.2
Mercury	3.1	3.1	mg/kg	0.031 J	<0.0057	0.015 J	<0.0052
Selenium	12000	390	mg/kg	<0.76	<0.67	<0.7	<0.62
Silver	12000	390	mg/kg	<0.11	<0.095	<0.099	<0.088
Zinc	700000	23000	mg/kg	49.3	41.6	44.8	16.3
PAHs							
1-Methylnaphthalene	390	24	mg/kg	<0.00563	<0.00542	<0.00586	<0.00539
2-Methylnaphthalene	9300	310	mg/kg	<0.00535	<0.00515	<0.00557	<0.00512
Acenaphthene	70000	4100	mg/kg	<0.00262	<0.00252	<0.00273	<0.00251
Acenaphthylene	80000	4200	mg/kg	<0.00271	<0.00261	<0.00282	<0.00259
Anthracene	700000	23000	mg/kg	<0.00288	0.00576 J	<0.003	<0.00276
Benz(a)anthracene	88	0.21	mg/kg	<0.00217	0.0069 J	<0.00226	<0.00208
Benzo(a)pyrene	4.3	0.016	mg/kg	<0.00224	0.00442 J	<0.00234	<0.00215
Benzo(b)fluoranthene	43	0.16	mg/kg	<0.00192	0.0056 J	<0.002	<0.00184
Benzo(g,h,i)perylene	33000	1800	mg/kg	<0.00222	0.0022 J	<0.00231	<0.00212
Benzo(k)fluoranthene	430	1.6	mg/kg	<0.00269	0.0043 J	<0.00281	<0.00258
Chrysene	4300	16	mg/kg	<0.00291	0.00537 J	<0.00303	<0.00278
Dibenz(a,h)anthracene	4.3	0.016	mg/kg	<0.00216	<0.00208	<0.00225	<0.00206
Fluoranthene	44000	2400	mg/kg	<0.00285	0.00613 J	<0.00296	<0.00272
Fluorene	62000	2900	mg/kg	<0.00257	<0.00247	<0.00268	<0.00246
Indeno(1,2,3-cd)pyrene	43	0.16	mg/kg	<0.00227	0.00334 J	<0.00236	<0.00217
Naphthalene	180	4.1	mg/kg	<0.00511	<0.00492	<0.00533	<0.0049
Phenanthrene	700000	23000	mg/kg	<0.0029	0.00386 J	<0.00302	<0.00277
Pyrene	66000	2300	mg/kg	<0.00251	0.00596 J	<0.00261	<0.0024

Table 5, 2020 Phase II ESA Subsurface (>2') SPLP Soil Leachate Data Compared to Groundwater
City of Fairmont - Speedway Business Park Addition
Fairmont, West Virginia

Analyte Name	Groundwater RBC		SB01 (4-8)	SB02 (14-15)	SB03 (12-15)	SB04 (20-24)	SB05 (16-20)	SB06 (16-20)	SB07 (20-24)	SB07 (20-24)-FD
		Date:	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20
		Units	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result
VOCs										
1,1,2-Trichlorotrifluoroethane	57000	ug/l	<21.5	<21.5	<21.5	<21.5	<21.5	<21.5	<21.5	<21.5
1,2,3-Trichlorobenzene	NS	ug/l	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5
1,2,4-Trimethylbenzene	15	ug/l	<24.4	<24.4	<24.4	<24.4	<24.4	<24.4	<24.4	<24.4
1,3,5-Trimethylbenzene	120	ug/l	<20.3	<20.3	<20.3	<20.3	<20.3	<20.3	<20.3	<20.3
Isopropylbenzene	450	ug/l	<11.6	<11.6	<11.6	<11.6	<11.6	<11.6	<11.6	<11.6
Methyl Acetate	5300	ug/l	<10.9	<10.9	<10.9	<10.9	<10.9	<10.9	<10.9	<10.9
trans-1,2-Dichloroethene	100	ug/l	<12.7	<12.7	<12.7	<12.7	<12.7	<12.7	<12.7	<12.7
1,2,4-Trichlorobenzene	70	ug/l	<12.7	<12.7	<12.7	<12.7	<12.7	<12.7	<12.7	<12.7
1,2-Dichlorobenzene	600	ug/l	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
1,3-Dichlorobenzene	NS	ug/l	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5	<6.5
1,4-Dichlorobenzene	75	ug/l	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1
1,1,1-Trichloroethane	200	ug/l	<15.1	<15.1	<15.1	<15.1	<15.1	<15.1	<15.1	<15.1
1,1,2,2-Tetrachloroethane	0.076	ug/l	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9	<5.9
1,1,2-Trichloroethane	5	ug/l	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9
1,1-Dichloroethane	2.8	ug/l	<12.6	<12.6	<12.6	<12.6	<12.6	<12.6	<12.6	<12.6
1,1-Dichloroethene	7	ug/l	<18.6	<18.6	<18.6	<18.6	<18.6	<18.6	<18.6	<18.6
1,2-Dibromo-3-chloropropane	0.2	ug/l	<12	<12	<12	<12	<12	<12	<12	<12
1,2-Dibromoethane	0.05	ug/l	<8	<8	<8	<8	<8	<8	<8	<8
1,2-Dichloroethane	5	ug/l	<12.9	<12.9	<12.9	<12.9	<12.9	<12.9	<12.9	<12.9
1,2-Dichloropropane	5	ug/l	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2
2-Butanone	5600	ug/l	<9.1	<9.1	<9.1	<9.1	<9.1	<9.1	<9.1	<9.1
2-Hexanone	NS	ug/l	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8
4-Methyl-2-pentanone	1200	ug/l	<11.2	<11.2	<11.2	<11.2	<11.2	<11.2	<11.2	<11.2
Acetone	14000	ug/l	13500 B	1470 B	<31.8	844 B	<31.8	3490 B	72.4 J	52.9 J
Benzene	5	ug/l	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7	<8.7
Bromodichloromethane	0.13	ug/l	<10.9	<10.9	<10.9	<10.9	<10.9	<10.9	<10.9	<10.9

Analyte Name	Groundwater RBC		SB08 (8-12)	SB09 (16-20)	SB10 (14-16)
		Date:	08/11/20	08/11/20	08/11/20
		Units	Dry Result	Dry Result	Dry Result
VOCs					
1,1,2-Trichlorotrifluoroethane	57000	ug/l	<21.5	<21.5	<21.5
1,2,3-Trichlorobenzene	NS	ug/l	<9.5	<9.5	<9.5
1,2,4-Trimethylbenzene	15	ug/l	<24.4	<24.4	<24.4
1,3,5-Trimethylbenzene	120	ug/l	<20.3	<20.3	<20.3
Isopropylbenzene	450	ug/l	<11.6	<11.6	<11.6
Methyl Acetate	5300	ug/l	<10.9	<10.9	<10.9
trans-1,2-Dichloroethene	100	ug/l	<12.7	<12.7	<12.7
1,2,4-Trichlorobenzene	70	ug/l	<12.7	<12.7	<12.7
1,2-Dichlorobenzene	600	ug/l	<5.9	<5.9	<5.9
1,3-Dichlorobenzene	NS	ug/l	<6.5	<6.5	<6.5
1,4-Dichlorobenzene	75	ug/l	<7.1	<7.1	<7.1
1,1,1-Trichloroethane	200	ug/l	<15.1	<15.1	<15.1
1,1,2,2-Tetrachloroethane	0.076	ug/l	<5.9	<5.9	<5.9
1,1,2-Trichloroethane	5	ug/l	<9.9	<9.9	<9.9
1,1-Dichloroethane	2.8	ug/l	<12.6	<12.6	<12.6
1,1-Dichloroethene	7	ug/l	<18.6	<18.6	<18.6
1,2-Dibromo-3-chloropropane	0.2	ug/l	<12	<12	<12
1,2-Dibromoethane	0.05	ug/l	<8	<8	<8
1,2-Dichloroethane	5	ug/l	<12.9	<12.9	<12.9
1,2-Dichloropropane	5	ug/l	<7.2	<7.2	<7.2
2-Butanone	5600	ug/l	<9.1	<9.1	<9.1
2-Hexanone	NS	ug/l	<9.8	<9.8	<9.8
4-Methyl-2-pentanone	1200	ug/l	<11.2	<11.2	<11.2
Acetone	14000	ug/l	<31.8	<31.8	<31.8
Benzene	5	ug/l	<8.7	<8.7	<8.7
Bromodichloromethane	0.13	ug/l	<10.9	<10.9	<10.9

Analyte Name	Groundwater RBC		SB01 (4-8)	SB02 (14-15)	SB03 (12-15)	SB04 (20-24)	SB05 (16-20)	SB06 (16-20)	SB07 (20-24)	SB07 (20-24)-FD
		Date:	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20
		Units	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result
VOCs										
Bromoform	3.3	ug/l	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
Bromomethane	7.5	ug/l	<18.6	<18.6	<18.6	<18.6	<18.6	<18.6	<18.6	<18.6
Carbon disulfide	810	ug/l	<14.2	<14.2	<14.2	<14.2	<14.2	<14.2	<14.2	<14.2
Carbon tetrachloride	5	ug/l	<17.2	<17.2	<17.2	<17.2	<17.2	<17.2	<17.2	<17.2
Chlorobenzene	100	ug/l	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8	<7.8
Chloroethane	21000	ug/l	<20.9	<20.9	<20.9	<20.9	<20.9	<20.9	<20.9	<20.9
Chloroform	0.22	ug/l	<15	<15	<15	<15	<15	<15	<15	<15
Chloromethane	190	ug/l	<16.9	<16.9	<16.9	<16.9	<16.9	<16.9	<16.9	<16.9
cis-1,2-Dichloroethene	70	ug/l	<11.6	<11.6	<11.6	<11.6	<11.6	<11.6	<11.6	<11.6
cis-1,3-Dichloropropene	NS	ug/l	<5	<5	<5	<5	<5	<5	<5	<5
Cyclohexane	13000	ug/l	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8	<18.8
Dibromochloromethane	0.13	ug/l	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9	<7.9
Dichlorodifluoromethane	200	ug/l	<27.1	<27.1	<27.1	<27.1	<27.1	<27.1	<27.1	<27.1
Ethylbenzene	700	ug/l	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8
Methyl tert butyl ether (MTBE)	14	ug/l	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7
Methylcyclohexane	NS	ug/l	<31.1	<31.1	<31.1	<31.1	<31.1	<31.1	<31.1	<31.1
Methylene chloride	5	ug/l	157 B	<41.9	<41.9	<41.9	<41.9	159 B	<41.9	<41.9
Styrene	100	ug/l	<14.4	<14.4	<14.4	<14.4	<14.4	<14.4	<14.4	<14.4
Tetrachloroethene	5	ug/l	<17.3	<17.3	<17.3	<17.3	<17.3	<17.3	<17.3	<17.3
Toluene	1000	ug/l	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9
trans-1,3-Dichloropropene	NS	ug/l	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4
Trichloroethene	5	ug/l	<14.7	<14.7	<14.7	<14.7	<14.7	<14.7	<14.7	<14.7
Trichlorofluoromethane	1100	ug/l	<21.6	<21.6	<21.6	<21.6	<21.6	<21.6	<21.6	<21.6
Vinyl chloride	2	ug/l	<21.5	<21.5	<21.5	<21.5	<21.5	<21.5	<21.5	<21.5
Xylene (Total)	10000	ug/l	<31.7	<31.7	<31.7	<31.7	<31.7	<31.7	<31.7	<31.7

Analyte Name	Groundwater RBC		SB08 (8-12)	SB09 (16-20)	SB10 (14-16)
		Date:	08/11/20	08/11/20	08/11/20
		Units	Dry Result	Dry Result	Dry Result
VOCs					
Bromoform	3.3	ug/l	<6.6	<6.6	<6.6
Bromomethane	7.5	ug/l	<18.6	<18.6	<18.6
Carbon disulfide	810	ug/l	<14.2	<14.2	<14.2
Carbon tetrachloride	5	ug/l	<17.2	<17.2	<17.2
Chlorobenzene	100	ug/l	<7.8	<7.8	<7.8
Chloroethane	21000	ug/l	<20.9	<20.9	<20.9
Chloroform	0.22	ug/l	<15	<15	<15
Chloromethane	190	ug/l	<16.9	<16.9	<16.9
cis-1,2-Dichloroethene	70	ug/l	<11.6	<11.6	<11.6
cis-1,3-Dichloropropene	NS	ug/l	<5	<5	<5
Cyclohexane	13000	ug/l	<18.8	<18.8	<18.8
Dibromochloromethane	0.13	ug/l	<7.9	<7.9	<7.9
Dichlorodifluoromethane	200	ug/l	<27.1	<27.1	<27.1
Ethylbenzene	700	ug/l	<10.8	<10.8	<10.8
Methyl tert butyl ether (MTBE)	14	ug/l	<6.7	<6.7	<6.7
Methylcyclohexane	NS	ug/l	<31.1	<31.1	<31.1
Methylene chloride	5	ug/l	<41.9	<41.9	<41.9
Styrene	100	ug/l	<14.4	<14.4	<14.4
Tetrachloroethene	5	ug/l	<17.3	<17.3	<17.3
Toluene	1000	ug/l	25.8 J	<9.9	<9.9
trans-1,3-Dichloropropene	NS	ug/l	<10.4	<10.4	<10.4
Trichloroethene	5	ug/l	<14.7	<14.7	<14.7
Trichlorofluoromethane	1100	ug/l	<21.6	<21.6	<21.6
Vinyl chloride	2	ug/l	<21.5	<21.5	<21.5
Xylene (Total)	10000	ug/l	<31.7	<31.7	<31.7

Analyte Name	Groundwater RBC		SB01 (4-8)	SB02 (14-15)	SB03 (12-15)	SB04 (20-24)	SB05 (16-20)	SB06 (16-20)	SB07 (20-24)	SB07 (20-24)-FD
		Date:	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20	08/11/20
		Units	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result	Dry Result
Metals										
Arsenic	10	ug/l	<3.3	3.6 J	<3.3	4.3 J	6.1 J	4.6 J	3.9 J	4.9 J
Barium	2000	ug/l	44 J	160	13 J	100	49 J	57	54	53
Cadmium	5	ug/l	0.32 J	**190**	0.32 J	0.49 J	<0.27	0.4 J	0.43 J	0.34 J
Chromium	22000	ug/l	6.2 J	25	1.5 J	15 J	12 J	8.1 J	8.2 J	7.4 J
Lead	15	ug/l	<3.1	12 J	<3.1	8.6 J	5.5 J	5.3 J	<3.1	3.6 J
Mercury	2	ug/l	<0.03	0.08 J	<0.03	<0.03	<0.03	<0.03	0.03 J	0.04 J
Selenium	50	ug/l	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6
Silver	94	ug/l	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98	<0.98
Zinc	6000	ug/l	12 J	55	4.9 J	31	19 J	21 J	15 J	14 J
PAHs										
1-Methylnaphthalene	1.1	ug/l	<0.137	<0.137	<0.0687	<0.137	<0.137	<0.0687	<0.137	<0.137
2-Methylnaphthalene	36	ug/l	<0.135	<0.135	<0.0674	<0.135	<0.135	<0.0674	<0.135	<0.135
Acenaphthene	240	ug/l	<0.038	<0.038	<0.019	<0.038	<0.038	<0.019	<0.038	<0.038
Acenaphthylene	320	ug/l	<0.0342	<0.0342	<0.0171	<0.0342	<0.0342	<0.0171	<0.0342	<0.0342
Anthracene	1800	ug/l	<0.038	<0.038	<0.019	<0.038	<0.038	<0.019	<0.038	<0.038
Benz(a)anthracene	0.012	ug/l	<0.0406	<0.0406	<0.0203	<0.0406	<0.0406	<0.0203	<0.0406	<0.0406
Benzo(a)pyrene	0.2	ug/l	<0.0368	<0.0368	<0.0184	<0.0368	<0.0368	<0.0184	<0.0368	<0.0368
Benzo(b)fluoranthene	0.034	ug/l	<0.0336	<0.0336	<0.0168	<0.0336	<0.0336	<0.0168	<0.0336	<0.0336
Benzo(g,h,i)perylene	600	ug/l	<0.0368	<0.0368	<0.0184	<0.0368	<0.0368	<0.0184	<0.0368	<0.0368
Benzo(k)fluoranthene	0.34	ug/l	<0.0404	<0.0404	<0.0202	<0.0404	<0.0404	<0.0202	<0.0404	<0.0404
Chrysene	3.4	ug/l	<0.0358	<0.0358	<0.0179	<0.0358	<0.0358	<0.0179	<0.0358	<0.0358
Dibenz(a,h)anthracene	0.0034	ug/l	<0.032	<0.032	<0.016	<0.032	<0.032	<0.016	<0.032	<0.032
Fluoranthene	800	ug/l	<0.054	<0.054	<0.027	<0.054	<0.054	<0.027	<0.054	<0.054
Fluorene	150	ug/l	<0.0338	<0.0338	<0.0169	<0.0338	<0.0338	<0.0169	<0.0338	<0.0338
Indeno(1,2,3-cd)pyrene	0.034	ug/l	<0.0316	<0.0316	<0.0158	<0.0316	<0.0316	<0.0158	<0.0316	<0.0316
Naphthalene	0.17	ug/l	<0.183	<0.183	<0.0917	<0.183	<0.183	<0.0917	<0.183	<0.183
Phenanthrene	6000	ug/l	<0.036	0.0425 J	<0.018	<0.036	<0.036	0.0225 J	<0.036	<0.036
Pyrene	79	ug/l	0.0383 J	<0.0338	<0.0169	<0.0338	<0.0338	<0.0169	<0.0338	<0.0338

Notes:

RBC = Risk-based concentration defined in the West Virginia Voluntary Remediation and Redevelopment Act Table 60-3B *De Minimis*, June 2017.
Arsenic residential soil RBC is the maximum published background concentration (2019 VRP Guidance Manual, Table 3-3: Background Concentrations of Elements in WV Soils).

< - Indicates analyte was not detected above Laboratory Method Dectection Limit

J - indicates estimated result. The results is between the detection limit and the reporting limit.

B - indicates laboratory contamination.

NS - No standard (WV De Minimis) available

ug/L - micrograms per liter

NA - Not available

Highlighted and bold results - Reporting Detection is above the WV De Minimis Standard.

Analyte Name	Groundwater RBC		SB08 (8-12)	SB09 (16-20)	SB10 (14-16)
		Date:	08/11/20	08/11/20	08/11/20
		Units	Dry Result	Dry Result	Dry Result
Metals					
Arsenic	10	ug/l	4.2 J	5.9 J	6.1 J
Barium	2000	ug/l	52	100	30 J
Cadmium	5	ug/l	0.57 J	0.67 J	<0.27
Chromium	22000	ug/l	7.8 J	18 J	5.8 J
Lead	15	ug/l	4.5 J	6.5 J	3.5 J
Mercury	2	ug/l	<0.03	<0.03	<0.03
Selenium	50	ug/l	<3.6	<3.6	<3.6
Silver	94	ug/l	<0.98	<0.98	<0.98
Zinc	6000	ug/l	19 J	39	10 J
PAHs					
1-Methylnaphthalene	1.1	ug/l	<0.137	<0.137	<0.0687
2-Methylnaphthalene	36	ug/l	<0.135	<0.135	<0.0674
Acenaphthene	240	ug/l	<0.038	<0.038	<0.019
Acenaphthylene	320	ug/l	<0.0342	<0.0342	<0.0171
Anthracene	1800	ug/l	<0.038	<0.038	<0.019
Benz(a)anthracene	0.012	ug/l	<0.0406	<0.0406	<0.0203
Benzo(a)pyrene	0.2	ug/l	<0.0368	<0.0368	<0.0184
Benzo(b)fluoranthene	0.034	ug/l	<0.0336	<0.0336	<0.0168
Benzo(g,h,i)perylene	600	ug/l	<0.0368	<0.0368	0.0184
Benzo(k)fluoranthene	0.34	ug/l	<0.0404	<0.0404	<0.0202
Chrysene	3.4	ug/l	<0.0358	<0.0358	<0.0179
Dibenz(a,h)anthracene	0.0034	ug/l	<0.032	<0.032	**0.016**
Fluoranthene	800	ug/l	<0.054	<0.054	<0.027
Fluorene	150	ug/l	<0.0338	<0.0338	<0.0169
Indeno(1,2,3-cd)pyrene	0.034	ug/l	<0.0316	<0.0316	0.0158
Naphthalene	0.17	ug/l	<0.183	<0.183	<0.0917
Phenanthrene	6000	ug/l	<0.036	<0.036	<0.018
Pyrene	79	ug/l	<0.0338	<0.0338	<0.0169

APPENDIX A

	SOIL BORING # SB-01
DRILLING COMPANY: Geo-Environmental	DATE COMPLETED: 8-11-20
DRILL RIG: 7730DT	WATER DEPTH dRY
DRILLING METHOD: GeoProbe	LOGGED BY: L. Mistick
TOTAL DEPTH: 16'	TOIC ELEVATION:

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0		0.7		sandy, rocky clay (brown)	
1					2' sampled @ 0905
2		.2		gravel, dry	
3					
4		1.7		Sandy gravel	
5		0.4		Brown sandy clay	
		1.6			no odors
6		0.9		grey gravel	
7		0.5		Brown clay, red tint	4-8' @ 0930
		0.1			
8		0.0		red	
9		0.0		Clay	
10		0.4		w/ interm.	
11		0.0		gravel; dry	
12		0.0		Hard red clay w/	
13		0.0		Sand veins, some	
14		0.0		gravel; dry	
15		0.0			
16				refusal/rock @ 16'	
17					
18					
19					
20					
21					
22					
23					
24					
25					

BGS = BELOW GROUND SURFACE
TOIC = TOP OF INNER CASING
TOC = TOP OF CASING
M.S.L. = MEAN SEA LEVEL

FILE NAME:	DATE:
	PROJECT NO.:
ENVIRONMENTAL STANDARDS	DRAWN BY: / APRV'D BY:
	CHEK'D BY: / REVISION:

	SOIL BORING # SB02
DRILLING COMPANY: Geo-Environmental	DATE COMPLETED: 8-11-20
DRILL RIG:	WATER DEPTH Dry
DRILLING METHOD: Geoprobe	LOGGED BY: L. Mistrick
TOTAL DEPTH: 15'	TOIC ELEVATION:

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0					
1		0.0		organics 0-6"	
2				red, heavy	sampled
3				clay, dry	@
4				sandy clay 3.5-4'	1020
5		0.6		red	
6		0.1		sandy	no
7		0.0		clay; dry	odors
8		0.2			
9		0.1		red clay w/	
10		0.0		sandy veining, lightly	
11		0.0		interspersed gravel	
12		0.0			
13		0.0		~~wet~~ moist brown clay, sleeve full even though rig went 1.5' before ref	
14		0.0			
15		0.0		malleable, moist brown clay, sand @ last 6"	sampled @ 1050
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

BGS = BELOW GROUND SURFACE
TOIC = TOP OF INNER CASING
TOC = TOP OF CASING
M.S.L. = MEAN SEA LEVEL

FILE NAME:	DATE:	
	PROJECT NO.:	
ENVIRONMENTAL STANDARDS	DRAWN BY: / APRV'D BY:	
	CHEK'D BY: / REVISION:	

	SOIL BORING # SB03	PAGE 1 OF 1
DRILLING COMPANY: GeoEnvironmental	DATE COMPLETED: 8-11-20	
DRILL RIG:	WATER DEPTH dry	
DRILLING METHOD: GeoProbe	LOGGED BY: L. Mistick	
TOTAL DEPTH: 15'	TOIC ELEVATION:	

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0					
1		0.1		sand, gravel & rocks w/ ~~VOID 0-2'~~ glass mixed into clay	Sampled @ 1510
		0.1			
2					
3				VOID 2-4'	no odors
4					
5				VOID 4-6'	
6					
7		0.0		sand & glass	
		0.1		red sandy clay	
8					
9		0.0		4" of sandy clay mix	
		0.1		very compact, hard red clay	
10		0.1			
11		0.1			
12					
13		0.0		sand - black & white w/ green & clear glass	sampled 12-15' @ 1525
14					
		0.0		red and sandy w/ clay, moist	
15					
16				refusal @ 15'	
17					
18					
19					
20					
21					
22					
23					
24					
25					

BGS = BELOW GROUND SURFACE
TOIC = TOP OF INNER CASING
TOC = TOP OF CASING
M.S.L. = MEAN SEA LEVEL

FILE NAME:	DATE:	
	PROJECT NO.:	
ENVIRONMENTAL STANDARDS	DRAWN BY: / APRV'D BY:	
	CHEK'D BY: / REVISION:	

	SOIL BORING # SB04	PAGE 1 OF 1
DRILLING COMPANY: GeoEnvironmental	DATE COMPLETED: 8/11/20	
DRILL RIG:	WATER DEPTH 13'	
DRILLING METHOD: GeoProbe	LOGGED BY: L. Mistick	
TOTAL DEPTH: 24'	TOIC ELEVATION:	

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0		0.0		red clay & sand	sampled @ 1635
1					
2				void .5-4'	
3					
4					No odors
5		0.0		red clay & sand	
6		0.0		black, gritty band ~6-8"	
7		0.0		red clay & sand	
8					
9		0.0		Black / grey clay	
10		0.0		orange clay w/ sand	
11		0.0			
12		0.0			
13		0.0		wet orange clay w/ grey clay veins wettest @ 12-13'	
14					
15					
16					
17				VOID 16-17.5	
18		0.1		wet orange & black clay, some sand	
19					
20		0.0		sand (black, white, grey)	
21		0.0		orange clay	
22		0.0		saturated grey clay	sampled 20-24' @ 1700
23					
24		0.0		sand (red, blue, grey)	
25					

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TOC = TOP OF CASING
M.S.L. = MEAN SEA LEVEL

FILE NAME:	DATE:	
	PROJECT NO.:	
ENVIRONMENTAL STANDARDS	DRAWN BY: / APRV'D BY:	
	CHEK'D BY: / REVISION:	

	SOIL BORING # SB05	PAGE 1 OF 1
DRILLING COMPANY: GeoEnvironmental	DATE COMPLETED: 8-11-20	
DRILL RIG:	WATER DEPTH ~17'	
DRILLING METHOD: GeoProbe	LOGGED BY: L. Mistick	
TOTAL DEPTH: 21'	TOIC ELEVATION:	

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0					
1		0.1		gravel, rock & clay w/ orange sand	Sampled @ 1715
2		0.4			
		0.1			
3				1' VOID	
4				1' VOID	no odors
5					
6		0.0		orange clay & sand mixed w/ gravel	
7		0.0			
		0.0			
8					
9		0.0		dense clay w/ some grey sand interspersed	
10		0.0		→ ribbon of black (sand?) @ 10.5'	
11		0.0		dense clay & sand	
		0.0			
12					
13				VOID 12-13.5'	
14		0.0		thick grey clay	
15		0.0			
16		0.0		orange sand	
17		0.0		wet, orange sand w/ some clay mixed (grey mostly)	Sampled 16-20 @ 1735
18		0.0			
19		0.0			
20		0.0			
21		0.0		grey clay	
				refusal @ 21'	
22					
23					
24					
25					

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TOC = TOP OF CASING
M.S.L. = MEAN SEA LEVEL

FILE NAME:	DATE:	
	PROJECT NO.:	
ENVIRONMENTAL STANDARDS	DRAWN BY:	APRV'D BY:
	CHEK'D BY:	REVISION:

	SOIL BORING # SB06	PAGE 1 OF 1
DRILLING COMPANY: GeoEnvironmental	DATE COMPLETED: 8-11-20	
DRILL RIG:	WATER DEPTH 17'	
DRILLING METHOD: Geoprobe	LOGGED BY: L. Mistick	
TOTAL DEPTH: 21.5'	TOIC ELEVATION:	

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0		0.0		gravel	Sampled @ 1545
1		0.0		gravel, sand & clay	
2				VOID 2-4'	
3					
4				void 4-5.5'	
5					
6		0.0		gravel & pulverized Rock	no odors
7		0.0		grey, moist clay, ~~sam~~	
8					
9				6" of return gritty, sandy clay grey	
10		0.0			
11					
12		0.0		grey sandy clay, wet	
13		0.1		red sand & clay	
14					
15		0.0			
16		0.0		moist grey clay	
17		0.0		wet, clayey sand (orange, red, grey)	Sampled 16-20 @ 1605
18		0.0			
19		0.0			
20		0.0			
21		0.0		dense grey clay & sand	
22				refusal @ 21.5'	
23					
24					
25					

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FILE NAME:	DATE:	
	PROJECT NO.:	
ENVIRONMENTAL STANDARDS	DRAWN BY: / APRV'D BY:	
	CHEK'D BY: / REVISION:	

	SOIL BORING # SB07	PAGE 1 OF 1
DRILLING COMPANY: Geo-Environmental	DATE COMPLETED: 8-11-20	
DRILL RIG:	WATER DEPTH 20-21'	
DRILLING METHOD: Geoprobe	LOGGED BY: L. Mistick	
TOTAL DEPTH: 24'	TOIC ELEVATION:	

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0					
1		0.0		Organics, Loamy/Sandy	(0-2) Sampled @ 1125
2		↓		Hard red & brown clay; dry	
3					
4					
5		0.0		Sandy loam, dry	
6		0.0			
		0.0			
7		0.2			
8				Clay last 8"	
9	void				
10		0.0		Sand & gravel	
11		0.1		Loam	
		0.0		red clay 11-12'; moist	
12					
13		0.1		red clay 12-13	
14		0.0		gravel, sand, Loam	
15		0.0			
		0.0		Slag, green & black 15.5-16'	
16					
17				VOID	
18		0.1		red sandy clay w/ gravel	
		0.0			
19		0.0		wet sand	
20					
21		0.0	wet	Clayey sand	sampled @ 1205
22		0.0		wet sand	Hit water, ~~will set as MW-01A~~
23		0.1		blue slag, faintly moist	
24				refusal @ 24'	Can't get large auger past 14'
25					

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TOC = TOP OF CASING
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FILE NAME:	DATE:
	PROJECT NO.:
ENVIRONMENTAL STANDARDS	DRAWN BY: / APRV'D BY:
	CHEK'D BY: / REVISION:

	SOIL BORING # SB08	PAGE 1 OF 1
DRILLING COMPANY: GeoEnvironmental	DATE COMPLETED: 8.11.20	
DRILL RIG:	WATER DEPTH dry	
DRILLING METHOD: GeoProbe	LOGGED BY: L. Mistick	
TOTAL DEPTH: 13'	TOIC ELEVATION:	

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0				~~VOID 0-1~~ JM	
1		0.0		Black coarse & gritty sand w/	sample @ 1440
2		0.6		green glass	
3		0.1		red/orange clay / VOID 3-4'	no odors
4					
5				VOID 4-7'	
6					
7					
8		0.1		gravel & sand mixed w/ r/o clay	
9		0.1		Black/grey & gravelly w/	
10		0.1		red flecks	sampled 8-12' @ 1450
11		0.1		grey clay	
12		0.1		red/or. clay	
13		0.1		dense clay	
14				refusal @ 13'	
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

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TOC = TOP OF CASING
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FILE NAME:	DATE:
	PROJECT NO.:
ENVIRONMENTAL STANDARDS	DRAWN BY: / APRV'D BY:
	CHEK'D BY: / REVISION:

	SOIL BORING # SB09	PAGE 1 OF 1
DRILLING COMPANY: Geo-Environmental	DATE COMPLETED: 8-11-20	
DRILL RIG:	WATER DEPTH – dry	
DRILLING METHOD: Geoprobe	LOGGED BY: L. Mistick	
TOTAL DEPTH: 21'	TOIC ELEVATION:	

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0		0.0		gravel	
1				~~VOID~~	
2		0.1		hard red/orange clay w/ glass	
3		~~0.0~~		~~gravel~~ VOID 2-4'	no odor
4		~~0.1~~		~~hard red/orange clay w/ glass~~	
5					
6				Empty	
7					
8					
9		0.0		~6" of gravel returned	
10					
11					
12					
13				Empty	
14					
15					
16		0.2		grey clay	
17		0.1		grey & red sandy clay w/ glass	Sampled 16-20' @ 1415
18		0.1		moist	
19		0.0			
20		0.0		sandy clay, hard & compact (orange, brn, ~~wh~~ white)	
21				refusal @ 21'	
22					
23					
24					
25					

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TOC = TOP OF CASING
M.S.L. = MEAN SEA LEVEL

FILE NAME:	DATE:	
	PROJECT NO.:	
ENVIRONMENTAL STANDARDS	DRAWN BY: / APRV'D BY:	
	CHEK'D BY: / REVISION:	

	SOIL BORING # SB-10	PAGE 1 OF 1
DRILLING COMPANY: GeoEnvironmental	DATE COMPLETED: 8-11-20	
DRILL RIG:	WATER DEPTH ~15'-16'	
DRILLING METHOD: Geoprobe	LOGGED BY: L. Mistuk	
TOTAL DEPTH: 16'	TOIC ELEVATION:	

DEPTH (FT. BGS)	PERCENT RECOVERY	PID READING PPM	BORING LOG DETAIL	LITHOLOGIC DESCRIPTION	REMARKS
0					
1		0.0		gravel	
		0.1			Sampled 0-2@ 1330
2		~~0.3~~	0.3	Dense red clay & loam	
3		0.1		sandy clay, gravel	
4					
5		0.1		grey, gravelley	no odors
		0.1			
6					
7		0.1		red clay	
		0.2			
8					
9		0.0		Red clay	
		0.0		gravel	
10					
11		0.1		red clay	
		0.0		red clay, dry	
12					
13		0.1		gravel &	
		0.0		clay	
14					
15		0.0		wet orange sand	sampled 14-16@1350
		0.1			
16				refusal @16'	
17					
18					
19					
20					
21					
22					
23					
24					
25					

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TOC = TOP OF CASING
M.S.L. = MEAN SEA LEVEL

FILE NAME:	DATE:
	PROJECT NO.:
ENVIRONMENTAL STANDARDS	DRAWN BY: / APRV'D BY:
	CHEK'D BY: / REVISION:

APPENDIX B

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 12, 2020

Leah Mistick
Environmental Standards, Inc.
1140 Valley Forge Road
Valley Forge, PA 19482

RE: Project: Speedway ESA VRP
Pace Project No.: 30377174

Dear Leah Mistick:

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Greensburg

Revision 1 - This report replaces the August, 24, 2020 report. This project was revised on October, 12, 2020 to add narration of lab contamination. (Greensburg, PA)

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Megan Smetanka

Megan J. Smetanka
megan.smetanka@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Ms. Lydia Work, Environmental Standards, Inc.

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375

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CERTIFICATIONS

Project:	Speedway ESA VRP
Pace Project No.:	30377174

Pace Analytical Services National

North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

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Greensburg, PA 15601
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SAMPLE SUMMARY

Project: Speedway ESA VRP
Pace Project No.: 30377174

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30377174001	**SB01 (0-2)**	Solid	08/11/20 09:05	08/12/20 14:35
30377174002	**SB01 (4-8)**	Solid	08/11/20 09:30	08/12/20 14:35
30377174003	**SB02 (0-2)**	Solid	08/11/20 10:20	08/12/20 14:35
30377174004	**SB02 (0-2)-FD**	Solid	08/11/20 10:20	08/12/20 14:35
30377174005	**SB02 (14-15)**	Solid	08/11/20 10:50	08/12/20 14:35
30377174006	**SB07 (0-2)**	Solid	08/11/20 11:25	08/12/20 14:35
30377174007	**SB07 (20-24)**	Solid	08/11/20 12:05	08/12/20 14:35
30377174008	**SB07 (20-24)-FD**	Solid	08/11/20 12:05	08/12/20 14:35
30377174009	**SB10 (0-2)**	Solid	08/11/20 13:30	08/12/20 14:35
30377174010	**SB10 (14-16)**	Solid	08/11/20 13:50	08/12/20 14:35
30377174011	**SB09 (0-2)**	Solid	08/11/20 14:00	08/12/20 14:35
30377174012	**SB09 (16-20)**	Solid	08/11/20 14:15	08/12/20 14:35
30377174013	**SB08 (0-2)**	Solid	08/11/20 14:40	08/12/20 14:35
30377174014	**SB08 (8-12)**	Solid	08/11/20 14:50	08/12/20 14:35
30377174015	**SB03 (0-2)**	Solid	08/11/20 15:10	08/12/20 14:35
30377174016	**SB03 (12-15)**	Solid	08/11/20 15:25	08/12/20 14:35
30377174017	**SB06 (0-2)**	Solid	08/11/20 15:45	08/12/20 14:35
30377174018	**SB06 (16-20)**	Solid	08/11/20 16:05	08/12/20 14:35
30377174019	**SB04 (0-4)**	Solid	08/11/20 16:35	08/12/20 14:35
30377174020	**SB04 (20-24)**	Solid	08/11/20 17:00	08/12/20 14:35
30377174021	**SB05 (0-2)**	Solid	08/11/20 17:15	08/12/20 14:35
30377174022	**SB05 (16-20)**	Solid	08/11/20 17:35	08/12/20 14:35
30377174023	**Trip Blank**	Water	08/11/20 00:01	08/12/20 14:35

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Speedway ESA VRP
Pace Project No.: 30377174

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30377174001	**SB01 (0-2)**	EPA 6010D	CTS	8	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174002	**SB01 (4-8)**	EPA 6010D	CTS	8	PASI-PA
		EPA 6010D	CTS	8	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		EPA 8260C	JEW	55	PASI-PA
		EPA 8260C	ARG, JEW	55	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174003	**SB02 (0-2)**	EPA 6010D	CTS	8	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174004	**SB02 (0-2)-FD**	EPA 6010D	CTS	8	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174005	**SB02 (14-15)**	EPA 6010D	CTS	8	PASI-PA
		EPA 6010D	CTS	8	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		EPA 8260C	JEW	55	PASI-PA
		EPA 8260C	JEW	55	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174006	**SB07 (0-2)**	EPA 6010D	CTS	8	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		ASTM D2974-87	NLD	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Speedway ESA VRP
Pace Project No.: 30377174

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540G	KBC	1	PAN
30377174007	**SB07 (20-24)**	EPA 6010D	CTS	8	PASI-PA
		EPA 6010D	CTS	8	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		EPA 8260C	JEW	55	PASI-PA
		EPA 8260C	JEW	55	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174008	**SB07 (20-24)-FD**	EPA 6010D	CTS	8	PASI-PA
		EPA 6010D	CTS	8	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		EPA 8260C	JEW	55	PASI-PA
		EPA 8260C	JEW	55	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174009	**SB10 (0-2)**	EPA 6010D	CTS	8	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174010	**SB10 (14-16)**	EPA 6010D	CTS	8	PASI-PA
		EPA 6010D	CTS	8	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		EPA 8260C	JEW	55	PASI-PA
		EPA 8260C	JEW	55	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174011	**SB09 (0-2)**	EPA 6010D	CTS	8	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		ASTM D2974-87	NLD	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Speedway ESA VRP
Pace Project No.: 30377174

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540G	KBC	1	PAN
30377174012	**SB09 (16-20)**	EPA 6010D	CTS	8	PASI-PA
		EPA 6010D	CTS	8	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		EPA 8260C	JEW	55	PASI-PA
		EPA 8260C	JEW	55	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174013	**SB08 (0-2)**	EPA 6010D	CTS	8	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174014	**SB08 (8-12)**	EPA 6010D	CTS	8	PASI-PA
		EPA 6010D	CTS	8	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		EPA 8260C	JEW	55	PASI-PA
		EPA 8260C	JEW	55	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174015	**SB03 (0-2)**	EPA 6010D	CTS	8	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174016	**SB03 (12-15)**	EPA 6010D	CTS	8	PASI-PA
		EPA 6010D	CTS	8	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		EPA 8260C	JEW	55	PASI-PA
		EPA 8260C	JEW	55	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Speedway ESA VRP
Pace Project No.: 30377174

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540G	KBC	1	PAN
30377174017	**SB06 (0-2)**	EPA 6010D	CTS	8	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174018	**SB06 (16-20)**	EPA 6010D	CTS	8	PASI-PA
		EPA 6010D	CTS	8	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		EPA 8260C	JEW	55	PASI-PA
		EPA 8260C	JEW	55	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174019	**SB04 (0-4)**	EPA 6010D	CTS	8	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174020	**SB04 (20-24)**	EPA 6010D	CTS	8	PASI-PA
		EPA 6010D	CTS	8	PASI-PA
		EPA 7470A	KAS	1	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		EPA 8260C	JEW	55	PASI-PA
		EPA 8260C	JEW	55	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174021	**SB05 (0-2)**	EPA 6010D	CTS	8	PASI-PA
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174022	**SB05 (16-20)**	EPA 6010D	CTS	8	PASI-PA
		EPA 6010D	CTS	8	PASI-PA
		EPA 7470A	KAS	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Speedway ESA VRP
Pace Project No.: 30377174

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7471A	KAS	1	PASI-PA
		EPA 8270E by SIM	AAT	21	PAN
		EPA 8260C	JEW	55	PASI-PA
		EPA 8260C	JEW	55	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
		SM 2540G	KBC	1	PAN
30377174023	**Trip Blank**	EPA 8260C	JAS	55	PASI-PA

PAN = Pace National - Mt. Juliet
PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (0-2) **Lab ID: 30377174001** Collected: 08/11/20 09:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**4.7**	mg/kg	1.0	0.40	1	08/17/20 10:08	08/19/20 08:50	7440-38-2	
Barium	**98.7**	mg/kg	2.0	0.13	1	08/17/20 10:08	08/19/20 08:50	7440-39-3	
Cadmium	**0.23J**	mg/kg	0.30	0.046	1	08/17/20 10:08	08/19/20 08:50	7440-43-9	
Chromium	**15.8**	mg/kg	1.0	0.77	1	08/17/20 10:08	08/19/20 08:50	7440-47-3	
Lead	**44.7**	mg/kg	1.0	0.46	1	08/17/20 10:08	08/19/20 08:50	7439-92-1	
Selenium	**<0.61**	mg/kg	1.6	0.61	1	08/17/20 10:08	08/19/20 08:50	7782-49-2	
Silver	**<0.086**	mg/kg	0.61	0.086	1	08/17/20 10:08	08/19/20 08:50	7440-22-4	
Zinc	**116**	mg/kg	2.0	1.1	1	08/17/20 10:08	08/19/20 08:50	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.093J**	mg/kg	0.12	0.0057	1	08/17/20 11:58	08/17/20 21:50	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**0.431**	mg/kg	0.00711	0.00273	1	08/17/20 20:48	08/18/20 08:06	120-12-7	
Acenaphthene	**0.122**	mg/kg	0.00711	0.00248	1	08/17/20 20:48	08/18/20 08:06	83-32-9	
Acenaphthylene	**<0.00256**	mg/kg	0.00711	0.00256	1	08/17/20 20:48	08/18/20 08:06	208-96-8	
Benzo(a)anthracene	**0.921**	mg/kg	0.00711	0.00205	1	08/17/20 20:48	08/18/20 08:06	56-55-3	
Benzo(a)pyrene	**0.626**	mg/kg	0.00711	0.00212	1	08/17/20 20:48	08/18/20 08:06	50-32-8	
Benzo(b)fluoranthene	**0.823**	mg/kg	0.00711	0.00181	1	08/17/20 20:48	08/18/20 08:06	205-99-2	
Benzo(g,h,i)perylene	**0.350**	mg/kg	0.00711	0.00210	1	08/17/20 20:48	08/18/20 08:06	191-24-2	
Benzo(k)fluoranthene	**0.284**	mg/kg	0.00711	0.00255	1	08/17/20 20:48	08/18/20 08:06	207-08-9	
Chrysene	**0.769**	mg/kg	0.00711	0.00275	1	08/17/20 20:48	08/18/20 08:06	218-01-9	
Dibenz(a,h)anthracene	**0.132**	mg/kg	0.00711	0.00204	1	08/17/20 20:48	08/18/20 08:06	53-70-3	
Fluoranthene	**1.73**	mg/kg	0.00711	0.00269	1	08/17/20 20:48	08/18/20 08:06	206-44-0	
Fluorene	**0.145**	mg/kg	0.00711	0.00243	1	08/17/20 20:48	08/18/20 08:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.338**	mg/kg	0.00711	0.00215	1	08/17/20 20:48	08/18/20 08:06	193-39-5	
Naphthalene	**0.0377**	mg/kg	0.0237	0.00484	1	08/17/20 20:48	08/18/20 08:06	91-20-3	
Phenanthrene	**1.20**	mg/kg	0.00711	0.00274	1	08/17/20 20:48	08/18/20 08:06	85-01-8	
Pyrene	**1.36**	mg/kg	0.00711	0.00237	1	08/17/20 20:48	08/18/20 08:06	129-00-0	
1-Methylnaphthalene	**0.0563**	mg/kg	0.0237	0.00532	1	08/17/20 20:48	08/18/20 08:06	90-12-0	
2-Methylnaphthalene	**0.0737**	mg/kg	0.0237	0.00506	1	08/17/20 20:48	08/18/20 08:06	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	89.8	%	14.0-149		1	08/17/20 20:48	08/18/20 08:06	4165-60-0	
2-Fluorobiphenyl (S)	83.6	%	34.0-125		1	08/17/20 20:48	08/18/20 08:06	321-60-8	
Terphenyl-d14 (S)	89.6	%	23.0-120		1	08/17/20 20:48	08/18/20 08:06	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**14.7**	%	0.10	0.10	1		08/14/20 11:01		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (0-2) **Lab ID: 30377174001** Collected: 08/11/20 09:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**84.4**	%			1	08/19/20 14:47	08/19/20 14:55		

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**6.3**	mg/kg	1.2	0.45	1	08/17/20 10:08	08/19/20 08:53	7440-38-2	
Barium	**86.7**	mg/kg	2.3	0.15	1	08/17/20 10:08	08/19/20 08:53	7440-39-3	
Cadmium	**0.12J**	mg/kg	0.35	0.053	1	08/17/20 10:08	08/19/20 08:53	7440-43-9	
Chromium	**22.1**	mg/kg	1.2	0.88	1	08/17/20 10:08	08/19/20 08:53	7440-47-3	
Lead	**17.2**	mg/kg	1.2	0.52	1	08/17/20 10:08	08/19/20 08:53	7439-92-1	
Selenium	**<0.70**	mg/kg	1.9	0.70	1	08/17/20 10:08	08/19/20 08:53	7782-49-2	
Silver	**<0.099**	mg/kg	0.70	0.099	1	08/17/20 10:08	08/19/20 08:53	7440-22-4	
Zinc	**49.9**	mg/kg	2.3	1.3	1	08/17/20 10:08	08/19/20 08:53	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 7.67 Pace Analytical Services - Greensburg								
Arsenic	**<0.0033**	mg/L	0.025	0.0033	1	08/19/20 12:07	08/21/20 08:25	7440-38-2	2c
Barium	**0.044J**	mg/L	0.050	0.00055	1	08/19/20 12:07	08/21/20 08:25	7440-39-3	2c,B
Cadmium	**0.00032J**	mg/L	0.015	0.00027	1	08/19/20 12:07	08/21/20 08:25	7440-43-9	2c
Chromium	**0.0062J**	mg/L	0.025	0.00067	1	08/19/20 12:07	08/21/20 08:25	7440-47-3	2c,B
Lead	**<0.0031**	mg/L	0.025	0.0031	1	08/19/20 12:07	08/21/20 08:25	7439-92-1	2c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/19/20 12:07	08/21/20 08:25	7782-49-2	2c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/19/20 12:07	08/21/20 08:25	7440-22-4	2c
Zinc	**0.012J**	mg/L	0.025	0.0034	1	08/19/20 12:07	08/21/20 08:25	7440-66-6	2c,B
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 7.67 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/19/20 14:17	08/19/20 22:38	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.030J**	mg/kg	0.12	0.0059	1	08/17/20 11:58	08/17/20 21:51	7439-97-6	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**<0.00283**	mg/kg	0.00737	0.00283	1	08/17/20 20:48	08/18/20 03:58	120-12-7	
Acenaphthene	**<0.00257**	mg/kg	0.00737	0.00257	1	08/17/20 20:48	08/18/20 03:58	83-32-9	
Acenaphthylene	**<0.00265**	mg/kg	0.00737	0.00265	1	08/17/20 20:48	08/18/20 03:58	208-96-8	
Benzo(a)anthracene	**<0.00213**	mg/kg	0.00737	0.00213	1	08/17/20 20:48	08/18/20 03:58	56-55-3	
Benzo(a)pyrene	**<0.00220**	mg/kg	0.00737	0.00220	1	08/17/20 20:48	08/18/20 03:58	50-32-8	
Benzo(b)fluoranthene	**<0.00188**	mg/kg	0.00737	0.00188	1	08/17/20 20:48	08/18/20 03:58	205-99-2	
Benzo(g,h,i)perylene	**<0.00218**	mg/kg	0.00737	0.00218	1	08/17/20 20:48	08/18/20 03:58	191-24-2	
Benzo(k)fluoranthene	**<0.00264**	mg/kg	0.00737	0.00264	1	08/17/20 20:48	08/18/20 03:58	207-08-9	
Chrysene	**<0.00285**	mg/kg	0.00737	0.00285	1	08/17/20 20:48	08/18/20 03:58	218-01-9	
Dibenz(a,h)anthracene	**<0.00211**	mg/kg	0.00737	0.00211	1	08/17/20 20:48	08/18/20 03:58	53-70-3	
Fluoranthene	**<0.00279**	mg/kg	0.00737	0.00279	1	08/17/20 20:48	08/18/20 03:58	206-44-0	
Fluorene	**<0.00252**	mg/kg	0.00737	0.00252	1	08/17/20 20:48	08/18/20 03:58	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00222**	mg/kg	0.00737	0.00222	1	08/17/20 20:48	08/18/20 03:58	193-39-5	
Naphthalene	**<0.00501**	mg/kg	0.0246	0.00501	1	08/17/20 20:48	08/18/20 03:58	91-20-3	
Phenanthrene	**<0.00284**	mg/kg	0.00737	0.00284	1	08/17/20 20:48	08/18/20 03:58	85-01-8	
Pyrene	**<0.00246**	mg/kg	0.00737	0.00246	1	08/17/20 20:48	08/18/20 03:58	129-00-0	
1-Methylnaphthalene	**<0.00552**	mg/kg	0.0246	0.00552	1	08/17/20 20:48	08/18/20 03:58	90-12-0	
2-Methylnaphthalene	**<0.00525**	mg/kg	0.0246	0.00525	1	08/17/20 20:48	08/18/20 03:58	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	96.5	%	14.0-149		1	08/17/20 20:48	08/18/20 03:58	4165-60-0	
2-Fluorobiphenyl (S)	91.7	%	34.0-125		1	08/17/20 20:48	08/18/20 03:58	321-60-8	
Terphenyl-d14 (S)	93.7	%	23.0-120		1	08/17/20 20:48	08/18/20 03:58	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 8.52								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 11:46	120-12-7	
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 11:46	83-32-9	
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 11:46	208-96-8	
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 11:46	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 11:46	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 11:46	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 11:46	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 11:46	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 11:46	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 11:46	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 11:46	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 11:46	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 11:46	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 11:46	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 11:46	85-01-8	
Pyrene	**0.0383J**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 11:46	129-00-0	J
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 11:46	90-12-0	

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(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 8.52								
	Pace National - Mt. Juliet								
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 11:46	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	140	%	31.0-160		2	08/21/20 07:13	08/21/20 11:46	4165-60-0	
2-Fluorobiphenyl (S)	109	%	48.0-148		2	08/21/20 07:13	08/21/20 11:46	321-60-8	
Terphenyl-d14 (S)	48.9	%	37.0-146		2	08/21/20 07:13	08/21/20 11:46	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**44.9**	ug/kg	10.1	3.2	1	08/19/20 12:46	08/19/20 23:41	67-64-1	
Benzene	**<0.88**	ug/kg	5.0	0.88	1	08/19/20 12:46	08/19/20 23:41	71-43-2	
Bromodichloromethane	**<1.1**	ug/kg	5.0	1.1	1	08/19/20 12:46	08/19/20 23:41	75-27-4	
Bromoform	**<0.67**	ug/kg	5.0	0.67	1	08/19/20 12:46	08/19/20 23:41	75-25-2	
Bromomethane	**<1.9**	ug/kg	5.0	1.9	1	08/19/20 12:46	08/19/20 23:41	74-83-9	1c
2-Butanone (MEK)	**<0.92**	ug/kg	10.1	0.92	1	08/19/20 12:46	08/19/20 23:41	78-93-3	
Carbon disulfide	**<1.4**	ug/kg	5.0	1.4	1	08/19/20 12:46	08/19/20 23:41	75-15-0	
Carbon tetrachloride	**<1.7**	ug/kg	5.0	1.7	1	08/19/20 12:46	08/19/20 23:41	56-23-5	
Chlorobenzene	**<0.79**	ug/kg	5.0	0.79	1	08/19/20 12:46	08/19/20 23:41	108-90-7	
Chloroethane	**<2.1**	ug/kg	5.0	2.1	1	08/19/20 12:46	08/19/20 23:41	75-00-3	
Chloroform	**<1.5**	ug/kg	5.0	1.5	1	08/19/20 12:46	08/19/20 23:41	67-66-3	
Chloromethane	**<1.7**	ug/kg	5.0	1.7	1	08/19/20 12:46	08/19/20 23:41	74-87-3	
Cyclohexane	**<1.9**	ug/kg	10.1	1.9	1	08/19/20 12:46	08/19/20 23:41	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.2**	ug/kg	5.0	1.2	1	08/19/20 12:46	08/19/20 23:41	96-12-8	
Dibromochloromethane	**<0.80**	ug/kg	5.0	0.80	1	08/19/20 12:46	08/19/20 23:41	124-48-1	
1,2-Dibromoethane (EDB)	**<0.81**	ug/kg	5.0	0.81	1	08/19/20 12:46	08/19/20 23:41	106-93-4	
1,2-Dichlorobenzene	**<0.59**	ug/kg	5.0	0.59	1	08/19/20 12:46	08/19/20 23:41	95-50-1	
1,3-Dichlorobenzene	**<0.66**	ug/kg	5.0	0.66	1	08/19/20 12:46	08/19/20 23:41	541-73-1	
1,4-Dichlorobenzene	**<0.72**	ug/kg	5.0	0.72	1	08/19/20 12:46	08/19/20 23:41	106-46-7	
Dichlorodifluoromethane	**<2.7**	ug/kg	5.0	2.7	1	08/19/20 12:46	08/19/20 23:41	75-71-8	
1,1-Dichloroethane	**<1.3**	ug/kg	5.0	1.3	1	08/19/20 12:46	08/19/20 23:41	75-34-3	
1,2-Dichloroethane	**<1.3**	ug/kg	5.0	1.3	1	08/19/20 12:46	08/19/20 23:41	107-06-2	
1,1-Dichloroethene	**<1.9**	ug/kg	5.0	1.9	1	08/19/20 12:46	08/19/20 23:41	75-35-4	
cis-1,2-Dichloroethene	**<1.2**	ug/kg	5.0	1.2	1	08/19/20 12:46	08/19/20 23:41	156-59-2	
trans-1,2-Dichloroethene	**<1.3**	ug/kg	5.0	1.3	1	08/19/20 12:46	08/19/20 23:41	156-60-5	
1,2-Dichloropropane	**<0.73**	ug/kg	5.0	0.73	1	08/19/20 12:46	08/19/20 23:41	78-87-5	
cis-1,3-Dichloropropene	**<0.50**	ug/kg	5.0	0.50	1	08/19/20 12:46	08/19/20 23:41	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/kg	5.0	1.0	1	08/19/20 12:46	08/19/20 23:41	10061-02-6	
Ethylbenzene	**<1.1**	ug/kg	5.0	1.1	1	08/19/20 12:46	08/19/20 23:41	100-41-4	
2-Hexanone	**<0.99**	ug/kg	10.1	0.99	1	08/19/20 12:46	08/19/20 23:41	591-78-6	
Isopropylbenzene (Cumene)	**<1.2**	ug/kg	5.0	1.2	1	08/19/20 12:46	08/19/20 23:41	98-82-8	
Methyl acetate	**<1.1**	ug/kg	50.4	1.1	1	08/19/20 12:46	08/19/20 23:41	79-20-9	1c
Methylcyclohexane	**<3.1**	ug/kg	10.1	3.1	1	08/19/20 12:46	08/19/20 23:41	108-87-2	
Methylene Chloride	**<4.2**	ug/kg	5.0	4.2	1	08/19/20 12:46	08/19/20 23:41	75-09-2	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
4-Methyl-2-pentanone (MIBK)	**<1.1**	ug/kg	10.1	1.1	1	08/19/20 12:46	08/19/20 23:41	108-10-1	
Methyl-tert-butyl ether	**<0.68**	ug/kg	5.0	0.68	1	08/19/20 12:46	08/19/20 23:41	1634-04-4	
Styrene	**<1.5**	ug/kg	5.0	1.5	1	08/19/20 12:46	08/19/20 23:41	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.59**	ug/kg	5.0	0.59	1	08/19/20 12:46	08/19/20 23:41	79-34-5	
Tetrachloroethene	**<1.7**	ug/kg	5.0	1.7	1	08/19/20 12:46	08/19/20 23:41	127-18-4	
Toluene	**<1.0**	ug/kg	5.0	1.0	1	08/19/20 12:46	08/19/20 23:41	108-88-3	
1,2,3-Trichlorobenzene	**<0.96**	ug/kg	5.0	0.96	1	08/19/20 12:46	08/19/20 23:41	87-61-6	
1,2,4-Trichlorobenzene	**<1.3**	ug/kg	5.0	1.3	1	08/19/20 12:46	08/19/20 23:41	120-82-1	
1,1,1-Trichloroethane	**<1.5**	ug/kg	5.0	1.5	1	08/19/20 12:46	08/19/20 23:41	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/kg	5.0	1.0	1	08/19/20 12:46	08/19/20 23:41	79-00-5	
Trichloroethene	**<1.5**	ug/kg	5.0	1.5	1	08/19/20 12:46	08/19/20 23:41	79-01-6	
Trichlorofluoromethane	**<2.2**	ug/kg	5.0	2.2	1	08/19/20 12:46	08/19/20 23:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<2.2**	ug/kg	50.4	2.2	1	08/19/20 12:46	08/19/20 23:41	76-13-1	
1,2,4-Trimethylbenzene	**<2.5**	ug/kg	5.0	2.5	1	08/19/20 12:46	08/19/20 23:41	95-63-6	
1,3,5-Trimethylbenzene	**<2.0**	ug/kg	5.0	2.0	1	08/19/20 12:46	08/19/20 23:41	108-67-8	
Vinyl chloride	**<2.2**	ug/kg	5.0	2.2	1	08/19/20 12:46	08/19/20 23:41	75-01-4	
Xylene (Total)	**<3.2**	ug/kg	15.1	3.2	1	08/19/20 12:46	08/19/20 23:41	1330-20-7	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	08/19/20 12:46	08/19/20 23:41	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	08/19/20 12:46	08/19/20 23:41	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	08/19/20 12:46	08/19/20 23:41	17060-07-0	
Dibromofluoromethane (S)	105	%.	70-130		1	08/19/20 12:46	08/19/20 23:41	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
Acetone	**13500**	ug/L	1000	318	100		08/19/20 12:04	67-64-1	C7,ML
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/18/20 18:24	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/18/20 18:24	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/18/20 18:24	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/18/20 18:24	74-83-9	1c
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/18/20 18:24	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/18/20 18:24	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/18/20 18:24	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/18/20 18:24	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/18/20 18:24	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/18/20 18:24	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/18/20 18:24	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/18/20 18:24	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/18/20 18:24	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/18/20 18:24	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/18/20 18:24	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/18/20 18:24	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/18/20 18:24	541-73-1	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/18/20 18:24	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/18/20 18:24	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/18/20 18:24	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/18/20 18:24	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/18/20 18:24	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/18/20 18:24	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 18:24	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/18/20 18:24	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/18/20 18:24	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/18/20 18:24	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/18/20 18:24	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/18/20 18:24	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/18/20 18:24	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/18/20 18:24	79-20-9	1c
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/18/20 18:24	108-87-2	
Methylene Chloride	**157**	ug/L	50.0	41.9	10		08/18/20 18:24	75-09-2	C7
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/18/20 18:24	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/18/20 18:24	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/18/20 18:24	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/18/20 18:24	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/18/20 18:24	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/18/20 18:24	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/18/20 18:24	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 18:24	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/18/20 18:24	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/18/20 18:24	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/18/20 18:24	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/18/20 18:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/18/20 18:24	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/18/20 18:24	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/18/20 18:24	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/18/20 18:24	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/18/20 18:24	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	107	%.	70-130		10		08/18/20 18:24	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		08/18/20 18:24	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		08/18/20 18:24	460-00-4	
Dibromofluoromethane (S)	101	%.	70-130		10		08/18/20 18:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**20.4**	%	0.10	0.10	1		08/14/20 11:01		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**81.4**	%			1	08/19/20 14:47	08/19/20 14:55		

Sample: SB02 (0-2) **Lab ID: 30377174003** Collected: 08/11/20 10:20 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**12.3**	mg/kg	1.1	0.42	1	08/17/20 10:08	08/19/20 08:56	7440-38-2	
Barium	**102**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 08:56	7440-39-3	
Cadmium	**0.10J**	mg/kg	0.32	0.049	1	08/17/20 10:08	08/19/20 08:56	7440-43-9	
Chromium	**26.1**	mg/kg	1.1	0.81	1	08/17/20 10:08	08/19/20 08:56	7440-47-3	
Lead	**16.9**	mg/kg	1.1	0.48	1	08/17/20 10:08	08/19/20 08:56	7439-92-1	
Selenium	**<0.64**	mg/kg	1.7	0.64	1	08/17/20 10:08	08/19/20 08:56	7782-49-2	
Silver	**<0.091**	mg/kg	0.64	0.091	1	08/17/20 10:08	08/19/20 08:56	7440-22-4	
Zinc	**56.0**	mg/kg	2.1	1.2	1	08/17/20 10:08	08/19/20 08:56	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.067J**	mg/kg	0.12	0.0061	1	08/17/20 11:58	08/17/20 21:53	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00285**	mg/kg	0.00742	0.00285	1	08/17/20 20:48	08/18/20 04:18	120-12-7	
Acenaphthene	**<0.00259**	mg/kg	0.00742	0.00259	1	08/17/20 20:48	08/18/20 04:18	83-32-9	
Acenaphthylene	**<0.00267**	mg/kg	0.00742	0.00267	1	08/17/20 20:48	08/18/20 04:18	208-96-8	
Benzo(a)anthracene	**0.00286J**	mg/kg	0.00742	0.00214	1	08/17/20 20:48	08/18/20 04:18	56-55-3	J
Benzo(a)pyrene	**0.00228J**	mg/kg	0.00742	0.00221	1	08/17/20 20:48	08/18/20 04:18	50-32-8	J
Benzo(b)fluoranthene	**0.00278J**	mg/kg	0.00742	0.00189	1	08/17/20 20:48	08/18/20 04:18	205-99-2	J
Benzo(g,h,i)perylene	**<0.00219**	mg/kg	0.00742	0.00219	1	08/17/20 20:48	08/18/20 04:18	191-24-2	
Benzo(k)fluoranthene	**<0.00266**	mg/kg	0.00742	0.00266	1	08/17/20 20:48	08/18/20 04:18	207-08-9	
Chrysene	**<0.00287**	mg/kg	0.00742	0.00287	1	08/17/20 20:48	08/18/20 04:18	218-01-9	
Dibenz(a,h)anthracene	**<0.00213**	mg/kg	0.00742	0.00213	1	08/17/20 20:48	08/18/20 04:18	53-70-3	
Fluoranthene	**0.00599J**	mg/kg	0.00742	0.00281	1	08/17/20 20:48	08/18/20 04:18	206-44-0	J
Fluorene	**<0.00254**	mg/kg	0.00742	0.00254	1	08/17/20 20:48	08/18/20 04:18	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00224**	mg/kg	0.00742	0.00224	1	08/17/20 20:48	08/18/20 04:18	193-39-5	
Naphthalene	**<0.00505**	mg/kg	0.0247	0.00505	1	08/17/20 20:48	08/18/20 04:18	91-20-3	
Phenanthrene	**0.00382J**	mg/kg	0.00742	0.00286	1	08/17/20 20:48	08/18/20 04:18	85-01-8	J
Pyrene	**0.00468J**	mg/kg	0.00742	0.00247	1	08/17/20 20:48	08/18/20 04:18	129-00-0	J
1-Methylnaphthalene	**<0.00556**	mg/kg	0.0247	0.00556	1	08/17/20 20:48	08/18/20 04:18	90-12-0	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (0-2) **Lab ID: 30377174003** Collected: 08/11/20 10:20 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
2-Methylnaphthalene	**<0.00528**	mg/kg	0.0247	0.00528	1	08/17/20 20:48	08/18/20 04:18	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	96.6	%	14.0-149		1	08/17/20 20:48	08/18/20 04:18	4165-60-0	
2-Fluorobiphenyl (S)	89.9	%	34.0-125		1	08/17/20 20:48	08/18/20 04:18	321-60-8	
Terphenyl-d14 (S)	90.9	%	23.0-120		1	08/17/20 20:48	08/18/20 04:18	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**19.2**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**80.8**	%			1	08/19/20 14:47	08/19/20 14:55		

Sample: SB02 (0-2)-FD **Lab ID: 30377174004** Collected: 08/11/20 10:20 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**11.0**	mg/kg	1.1	0.42	1	08/17/20 10:08	08/19/20 08:59	7440-38-2	
Barium	**105**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 08:59	7440-39-3	
Cadmium	**0.094J**	mg/kg	0.32	0.049	1	08/17/20 10:08	08/19/20 08:59	7440-43-9	
Chromium	**27.3**	mg/kg	1.1	0.81	1	08/17/20 10:08	08/19/20 08:59	7440-47-3	
Lead	**15.9**	mg/kg	1.1	0.48	1	08/17/20 10:08	08/19/20 08:59	7439-92-1	
Selenium	**<0.64**	mg/kg	1.7	0.64	1	08/17/20 10:08	08/19/20 08:59	7782-49-2	
Silver	**<0.091**	mg/kg	0.64	0.091	1	08/17/20 10:08	08/19/20 08:59	7440-22-4	
Zinc	**55.4**	mg/kg	2.1	1.2	1	08/17/20 10:08	08/19/20 08:59	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A								
	Pace Analytical Services - Greensburg								
Mercury	**0.088J**	mg/kg	0.12	0.0061	1	08/17/20 11:58	08/17/20 21:54	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**0.00472J**	mg/kg	0.00768	0.00294	1	08/17/20 20:48	08/18/20 04:39	120-12-7	J
Acenaphthene	**<0.00267**	mg/kg	0.00768	0.00267	1	08/17/20 20:48	08/18/20 04:39	83-32-9	
Acenaphthylene	**<0.00276**	mg/kg	0.00768	0.00276	1	08/17/20 20:48	08/18/20 04:39	208-96-8	
Benzo(a)anthracene	**0.00652J**	mg/kg	0.00768	0.00221	1	08/17/20 20:48	08/18/20 04:39	56-55-3	J
Benzo(a)pyrene	**0.00450J**	mg/kg	0.00768	0.00229	1	08/17/20 20:48	08/18/20 04:39	50-32-8	J
Benzo(b)fluoranthene	**0.00591J**	mg/kg	0.00768	0.00196	1	08/17/20 20:48	08/18/20 04:39	205-99-2	J

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (0-2)-FD **Lab ID: 30377174004** Collected: 08/11/20 10:20 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Benzo(g,h,i)perylene	**0.00289J**	mg/kg	0.00768	0.00226	1	08/17/20 20:48	08/18/20 04:39	191-24-2	J
Benzo(k)fluoranthene	**<0.00275**	mg/kg	0.00768	0.00275	1	08/17/20 20:48	08/18/20 04:39	207-08-9	
Chrysene	**0.00559J**	mg/kg	0.00768	0.00297	1	08/17/20 20:48	08/18/20 04:39	218-01-9	J
Dibenz(a,h)anthracene	**<0.00220**	mg/kg	0.00768	0.00220	1	08/17/20 20:48	08/18/20 04:39	53-70-3	
Fluoranthene	**0.0146**	mg/kg	0.00768	0.00290	1	08/17/20 20:48	08/18/20 04:39	206-44-0	
Fluorene	**0.00271J**	mg/kg	0.00768	0.00262	1	08/17/20 20:48	08/18/20 04:39	86-73-7	J
Indeno(1,2,3-cd)pyrene	**0.00271J**	mg/kg	0.00768	0.00232	1	08/17/20 20:48	08/18/20 04:39	193-39-5	J
Naphthalene	**<0.00522**	mg/kg	0.0256	0.00522	1	08/17/20 20:48	08/18/20 04:39	91-20-3	
Phenanthrene	**0.0159**	mg/kg	0.00768	0.00296	1	08/17/20 20:48	08/18/20 04:39	85-01-8	
Pyrene	**0.0109**	mg/kg	0.00768	0.00256	1	08/17/20 20:48	08/18/20 04:39	129-00-0	
1-Methylnaphthalene	**<0.00574**	mg/kg	0.0256	0.00574	1	08/17/20 20:48	08/18/20 04:39	90-12-0	
2-Methylnaphthalene	**<0.00546**	mg/kg	0.0256	0.00546	1	08/17/20 20:48	08/18/20 04:39	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	97.4	%	14.0-149		1	08/17/20 20:48	08/18/20 04:39	4165-60-0	
2-Fluorobiphenyl (S)	90.3	%	34.0-125		1	08/17/20 20:48	08/18/20 04:39	321-60-8	
Terphenyl-d14 (S)	88.9	%	23.0-120		1	08/17/20 20:48	08/18/20 04:39	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**19.3**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**78.2**	%			1	08/19/20 14:47	08/19/20 14:55		

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**4.4**	mg/kg	1.3	0.52	1	08/17/20 10:08	08/19/20 09:02	7440-38-2	
Barium	**145**	mg/kg	2.6	0.17	1	08/17/20 10:08	08/19/20 09:02	7440-39-3	
Cadmium	**0.10J**	mg/kg	0.40	0.061	1	08/17/20 10:08	08/19/20 09:02	7440-43-9	
Chromium	**26.9**	mg/kg	1.3	1.0	1	08/17/20 10:08	08/19/20 09:02	7440-47-3	
Lead	**19.5**	mg/kg	1.3	0.60	1	08/17/20 10:08	08/19/20 09:02	7439-92-1	
Selenium	**<0.79**	mg/kg	2.1	0.79	1	08/17/20 10:08	08/19/20 09:02	7782-49-2	
Silver	**<0.11**	mg/kg	0.79	0.11	1	08/17/20 10:08	08/19/20 09:02	7440-22-4	
Zinc	**65.3**	mg/kg	2.6	1.4	1	08/17/20 10:08	08/19/20 09:02	7440-66-6	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
	Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 9.17								
	Pace Analytical Services - Greensburg								
Arsenic	**0.0036J**	mg/L	0.025	0.0033	1	08/19/20 12:07	08/21/20 08:28	7440-38-2	2c
Barium	**0.16**	mg/L	0.050	0.00055	1	08/19/20 12:07	08/21/20 08:28	7440-39-3	2c
Cadmium	**0.19**	mg/L	0.015	0.00027	1	08/19/20 12:07	08/21/20 08:28	7440-43-9	2c
Chromium	**0.025**	mg/L	0.025	0.00067	1	08/19/20 12:07	08/21/20 08:28	7440-47-3	2c
Lead	**0.012J**	mg/L	0.025	0.0031	1	08/19/20 12:07	08/21/20 08:28	7439-92-1	2c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/19/20 12:07	08/21/20 08:28	7782-49-2	2c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/19/20 12:07	08/21/20 08:28	7440-22-4	2c
Zinc	**0.055**	mg/L	0.025	0.0034	1	08/19/20 12:07	08/21/20 08:28	7440-66-6	2c
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
	Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 9.17								
	Pace Analytical Services - Greensburg								
Mercury	**0.080J**	ug/L	1.0	0.030	1	08/19/20 14:17	08/19/20 22:40	7439-97-6	B
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A								
	Pace Analytical Services - Greensburg								
Mercury	**0.065J**	mg/kg	0.13	0.0066	1	08/17/20 11:58	08/17/20 21:56	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**<0.00310**	mg/kg	0.00808	0.00310	1	08/17/20 20:48	08/18/20 05:00	120-12-7	
Acenaphthene	**<0.00282**	mg/kg	0.00808	0.00282	1	08/17/20 20:48	08/18/20 05:00	83-32-9	
Acenaphthylene	**<0.00291**	mg/kg	0.00808	0.00291	1	08/17/20 20:48	08/18/20 05:00	208-96-8	
Benzo(a)anthracene	**<0.00233**	mg/kg	0.00808	0.00233	1	08/17/20 20:48	08/18/20 05:00	56-55-3	
Benzo(a)pyrene	**<0.00241**	mg/kg	0.00808	0.00241	1	08/17/20 20:48	08/18/20 05:00	50-32-8	
Benzo(b)fluoranthene	**<0.00206**	mg/kg	0.00808	0.00206	1	08/17/20 20:48	08/18/20 05:00	205-99-2	
Benzo(g,h,i)perylene	**<0.00238**	mg/kg	0.00808	0.00238	1	08/17/20 20:48	08/18/20 05:00	191-24-2	
Benzo(k)fluoranthene	**<0.00290**	mg/kg	0.00808	0.00290	1	08/17/20 20:48	08/18/20 05:00	207-08-9	
Chrysene	**<0.00312**	mg/kg	0.00808	0.00312	1	08/17/20 20:48	08/18/20 05:00	218-01-9	
Dibenz(a,h)anthracene	**<0.00232**	mg/kg	0.00808	0.00232	1	08/17/20 20:48	08/18/20 05:00	53-70-3	
Fluoranthene	**<0.00306**	mg/kg	0.00808	0.00306	1	08/17/20 20:48	08/18/20 05:00	206-44-0	
Fluorene	**<0.00276**	mg/kg	0.00808	0.00276	1	08/17/20 20:48	08/18/20 05:00	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00244**	mg/kg	0.00808	0.00244	1	08/17/20 20:48	08/18/20 05:00	193-39-5	
Naphthalene	**<0.00550**	mg/kg	0.0269	0.00550	1	08/17/20 20:48	08/18/20 05:00	91-20-3	
Phenanthrene	**<0.00311**	mg/kg	0.00808	0.00311	1	08/17/20 20:48	08/18/20 05:00	85-01-8	
Pyrene	**<0.00269**	mg/kg	0.00808	0.00269	1	08/17/20 20:48	08/18/20 05:00	129-00-0	
1-Methylnaphthalene	**<0.00605**	mg/kg	0.0269	0.00605	1	08/17/20 20:48	08/18/20 05:00	90-12-0	
2-Methylnaphthalene	**<0.00575**	mg/kg	0.0269	0.00575	1	08/17/20 20:48	08/18/20 05:00	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	107	%	14.0-149		1	08/17/20 20:48	08/18/20 05:00	4165-60-0	
2-Fluorobiphenyl (S)	98.5	%	34.0-125		1	08/17/20 20:48	08/18/20 05:00	321-60-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Surrogates									
Terphenyl-d14 (S)	98.2	%	23.0-120		1	08/17/20 20:48	08/18/20 05:00	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 8.28								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:07	120-12-7	
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:07	83-32-9	
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 12:07	208-96-8	
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 12:07	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:07	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 12:07	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:07	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 12:07	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 12:07	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 12:07	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 12:07	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 12:07	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 12:07	91-20-3	
Phenanthrene	**0.0425J**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 12:07	85-01-8	J
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:07	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 12:07	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 12:07	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	99.5	%	31.0-160		2	08/21/20 07:13	08/21/20 12:07	4165-60-0	
2-Fluorobiphenyl (S)	89.0	%	48.0-148		2	08/21/20 07:13	08/21/20 12:07	321-60-8	
Terphenyl-d14 (S)	25.8	%	37.0-146		2	08/21/20 07:13	08/21/20 12:07	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**70.0**	ug/kg	11.3	3.6	1	08/19/20 12:46	08/20/20 00:07	67-64-1	
Benzene	**<0.98**	ug/kg	5.7	0.98	1	08/19/20 12:46	08/20/20 00:07	71-43-2	
Bromodichloromethane	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:07	75-27-4	
Bromoform	**<0.75**	ug/kg	5.7	0.75	1	08/19/20 12:46	08/20/20 00:07	75-25-2	
Bromomethane	**<2.1**	ug/kg	5.7	2.1	1	08/19/20 12:46	08/20/20 00:07	74-83-9	1c
2-Butanone (MEK)	**<1.0**	ug/kg	11.3	1.0	1	08/19/20 12:46	08/20/20 00:07	78-93-3	
Carbon disulfide	**<1.6**	ug/kg	5.7	1.6	1	08/19/20 12:46	08/20/20 00:07	75-15-0	
Carbon tetrachloride	**<1.9**	ug/kg	5.7	1.9	1	08/19/20 12:46	08/20/20 00:07	56-23-5	
Chlorobenzene	**<0.88**	ug/kg	5.7	0.88	1	08/19/20 12:46	08/20/20 00:07	108-90-7	
Chloroethane	**<2.4**	ug/kg	5.7	2.4	1	08/19/20 12:46	08/20/20 00:07	75-00-3	
Chloroform	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:07	67-66-3	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Chloromethane	**<1.9**	ug/kg	5.7	1.9	1	08/19/20 12:46	08/20/20 00:07	74-87-3	
Cyclohexane	**<2.1**	ug/kg	11.3	2.1	1	08/19/20 12:46	08/20/20 00:07	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:07	96-12-8	
Dibromochloromethane	**<0.89**	ug/kg	5.7	0.89	1	08/19/20 12:46	08/20/20 00:07	124-48-1	
1,2-Dibromoethane (EDB)	**<0.90**	ug/kg	5.7	0.90	1	08/19/20 12:46	08/20/20 00:07	106-93-4	
1,2-Dichlorobenzene	**<0.67**	ug/kg	5.7	0.67	1	08/19/20 12:46	08/20/20 00:07	95-50-1	
1,3-Dichlorobenzene	**<0.73**	ug/kg	5.7	0.73	1	08/19/20 12:46	08/20/20 00:07	541-73-1	
1,4-Dichlorobenzene	**<0.80**	ug/kg	5.7	0.80	1	08/19/20 12:46	08/20/20 00:07	106-46-7	
Dichlorodifluoromethane	**<3.1**	ug/kg	5.7	3.1	1	08/19/20 12:46	08/20/20 00:07	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:07	75-34-3	
1,2-Dichloroethane	**<1.5**	ug/kg	5.7	1.5	1	08/19/20 12:46	08/20/20 00:07	107-06-2	
1,1-Dichloroethene	**<2.1**	ug/kg	5.7	2.1	1	08/19/20 12:46	08/20/20 00:07	75-35-4	
cis-1,2-Dichloroethene	**<1.3**	ug/kg	5.7	1.3	1	08/19/20 12:46	08/20/20 00:07	156-59-2	
trans-1,2-Dichloroethene	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:07	156-60-5	
1,2-Dichloropropane	**<0.81**	ug/kg	5.7	0.81	1	08/19/20 12:46	08/20/20 00:07	78-87-5	
cis-1,3-Dichloropropene	**<0.57**	ug/kg	5.7	0.57	1	08/19/20 12:46	08/20/20 00:07	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:07	10061-02-6	
Ethylbenzene	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:07	100-41-4	
2-Hexanone	**<1.1**	ug/kg	11.3	1.1	1	08/19/20 12:46	08/20/20 00:07	591-78-6	
Isopropylbenzene (Cumene)	**<1.3**	ug/kg	5.7	1.3	1	08/19/20 12:46	08/20/20 00:07	98-82-8	
Methyl acetate	**<1.2**	ug/kg	56.5	1.2	1	08/19/20 12:46	08/20/20 00:07	79-20-9	1c
Methylcyclohexane	**<3.5**	ug/kg	11.3	3.5	1	08/19/20 12:46	08/20/20 00:07	108-87-2	
Methylene Chloride	**<4.7**	ug/kg	5.7	4.7	1	08/19/20 12:46	08/20/20 00:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.3**	ug/kg	11.3	1.3	1	08/19/20 12:46	08/20/20 00:07	108-10-1	
Methyl-tert-butyl ether	**<0.76**	ug/kg	5.7	0.76	1	08/19/20 12:46	08/20/20 00:07	1634-04-4	
Styrene	**<1.6**	ug/kg	5.7	1.6	1	08/19/20 12:46	08/20/20 00:07	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.67**	ug/kg	5.7	0.67	1	08/19/20 12:46	08/20/20 00:07	79-34-5	
Tetrachloroethene	**<2.0**	ug/kg	5.7	2.0	1	08/19/20 12:46	08/20/20 00:07	127-18-4	
Toluene	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:07	108-88-3	
1,2,3-Trichlorobenzene	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:07	87-61-6	
1,2,4-Trichlorobenzene	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:07	120-82-1	
1,1,1-Trichloroethane	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:07	71-55-6	
1,1,2-Trichloroethane	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:07	79-00-5	
Trichloroethene	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:07	79-01-6	
Trichlorofluoromethane	**<2.4**	ug/kg	5.7	2.4	1	08/19/20 12:46	08/20/20 00:07	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<2.4**	ug/kg	56.5	2.4	1	08/19/20 12:46	08/20/20 00:07	76-13-1	
1,2,4-Trimethylbenzene	**<2.8**	ug/kg	5.7	2.8	1	08/19/20 12:46	08/20/20 00:07	95-63-6	
1,3,5-Trimethylbenzene	**<2.3**	ug/kg	5.7	2.3	1	08/19/20 12:46	08/20/20 00:07	108-67-8	
Vinyl chloride	**<2.4**	ug/kg	5.7	2.4	1	08/19/20 12:46	08/20/20 00:07	75-01-4	
Xylene (Total)	**<3.6**	ug/kg	17.0	3.6	1	08/19/20 12:46	08/20/20 00:07	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%.	70-130		1	08/19/20 12:46	08/20/20 00:07	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		1	08/19/20 12:46	08/20/20 00:07	460-00-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	08/19/20 12:46	08/20/20 00:07	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130		1	08/19/20 12:46	08/20/20 00:07	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
Acetone	**1470**	ug/L	100	31.8	10		08/18/20 19:42	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/18/20 19:42	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/18/20 19:42	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/18/20 19:42	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/18/20 19:42	74-83-9	1c
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/18/20 19:42	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/18/20 19:42	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/18/20 19:42	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/18/20 19:42	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/18/20 19:42	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/18/20 19:42	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/18/20 19:42	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/18/20 19:42	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/18/20 19:42	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/18/20 19:42	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/18/20 19:42	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/18/20 19:42	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/18/20 19:42	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/18/20 19:42	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/18/20 19:42	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/18/20 19:42	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/18/20 19:42	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/18/20 19:42	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/18/20 19:42	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 19:42	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/18/20 19:42	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/18/20 19:42	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/18/20 19:42	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/18/20 19:42	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/18/20 19:42	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/18/20 19:42	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/18/20 19:42	79-20-9	1c
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/18/20 19:42	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/18/20 19:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/18/20 19:42	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/18/20 19:42	1634-04-4	

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/18/20 19:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/18/20 19:42	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/18/20 19:42	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/18/20 19:42	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/18/20 19:42	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 19:42	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/18/20 19:42	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/18/20 19:42	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/18/20 19:42	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/18/20 19:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/18/20 19:42	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/18/20 19:42	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/18/20 19:42	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/18/20 19:42	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/18/20 19:42	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%.	70-130		10		08/18/20 19:42	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		08/18/20 19:42	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		08/18/20 19:42	460-00-4	
Dibromofluoromethane (S)	105	%.	70-130		10		08/18/20 19:42	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**25.8**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**74.2**	%			1	08/19/20 14:47	08/19/20 14:55		

Sample: SB07 (0-2) **Lab ID: 30377174006** Collected: 08/11/20 11:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**12.9**	mg/kg	1.0	0.41	1	08/17/20 10:08	08/19/20 09:11	7440-38-2	
Barium	**296**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 09:11	7440-39-3	
Cadmium	**0.16J**	mg/kg	0.31	0.048	1	08/17/20 10:08	08/19/20 09:11	7440-43-9	
Chromium	**23.5**	mg/kg	1.0	0.79	1	08/17/20 10:08	08/19/20 09:11	7440-47-3	
Lead	**14.8**	mg/kg	1.0	0.47	1	08/17/20 10:08	08/19/20 09:11	7439-92-1	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (0-2) **Lab ID: 30377174006** Collected: 08/11/20 11:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Selenium	**<0.63**	mg/kg	1.7	0.63	1	08/17/20 10:08	08/19/20 09:11	7782-49-2	
Silver	**<0.089**	mg/kg	0.63	0.089	1	08/17/20 10:08	08/19/20 09:11	7440-22-4	
Zinc	**55.9**	mg/kg	2.1	1.1	1	08/17/20 10:08	08/19/20 09:11	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.092J**	mg/kg	0.11	0.0054	1	08/17/20 11:58	08/17/20 22:02	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**0.00673J**	mg/kg	0.00704	0.00270	1	08/17/20 20:48	08/18/20 05:21	120-12-7	J
Acenaphthene	**0.00300J**	mg/kg	0.00704	0.00245	1	08/17/20 20:48	08/18/20 05:21	83-32-9	J
Acenaphthylene	**<0.00253**	mg/kg	0.00704	0.00253	1	08/17/20 20:48	08/18/20 05:21	208-96-8	
Benzo(a)anthracene	**0.0245**	mg/kg	0.00704	0.00203	1	08/17/20 20:48	08/18/20 05:21	56-55-3	
Benzo(a)pyrene	**0.0220**	mg/kg	0.00704	0.00210	1	08/17/20 20:48	08/18/20 05:21	50-32-8	
Benzo(b)fluoranthene	**0.0318**	mg/kg	0.00704	0.00179	1	08/17/20 20:48	08/18/20 05:21	205-99-2	
Benzo(g,h,i)perylene	**0.0170**	mg/kg	0.00704	0.00208	1	08/17/20 20:48	08/18/20 05:21	191-24-2	
Benzo(k)fluoranthene	**0.0100**	mg/kg	0.00704	0.00252	1	08/17/20 20:48	08/18/20 05:21	207-08-9	
Chrysene	**0.0245**	mg/kg	0.00704	0.00272	1	08/17/20 20:48	08/18/20 05:21	218-01-9	
Dibenz(a,h)anthracene	**0.00441J**	mg/kg	0.00704	0.00202	1	08/17/20 20:48	08/18/20 05:21	53-70-3	J
Fluoranthene	**0.0536**	mg/kg	0.00704	0.00266	1	08/17/20 20:48	08/18/20 05:21	206-44-0	
Fluorene	**0.00278J**	mg/kg	0.00704	0.00240	1	08/17/20 20:48	08/18/20 05:21	86-73-7	J
Indeno(1,2,3-cd)pyrene	**0.0142**	mg/kg	0.00704	0.00212	1	08/17/20 20:48	08/18/20 05:21	193-39-5	
Naphthalene	**<0.00478**	mg/kg	0.0235	0.00478	1	08/17/20 20:48	08/18/20 05:21	91-20-3	
Phenanthrene	**0.0322**	mg/kg	0.00704	0.00271	1	08/17/20 20:48	08/18/20 05:21	85-01-8	
Pyrene	**0.0430**	mg/kg	0.00704	0.00235	1	08/17/20 20:48	08/18/20 05:21	129-00-0	
1-Methylnaphthalene	**<0.00526**	mg/kg	0.0235	0.00526	1	08/17/20 20:48	08/18/20 05:21	90-12-0	
2-Methylnaphthalene	**<0.00501**	mg/kg	0.0235	0.00501	1	08/17/20 20:48	08/18/20 05:21	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	89.7	%	14.0-149		1	08/17/20 20:48	08/18/20 05:21	4165-60-0	
2-Fluorobiphenyl (S)	84.9	%	34.0-125		1	08/17/20 20:48	08/18/20 05:21	321-60-8	
Terphenyl-d14 (S)	82.2	%	23.0-120		1	08/17/20 20:48	08/18/20 05:21	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**13.2**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**85.3**	%			1	08/19/20 14:57	08/19/20 15:05		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24) **Lab ID: 30377174007** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**13.9**	mg/kg	1.3	0.52	1	08/17/20 10:08	08/19/20 09:13	7440-38-2	
Barium	**71.6**	mg/kg	2.7	0.17	1	08/17/20 10:08	08/19/20 09:13	7440-39-3	
Cadmium	**0.11J**	mg/kg	0.40	0.061	1	08/17/20 10:08	08/19/20 09:13	7440-43-9	
Chromium	**13.8**	mg/kg	1.3	1.0	1	08/17/20 10:08	08/19/20 09:13	7440-47-3	
Lead	**7.4**	mg/kg	1.3	0.60	1	08/17/20 10:08	08/19/20 09:13	7439-92-1	
Selenium	**<0.80**	mg/kg	2.1	0.80	1	08/17/20 10:08	08/19/20 09:13	7782-49-2	
Silver	**<0.11**	mg/kg	0.80	0.11	1	08/17/20 10:08	08/19/20 09:13	7440-22-4	
Zinc	**36.6**	mg/kg	2.7	1.4	1	08/17/20 10:08	08/19/20 09:13	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.75 Pace Analytical Services - Greensburg								
Arsenic	**0.0039J**	mg/L	0.025	0.0033	1	08/19/20 12:07	08/21/20 08:14	7440-38-2	2c
Barium	**0.054**	mg/L	0.050	0.00055	1	08/19/20 12:07	08/21/20 08:14	7440-39-3	2c,B
Cadmium	**0.00043J**	mg/L	0.015	0.00027	1	08/19/20 12:07	08/21/20 08:14	7440-43-9	2c
Chromium	**0.0082J**	mg/L	0.025	0.00067	1	08/19/20 12:07	08/21/20 08:14	7440-47-3	2c,B
Lead	**<0.0031**	mg/L	0.025	0.0031	1	08/19/20 12:07	08/21/20 08:14	7439-92-1	2c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/19/20 12:07	08/21/20 08:14	7782-49-2	2c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/19/20 12:07	08/21/20 08:14	7440-22-4	2c
Zinc	**0.015J**	mg/L	0.025	0.0034	1	08/19/20 12:07	08/21/20 08:14	7440-66-6	2c,B
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.75 Pace Analytical Services - Greensburg								
Mercury	**0.030J**	ug/L	1.0	0.030	1	08/19/20 14:17	08/19/20 22:33	7439-97-6	B
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.014J**	mg/kg	0.13	0.0065	1	08/17/20 11:58	08/17/20 22:04	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00305**	mg/kg	0.00796	0.00305	1	08/17/20 20:48	08/18/20 05:41	120-12-7	
Acenaphthene	**<0.00277**	mg/kg	0.00796	0.00277	1	08/17/20 20:48	08/18/20 05:41	83-32-9	
Acenaphthylene	**<0.00287**	mg/kg	0.00796	0.00287	1	08/17/20 20:48	08/18/20 05:41	208-96-8	
Benzo(a)anthracene	**<0.00230**	mg/kg	0.00796	0.00230	1	08/17/20 20:48	08/18/20 05:41	56-55-3	
Benzo(a)pyrene	**<0.00238**	mg/kg	0.00796	0.00238	1	08/17/20 20:48	08/18/20 05:41	50-32-8	
Benzo(b)fluoranthene	**<0.00203**	mg/kg	0.00796	0.00203	1	08/17/20 20:48	08/18/20 05:41	205-99-2	
Benzo(g,h,i)perylene	**<0.00235**	mg/kg	0.00796	0.00235	1	08/17/20 20:48	08/18/20 05:41	191-24-2	
Benzo(k)fluoranthene	**<0.00285**	mg/kg	0.00796	0.00285	1	08/17/20 20:48	08/18/20 05:41	207-08-9	
Chrysene	**<0.00308**	mg/kg	0.00796	0.00308	1	08/17/20 20:48	08/18/20 05:41	218-01-9	
Dibenz(a,h)anthracene	**<0.00228**	mg/kg	0.00796	0.00228	1	08/17/20 20:48	08/18/20 05:41	53-70-3	
Fluoranthene	**<0.00301**	mg/kg	0.00796	0.00301	1	08/17/20 20:48	08/18/20 05:41	206-44-0	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24) **Lab ID: 30377174007** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Fluorene	**<0.00272**	mg/kg	0.00796	0.00272	1	08/17/20 20:48	08/18/20 05:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00240**	mg/kg	0.00796	0.00240	1	08/17/20 20:48	08/18/20 05:41	193-39-5	
Naphthalene	**<0.00542**	mg/kg	0.0265	0.00542	1	08/17/20 20:48	08/18/20 05:41	91-20-3	
Phenanthrene	**<0.00307**	mg/kg	0.00796	0.00307	1	08/17/20 20:48	08/18/20 05:41	85-01-8	
Pyrene	**<0.00265**	mg/kg	0.00796	0.00265	1	08/17/20 20:48	08/18/20 05:41	129-00-0	
1-Methylnaphthalene	**<0.00596**	mg/kg	0.0265	0.00596	1	08/17/20 20:48	08/18/20 05:41	90-12-0	
2-Methylnaphthalene	**<0.00567**	mg/kg	0.0265	0.00567	1	08/17/20 20:48	08/18/20 05:41	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	94.9	%	14.0-149		1	08/17/20 20:48	08/18/20 05:41	4165-60-0	
2-Fluorobiphenyl (S)	93.7	%	34.0-125		1	08/17/20 20:48	08/18/20 05:41	321-60-8	
Terphenyl-d14 (S)	96.2	%	23.0-120		1	08/17/20 20:48	08/18/20 05:41	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.94								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:29	120-12-7	
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:29	83-32-9	
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 12:29	208-96-8	
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 12:29	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:29	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 12:29	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:29	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 12:29	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 12:29	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 12:29	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 12:29	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:29	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 12:29	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 12:29	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 12:29	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:29	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 12:29	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 12:29	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	93.0	%	31.0-160		2	08/21/20 07:13	08/21/20 12:29	4165-60-0	
2-Fluorobiphenyl (S)	79.0	%	48.0-148		2	08/21/20 07:13	08/21/20 12:29	321-60-8	
Terphenyl-d14 (S)	17.0	%	37.0-146		2	08/21/20 07:13	08/21/20 12:29	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**40.3**	ug/kg	12.5	4.0	1	08/19/20 12:46	08/20/20 00:33	67-64-1	
Benzene	**<1.1**	ug/kg	6.3	1.1	1	08/19/20 12:46	08/20/20 00:33	71-43-2	
Bromodichloromethane	**<1.4**	ug/kg	6.3	1.4	1	08/19/20 12:46	08/20/20 00:33	75-27-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24) **Lab ID: 30377174007** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Bromoform	**<0.83**	ug/kg	6.3	0.83	1	08/19/20 12:46	08/20/20 00:33	75-25-2	
Bromomethane	**<2.3**	ug/kg	6.3	2.3	1	08/19/20 12:46	08/20/20 00:33	74-83-9	1c
2-Butanone (MEK)	**<1.1**	ug/kg	12.5	1.1	1	08/19/20 12:46	08/20/20 00:33	78-93-3	
Carbon disulfide	**<1.8**	ug/kg	6.3	1.8	1	08/19/20 12:46	08/20/20 00:33	75-15-0	
Carbon tetrachloride	**<2.2**	ug/kg	6.3	2.2	1	08/19/20 12:46	08/20/20 00:33	56-23-5	
Chlorobenzene	**<0.98**	ug/kg	6.3	0.98	1	08/19/20 12:46	08/20/20 00:33	108-90-7	
Chloroethane	**<2.6**	ug/kg	6.3	2.6	1	08/19/20 12:46	08/20/20 00:33	75-00-3	
Chloroform	**<1.9**	ug/kg	6.3	1.9	1	08/19/20 12:46	08/20/20 00:33	67-66-3	
Chloromethane	**<2.1**	ug/kg	6.3	2.1	1	08/19/20 12:46	08/20/20 00:33	74-87-3	
Cyclohexane	**<2.4**	ug/kg	12.5	2.4	1	08/19/20 12:46	08/20/20 00:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/kg	6.3	1.5	1	08/19/20 12:46	08/20/20 00:33	96-12-8	
Dibromochloromethane	**<0.99**	ug/kg	6.3	0.99	1	08/19/20 12:46	08/20/20 00:33	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/kg	6.3	1.0	1	08/19/20 12:46	08/20/20 00:33	106-93-4	
1,2-Dichlorobenzene	**<0.74**	ug/kg	6.3	0.74	1	08/19/20 12:46	08/20/20 00:33	95-50-1	
1,3-Dichlorobenzene	**<0.81**	ug/kg	6.3	0.81	1	08/19/20 12:46	08/20/20 00:33	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/kg	6.3	0.89	1	08/19/20 12:46	08/20/20 00:33	106-46-7	
Dichlorodifluoromethane	**<3.4**	ug/kg	6.3	3.4	1	08/19/20 12:46	08/20/20 00:33	75-71-8	
1,1-Dichloroethane	**<1.6**	ug/kg	6.3	1.6	1	08/19/20 12:46	08/20/20 00:33	75-34-3	
1,2-Dichloroethane	**<1.6**	ug/kg	6.3	1.6	1	08/19/20 12:46	08/20/20 00:33	107-06-2	
1,1-Dichloroethene	**<2.3**	ug/kg	6.3	2.3	1	08/19/20 12:46	08/20/20 00:33	75-35-4	
cis-1,2-Dichloroethene	**<1.5**	ug/kg	6.3	1.5	1	08/19/20 12:46	08/20/20 00:33	156-59-2	
trans-1,2-Dichloroethene	**<1.6**	ug/kg	6.3	1.6	1	08/19/20 12:46	08/20/20 00:33	156-60-5	
1,2-Dichloropropane	**<0.90**	ug/kg	6.3	0.90	1	08/19/20 12:46	08/20/20 00:33	78-87-5	
cis-1,3-Dichloropropene	**<0.63**	ug/kg	6.3	0.63	1	08/19/20 12:46	08/20/20 00:33	10061-01-5	
trans-1,3-Dichloropropene	**<1.3**	ug/kg	6.3	1.3	1	08/19/20 12:46	08/20/20 00:33	10061-02-6	
Ethylbenzene	**<1.4**	ug/kg	6.3	1.4	1	08/19/20 12:46	08/20/20 00:33	100-41-4	
2-Hexanone	**<1.2**	ug/kg	12.5	1.2	1	08/19/20 12:46	08/20/20 00:33	591-78-6	
Isopropylbenzene (Cumene)	**<1.5**	ug/kg	6.3	1.5	1	08/19/20 12:46	08/20/20 00:33	98-82-8	
Methyl acetate	**<1.4**	ug/kg	62.6	1.4	1	08/19/20 12:46	08/20/20 00:33	79-20-9	1c
Methylcyclohexane	**<3.9**	ug/kg	12.5	3.9	1	08/19/20 12:46	08/20/20 00:33	108-87-2	
Methylene Chloride	**<5.2**	ug/kg	6.3	5.2	1	08/19/20 12:46	08/20/20 00:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.4**	ug/kg	12.5	1.4	1	08/19/20 12:46	08/20/20 00:33	108-10-1	
Methyl-tert-butyl ether	**<0.84**	ug/kg	6.3	0.84	1	08/19/20 12:46	08/20/20 00:33	1634-04-4	
Styrene	**<1.8**	ug/kg	6.3	1.8	1	08/19/20 12:46	08/20/20 00:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.74**	ug/kg	6.3	0.74	1	08/19/20 12:46	08/20/20 00:33	79-34-5	
Tetrachloroethene	**<2.2**	ug/kg	6.3	2.2	1	08/19/20 12:46	08/20/20 00:33	127-18-4	
Toluene	**<1.2**	ug/kg	6.3	1.2	1	08/19/20 12:46	08/20/20 00:33	108-88-3	
1,2,3-Trichlorobenzene	**<1.2**	ug/kg	6.3	1.2	1	08/19/20 12:46	08/20/20 00:33	87-61-6	
1,2,4-Trichlorobenzene	**<1.6**	ug/kg	6.3	1.6	1	08/19/20 12:46	08/20/20 00:33	120-82-1	
1,1,1-Trichloroethane	**<1.9**	ug/kg	6.3	1.9	1	08/19/20 12:46	08/20/20 00:33	71-55-6	
1,1,2-Trichloroethane	**<1.2**	ug/kg	6.3	1.2	1	08/19/20 12:46	08/20/20 00:33	79-00-5	
Trichloroethene	**<1.8**	ug/kg	6.3	1.8	1	08/19/20 12:46	08/20/20 00:33	79-01-6	
Trichlorofluoromethane	**<2.7**	ug/kg	6.3	2.7	1	08/19/20 12:46	08/20/20 00:33	75-69-4	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24) **Lab ID: 30377174007** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1,2-Trichlorotrifluoroethane	**<2.7**	ug/kg	62.6	2.7	1	08/19/20 12:46	08/20/20 00:33	76-13-1	
1,2,4-Trimethylbenzene	**<3.1**	ug/kg	6.3	3.1	1	08/19/20 12:46	08/20/20 00:33	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/kg	6.3	2.5	1	08/19/20 12:46	08/20/20 00:33	108-67-8	
Vinyl chloride	**<2.7**	ug/kg	6.3	2.7	1	08/19/20 12:46	08/20/20 00:33	75-01-4	
Xylene (Total)	**<4.0**	ug/kg	18.8	4.0	1	08/19/20 12:46	08/20/20 00:33	1330-20-7	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	08/19/20 12:46	08/20/20 00:33	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/19/20 12:46	08/20/20 00:33	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130		1	08/19/20 12:46	08/20/20 00:33	17060-07-0	
Dibromofluoromethane (S)	105	%.	70-130		1	08/19/20 12:46	08/20/20 00:33	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10 Pace Analytical Services - Greensburg								
Acetone	**72.4J**	ug/L	100	31.8	10		08/18/20 20:08	67-64-1	B
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/18/20 20:08	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/18/20 20:08	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/18/20 20:08	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/18/20 20:08	74-83-9	1c
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/18/20 20:08	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/18/20 20:08	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/18/20 20:08	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/18/20 20:08	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/18/20 20:08	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/18/20 20:08	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/18/20 20:08	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/18/20 20:08	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/18/20 20:08	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/18/20 20:08	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/18/20 20:08	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/18/20 20:08	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/18/20 20:08	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/18/20 20:08	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/18/20 20:08	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/18/20 20:08	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/18/20 20:08	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/18/20 20:08	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/18/20 20:08	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 20:08	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/18/20 20:08	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/18/20 20:08	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/18/20 20:08	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/18/20 20:08	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/18/20 20:08	591-78-6	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24) **Lab ID: 30377174007** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/18/20 20:08	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/18/20 20:08	79-20-9	1c
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/18/20 20:08	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/18/20 20:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/18/20 20:08	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/18/20 20:08	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/18/20 20:08	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/18/20 20:08	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/18/20 20:08	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/18/20 20:08	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/18/20 20:08	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 20:08	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/18/20 20:08	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/18/20 20:08	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/18/20 20:08	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/18/20 20:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/18/20 20:08	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/18/20 20:08	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/18/20 20:08	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/18/20 20:08	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/18/20 20:08	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%.	70-130		10		08/18/20 20:08	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		10		08/18/20 20:08	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		08/18/20 20:08	460-00-4	
Dibromofluoromethane (S)	103	%.	70-130		10		08/18/20 20:08	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**24.7**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**75.3**	%			1	08/19/20 14:57	08/19/20 15:05		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24)-FD **Lab ID: 30377174008** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**7.8**	mg/kg	1.3	0.49	1	08/17/20 10:08	08/19/20 09:16	7440-38-2	
Barium	**113**	mg/kg	2.5	0.16	1	08/17/20 10:08	08/19/20 09:16	7440-39-3	
Cadmium	**0.12J**	mg/kg	0.38	0.058	1	08/17/20 10:08	08/19/20 09:16	7440-43-9	
Chromium	**17.5**	mg/kg	1.3	0.96	1	08/17/20 10:08	08/19/20 09:16	7440-47-3	
Lead	**10.6**	mg/kg	1.3	0.57	1	08/17/20 10:08	08/19/20 09:16	7439-92-1	
Selenium	**<0.76**	mg/kg	2.0	0.76	1	08/17/20 10:08	08/19/20 09:16	7782-49-2	
Silver	**<0.11**	mg/kg	0.76	0.11	1	08/17/20 10:08	08/19/20 09:16	7440-22-4	
Zinc	**49.3**	mg/kg	2.5	1.4	1	08/17/20 10:08	08/19/20 09:16	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.7 Pace Analytical Services - Greensburg								
Arsenic	**0.0049J**	mg/L	0.025	0.0033	1	08/19/20 12:07	08/21/20 08:31	7440-38-2	2c
Barium	**0.053**	mg/L	0.050	0.00055	1	08/19/20 12:07	08/21/20 08:31	7440-39-3	2c,B
Cadmium	**0.00034J**	mg/L	0.015	0.00027	1	08/19/20 12:07	08/21/20 08:31	7440-43-9	2c
Chromium	**0.0074J**	mg/L	0.025	0.00067	1	08/19/20 12:07	08/21/20 08:31	7440-47-3	2c,B
Lead	**0.0036J**	mg/L	0.025	0.0031	1	08/19/20 12:07	08/21/20 08:31	7439-92-1	2c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/19/20 12:07	08/21/20 08:31	7782-49-2	2c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/19/20 12:07	08/21/20 08:31	7440-22-4	2c
Zinc	**0.014J**	mg/L	0.025	0.0034	1	08/19/20 12:07	08/21/20 08:31	7440-66-6	2c,B
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.7 Pace Analytical Services - Greensburg								
Mercury	**0.040J**	ug/L	1.0	0.030	1	08/19/20 14:17	08/19/20 22:45	7439-97-6	B
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.031J**	mg/kg	0.13	0.0062	1	08/17/20 11:58	08/17/20 22:06	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00288**	mg/kg	0.00752	0.00288	1	08/17/20 20:48	08/18/20 06:02	120-12-7	
Acenaphthene	**<0.00262**	mg/kg	0.00752	0.00262	1	08/17/20 20:48	08/18/20 06:02	83-32-9	
Acenaphthylene	**<0.00271**	mg/kg	0.00752	0.00271	1	08/17/20 20:48	08/18/20 06:02	208-96-8	
Benzo(a)anthracene	**<0.00217**	mg/kg	0.00752	0.00217	1	08/17/20 20:48	08/18/20 06:02	56-55-3	
Benzo(a)pyrene	**<0.00224**	mg/kg	0.00752	0.00224	1	08/17/20 20:48	08/18/20 06:02	50-32-8	
Benzo(b)fluoranthene	**<0.00192**	mg/kg	0.00752	0.00192	1	08/17/20 20:48	08/18/20 06:02	205-99-2	
Benzo(g,h,i)perylene	**<0.00222**	mg/kg	0.00752	0.00222	1	08/17/20 20:48	08/18/20 06:02	191-24-2	
Benzo(k)fluoranthene	**<0.00269**	mg/kg	0.00752	0.00269	1	08/17/20 20:48	08/18/20 06:02	207-08-9	
Chrysene	**<0.00291**	mg/kg	0.00752	0.00291	1	08/17/20 20:48	08/18/20 06:02	218-01-9	
Dibenz(a,h)anthracene	**<0.00216**	mg/kg	0.00752	0.00216	1	08/17/20 20:48	08/18/20 06:02	53-70-3	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24)-FD **Lab ID: 30377174008** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Fluoranthene	**<0.00285**	mg/kg	0.00752	0.00285	1	08/17/20 20:48	08/18/20 06:02	206-44-0	
Fluorene	**<0.00257**	mg/kg	0.00752	0.00257	1	08/17/20 20:48	08/18/20 06:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00227**	mg/kg	0.00752	0.00227	1	08/17/20 20:48	08/18/20 06:02	193-39-5	
Naphthalene	**<0.00511**	mg/kg	0.0251	0.00511	1	08/17/20 20:48	08/18/20 06:02	91-20-3	
Phenanthrene	**<0.00290**	mg/kg	0.00752	0.00290	1	08/17/20 20:48	08/18/20 06:02	85-01-8	
Pyrene	**<0.00251**	mg/kg	0.00752	0.00251	1	08/17/20 20:48	08/18/20 06:02	129-00-0	
1-Methylnaphthalene	**<0.00563**	mg/kg	0.0251	0.00563	1	08/17/20 20:48	08/18/20 06:02	90-12-0	
2-Methylnaphthalene	**<0.00535**	mg/kg	0.0251	0.00535	1	08/17/20 20:48	08/18/20 06:02	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	103	%	14.0-149		1	08/17/20 20:48	08/18/20 06:02	4165-60-0	
2-Fluorobiphenyl (S)	96.9	%	34.0-125		1	08/17/20 20:48	08/18/20 06:02	321-60-8	
Terphenyl-d14 (S)	97.6	%	23.0-120		1	08/17/20 20:48	08/18/20 06:02	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.82								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:50	120-12-7	
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:50	83-32-9	
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 12:50	208-96-8	
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 12:50	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:50	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 12:50	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:50	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 12:50	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 12:50	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 12:50	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 12:50	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 12:50	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 12:50	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 12:50	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:50	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 12:50	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 12:50	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	93.0	%	31.0-160		2	08/21/20 07:13	08/21/20 12:50	4165-60-0	
2-Fluorobiphenyl (S)	77.5	%	48.0-148		2	08/21/20 07:13	08/21/20 12:50	321-60-8	
Terphenyl-d14 (S)	30.6	%	37.0-146		2	08/21/20 07:13	08/21/20 12:50	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**22.2**	ug/kg	11.4	3.6	1	08/19/20 12:46	08/20/20 00:59	67-64-1	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24)-FD **Lab ID: 30377174008** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Benzene	**<0.99**	ug/kg	5.7	0.99	1	08/19/20 12:46	08/20/20 00:59	71-43-2	
Bromodichloromethane	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:59	75-27-4	
Bromoform	**<0.75**	ug/kg	5.7	0.75	1	08/19/20 12:46	08/20/20 00:59	75-25-2	
Bromomethane	**<2.1**	ug/kg	5.7	2.1	1	08/19/20 12:46	08/20/20 00:59	74-83-9	1c
2-Butanone (MEK)	**<1.0**	ug/kg	11.4	1.0	1	08/19/20 12:46	08/20/20 00:59	78-93-3	
Carbon disulfide	**3.3J**	ug/kg	5.7	1.6	1	08/19/20 12:46	08/20/20 00:59	75-15-0	
Carbon tetrachloride	**<2.0**	ug/kg	5.7	2.0	1	08/19/20 12:46	08/20/20 00:59	56-23-5	
Chlorobenzene	**<0.89**	ug/kg	5.7	0.89	1	08/19/20 12:46	08/20/20 00:59	108-90-7	
Chloroethane	**<2.4**	ug/kg	5.7	2.4	1	08/19/20 12:46	08/20/20 00:59	75-00-3	
Chloroform	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:59	67-66-3	
Chloromethane	**<1.9**	ug/kg	5.7	1.9	1	08/19/20 12:46	08/20/20 00:59	74-87-3	
Cyclohexane	**<2.1**	ug/kg	11.4	2.1	1	08/19/20 12:46	08/20/20 00:59	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:59	96-12-8	
Dibromochloromethane	**<0.90**	ug/kg	5.7	0.90	1	08/19/20 12:46	08/20/20 00:59	124-48-1	
1,2-Dibromoethane (EDB)	**<0.91**	ug/kg	5.7	0.91	1	08/19/20 12:46	08/20/20 00:59	106-93-4	
1,2-Dichlorobenzene	**<0.67**	ug/kg	5.7	0.67	1	08/19/20 12:46	08/20/20 00:59	95-50-1	
1,3-Dichlorobenzene	**<0.74**	ug/kg	5.7	0.74	1	08/19/20 12:46	08/20/20 00:59	541-73-1	
1,4-Dichlorobenzene	**<0.81**	ug/kg	5.7	0.81	1	08/19/20 12:46	08/20/20 00:59	106-46-7	
Dichlorodifluoromethane	**<3.1**	ug/kg	5.7	3.1	1	08/19/20 12:46	08/20/20 00:59	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:59	75-34-3	
1,2-Dichloroethane	**<1.5**	ug/kg	5.7	1.5	1	08/19/20 12:46	08/20/20 00:59	107-06-2	
1,1-Dichloroethene	**<2.1**	ug/kg	5.7	2.1	1	08/19/20 12:46	08/20/20 00:59	75-35-4	
cis-1,2-Dichloroethene	**<1.3**	ug/kg	5.7	1.3	1	08/19/20 12:46	08/20/20 00:59	156-59-2	
trans-1,2-Dichloroethene	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:59	156-60-5	
1,2-Dichloropropane	**<0.82**	ug/kg	5.7	0.82	1	08/19/20 12:46	08/20/20 00:59	78-87-5	
cis-1,3-Dichloropropene	**<0.57**	ug/kg	5.7	0.57	1	08/19/20 12:46	08/20/20 00:59	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:59	10061-02-6	
Ethylbenzene	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:59	100-41-4	
2-Hexanone	**<1.1**	ug/kg	11.4	1.1	1	08/19/20 12:46	08/20/20 00:59	591-78-6	
Isopropylbenzene (Cumene)	**<1.3**	ug/kg	5.7	1.3	1	08/19/20 12:46	08/20/20 00:59	98-82-8	
Methyl acetate	**<1.2**	ug/kg	56.8	1.2	1	08/19/20 12:46	08/20/20 00:59	79-20-9	1c
Methylcyclohexane	**<3.5**	ug/kg	11.4	3.5	1	08/19/20 12:46	08/20/20 00:59	108-87-2	
Methylene Chloride	**<4.8**	ug/kg	5.7	4.8	1	08/19/20 12:46	08/20/20 00:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.3**	ug/kg	11.4	1.3	1	08/19/20 12:46	08/20/20 00:59	108-10-1	
Methyl-tert-butyl ether	**<0.76**	ug/kg	5.7	0.76	1	08/19/20 12:46	08/20/20 00:59	1634-04-4	
Styrene	**<1.6**	ug/kg	5.7	1.6	1	08/19/20 12:46	08/20/20 00:59	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.67**	ug/kg	5.7	0.67	1	08/19/20 12:46	08/20/20 00:59	79-34-5	
Tetrachloroethene	**<2.0**	ug/kg	5.7	2.0	1	08/19/20 12:46	08/20/20 00:59	127-18-4	
Toluene	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:59	108-88-3	
1,2,3-Trichlorobenzene	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:59	87-61-6	
1,2,4-Trichlorobenzene	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:59	120-82-1	
1,1,1-Trichloroethane	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:59	71-55-6	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24)-FD **Lab ID: 30377174008** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
1,1,2-Trichloroethane	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:59	79-00-5	
Trichloroethene	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:59	79-01-6	
Trichlorofluoromethane	**<2.5**	ug/kg	5.7	2.5	1	08/19/20 12:46	08/20/20 00:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<2.4**	ug/kg	56.8	2.4	1	08/19/20 12:46	08/20/20 00:59	76-13-1	
1,2,4-Trimethylbenzene	**<2.8**	ug/kg	5.7	2.8	1	08/19/20 12:46	08/20/20 00:59	95-63-6	
1,3,5-Trimethylbenzene	**<2.3**	ug/kg	5.7	2.3	1	08/19/20 12:46	08/20/20 00:59	108-67-8	
Vinyl chloride	**<2.4**	ug/kg	5.7	2.4	1	08/19/20 12:46	08/20/20 00:59	75-01-4	
Xylene (Total)	**<3.6**	ug/kg	17.0	3.6	1	08/19/20 12:46	08/20/20 00:59	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%.	70-130		1	08/19/20 12:46	08/20/20 00:59	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/19/20 12:46	08/20/20 00:59	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	08/19/20 12:46	08/20/20 00:59	17060-07-0	
Dibromofluoromethane (S)	106	%.	70-130		1	08/19/20 12:46	08/20/20 00:59	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
Acetone	**52.9J**	ug/L	100	31.8	10		08/18/20 20:33	67-64-1	B
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/18/20 20:33	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/18/20 20:33	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/18/20 20:33	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/18/20 20:33	74-83-9	1c
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/18/20 20:33	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/18/20 20:33	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/18/20 20:33	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/18/20 20:33	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/18/20 20:33	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/18/20 20:33	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/18/20 20:33	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/18/20 20:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/18/20 20:33	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/18/20 20:33	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/18/20 20:33	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/18/20 20:33	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/18/20 20:33	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/18/20 20:33	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/18/20 20:33	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/18/20 20:33	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/18/20 20:33	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/18/20 20:33	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/18/20 20:33	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 20:33	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/18/20 20:33	78-87-5	

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24)-FD **Lab ID: 30377174008** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/18/20 20:33	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/18/20 20:33	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/18/20 20:33	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/18/20 20:33	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/18/20 20:33	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/18/20 20:33	79-20-9	1c
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/18/20 20:33	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/18/20 20:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/18/20 20:33	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/18/20 20:33	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/18/20 20:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/18/20 20:33	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/18/20 20:33	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/18/20 20:33	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/18/20 20:33	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 20:33	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/18/20 20:33	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/18/20 20:33	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/18/20 20:33	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/18/20 20:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/18/20 20:33	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/18/20 20:33	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/18/20 20:33	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/18/20 20:33	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/18/20 20:33	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%.	70-130		10		08/18/20 20:33	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		08/18/20 20:33	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		08/18/20 20:33	460-00-4	
Dibromofluoromethane (S)	105	%.	70-130		10		08/18/20 20:33	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**23.7**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**79.8**	%			1	08/19/20 14:57	08/19/20 15:05		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (0-2) **Lab ID: 30377174009** Collected: 08/11/20 13:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**5.1**	mg/kg	1.1	0.44	1	08/17/20 10:08	08/19/20 09:19	7440-38-2	
Barium	**92.5**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 09:19	7440-39-3	
Cadmium	**0.069J**	mg/kg	0.34	0.052	1	08/17/20 10:08	08/19/20 09:19	7440-43-9	
Chromium	**22.5**	mg/kg	1.1	0.85	1	08/17/20 10:08	08/19/20 09:19	7440-47-3	
Lead	**21.1**	mg/kg	1.1	0.51	1	08/17/20 10:08	08/19/20 09:19	7439-92-1	
Selenium	**<0.67**	mg/kg	1.8	0.67	1	08/17/20 10:08	08/19/20 09:19	7782-49-2	
Silver	**<0.096**	mg/kg	0.67	0.096	1	08/17/20 10:08	08/19/20 09:19	7440-22-4	
Zinc	**55.0**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 09:19	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.065J**	mg/kg	0.12	0.0057	1	08/17/20 11:58	08/17/20 22:07	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00297**	mg/kg	0.00775	0.00297	1	08/17/20 20:48	08/18/20 06:23	120-12-7	
Acenaphthene	**<0.00270**	mg/kg	0.00775	0.00270	1	08/17/20 20:48	08/18/20 06:23	83-32-9	
Acenaphthylene	**<0.00279**	mg/kg	0.00775	0.00279	1	08/17/20 20:48	08/18/20 06:23	208-96-8	
Benzo(a)anthracene	**<0.00224**	mg/kg	0.00775	0.00224	1	08/17/20 20:48	08/18/20 06:23	56-55-3	
Benzo(a)pyrene	**<0.00231**	mg/kg	0.00775	0.00231	1	08/17/20 20:48	08/18/20 06:23	50-32-8	
Benzo(b)fluoranthene	**<0.00198**	mg/kg	0.00775	0.00198	1	08/17/20 20:48	08/18/20 06:23	205-99-2	
Benzo(g,h,i)perylene	**<0.00229**	mg/kg	0.00775	0.00229	1	08/17/20 20:48	08/18/20 06:23	191-24-2	
Benzo(k)fluoranthene	**<0.00278**	mg/kg	0.00775	0.00278	1	08/17/20 20:48	08/18/20 06:23	207-08-9	
Chrysene	**<0.00300**	mg/kg	0.00775	0.00300	1	08/17/20 20:48	08/18/20 06:23	218-01-9	
Dibenz(a,h)anthracene	**<0.00222**	mg/kg	0.00775	0.00222	1	08/17/20 20:48	08/18/20 06:23	53-70-3	
Fluoranthene	**<0.00293**	mg/kg	0.00775	0.00293	1	08/17/20 20:48	08/18/20 06:23	206-44-0	
Fluorene	**<0.00265**	mg/kg	0.00775	0.00265	1	08/17/20 20:48	08/18/20 06:23	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00234**	mg/kg	0.00775	0.00234	1	08/17/20 20:48	08/18/20 06:23	193-39-5	
Naphthalene	**<0.00527**	mg/kg	0.0258	0.00527	1	08/17/20 20:48	08/18/20 06:23	91-20-3	
Phenanthrene	**<0.00299**	mg/kg	0.00775	0.00299	1	08/17/20 20:48	08/18/20 06:23	85-01-8	
Pyrene	**<0.00258**	mg/kg	0.00775	0.00258	1	08/17/20 20:48	08/18/20 06:23	129-00-0	
1-Methylnaphthalene	**<0.00580**	mg/kg	0.0258	0.00580	1	08/17/20 20:48	08/18/20 06:23	90-12-0	
2-Methylnaphthalene	**<0.00552**	mg/kg	0.0258	0.00552	1	08/17/20 20:48	08/18/20 06:23	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	99.7	%	14.0-149		1	08/17/20 20:48	08/18/20 06:23	4165-60-0	
2-Fluorobiphenyl (S)	93.4	%	34.0-125		1	08/17/20 20:48	08/18/20 06:23	321-60-8	
Terphenyl-d14 (S)	95.3	%	23.0-120		1	08/17/20 20:48	08/18/20 06:23	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**20.5**	%	0.10	0.10	1		08/14/20 11:01		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (0-2) **Lab ID: 30377174009** Collected: 08/11/20 13:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**77.4**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**14.9**	mg/kg	1.0	0.40	1	08/17/20 10:08	08/19/20 09:22	7440-38-2	
Barium	**39.2**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 09:22	7440-39-3	
Cadmium	**0.064J**	mg/kg	0.31	0.047	1	08/17/20 10:08	08/19/20 09:22	7440-43-9	
Chromium	**9.0**	mg/kg	1.0	0.78	1	08/17/20 10:08	08/19/20 09:22	7440-47-3	
Lead	**6.2**	mg/kg	1.0	0.46	1	08/17/20 10:08	08/19/20 09:22	7439-92-1	
Selenium	**<0.62**	mg/kg	1.6	0.62	1	08/17/20 10:08	08/19/20 09:22	7782-49-2	
Silver	**<0.088**	mg/kg	0.62	0.088	1	08/17/20 10:08	08/19/20 09:22	7440-22-4	
Zinc	**16.3**	mg/kg	2.1	1.1	1	08/17/20 10:08	08/19/20 09:22	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.31 Pace Analytical Services - Greensburg								
Arsenic	**0.0061J**	mg/L	0.025	0.0033	1	08/19/20 12:07	08/21/20 08:40	7440-38-2	2c
Barium	**0.030J**	mg/L	0.050	0.00055	1	08/19/20 12:07	08/21/20 08:40	7440-39-3	2c,B
Cadmium	**<0.00027**	mg/L	0.015	0.00027	1	08/19/20 12:07	08/21/20 08:40	7440-43-9	2c
Chromium	**0.0058J**	mg/L	0.025	0.00067	1	08/19/20 12:07	08/21/20 08:40	7440-47-3	2c,B
Lead	**0.0035J**	mg/L	0.025	0.0031	1	08/19/20 12:07	08/21/20 08:40	7439-92-1	2c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/19/20 12:07	08/21/20 08:40	7782-49-2	2c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/19/20 12:07	08/21/20 08:40	7440-22-4	2c
Zinc	**0.010J**	mg/L	0.025	0.0034	1	08/19/20 12:07	08/21/20 08:40	7440-66-6	2c,B
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.31 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/19/20 14:17	08/19/20 22:47	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**<0.0052**	mg/kg	0.11	0.0052	1	08/17/20 11:58	08/17/20 22:09	7439-97-6	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**<0.00276**	mg/kg	0.00720	0.00276	1	08/17/20 20:48	08/18/20 06:44	120-12-7	
Acenaphthene	**<0.00251**	mg/kg	0.00720	0.00251	1	08/17/20 20:48	08/18/20 06:44	83-32-9	
Acenaphthylene	**<0.00259**	mg/kg	0.00720	0.00259	1	08/17/20 20:48	08/18/20 06:44	208-96-8	
Benzo(a)anthracene	**<0.00208**	mg/kg	0.00720	0.00208	1	08/17/20 20:48	08/18/20 06:44	56-55-3	
Benzo(a)pyrene	**<0.00215**	mg/kg	0.00720	0.00215	1	08/17/20 20:48	08/18/20 06:44	50-32-8	
Benzo(b)fluoranthene	**<0.00184**	mg/kg	0.00720	0.00184	1	08/17/20 20:48	08/18/20 06:44	205-99-2	
Benzo(g,h,i)perylene	**<0.00212**	mg/kg	0.00720	0.00212	1	08/17/20 20:48	08/18/20 06:44	191-24-2	
Benzo(k)fluoranthene	**<0.00258**	mg/kg	0.00720	0.00258	1	08/17/20 20:48	08/18/20 06:44	207-08-9	
Chrysene	**<0.00278**	mg/kg	0.00720	0.00278	1	08/17/20 20:48	08/18/20 06:44	218-01-9	
Dibenz(a,h)anthracene	**<0.00206**	mg/kg	0.00720	0.00206	1	08/17/20 20:48	08/18/20 06:44	53-70-3	
Fluoranthene	**<0.00272**	mg/kg	0.00720	0.00272	1	08/17/20 20:48	08/18/20 06:44	206-44-0	
Fluorene	**<0.00246**	mg/kg	0.00720	0.00246	1	08/17/20 20:48	08/18/20 06:44	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00217**	mg/kg	0.00720	0.00217	1	08/17/20 20:48	08/18/20 06:44	193-39-5	
Naphthalene	**<0.00490**	mg/kg	0.0240	0.00490	1	08/17/20 20:48	08/18/20 06:44	91-20-3	
Phenanthrene	**<0.00277**	mg/kg	0.00720	0.00277	1	08/17/20 20:48	08/18/20 06:44	85-01-8	
Pyrene	**<0.00240**	mg/kg	0.00720	0.00240	1	08/17/20 20:48	08/18/20 06:44	129-00-0	
1-Methylnaphthalene	**<0.00539**	mg/kg	0.0240	0.00539	1	08/17/20 20:48	08/18/20 06:44	90-12-0	
2-Methylnaphthalene	**<0.00512**	mg/kg	0.0240	0.00512	1	08/17/20 20:48	08/18/20 06:44	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	100	%	14.0-149		1	08/17/20 20:48	08/18/20 06:44	4165-60-0	
2-Fluorobiphenyl (S)	93.9	%	34.0-125		1	08/17/20 20:48	08/18/20 06:44	321-60-8	
Terphenyl-d14 (S)	97.0	%	23.0-120		1	08/17/20 20:48	08/18/20 06:44	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.86								
	Pace National - Mt. Juliet								
Anthracene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 13:11	120-12-7	
Acenaphthene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 13:11	83-32-9	
Acenaphthylene	**<0.0171**	ug/L	0.0500	0.0171	1	08/21/20 07:13	08/21/20 13:11	208-96-8	
Benzo(a)anthracene	**<0.0203**	ug/L	0.0500	0.0203	1	08/21/20 07:13	08/21/20 13:11	56-55-3	
Benzo(a)pyrene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 13:11	50-32-8	
Benzo(b)fluoranthene	**<0.0168**	ug/L	0.0500	0.0168	1	08/21/20 07:13	08/21/20 13:11	205-99-2	
Benzo(g,h,i)perylene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 13:11	191-24-2	ML,R1
Benzo(k)fluoranthene	**<0.0202**	ug/L	0.0500	0.0202	1	08/21/20 07:13	08/21/20 13:11	207-08-9	
Chrysene	**<0.0179**	ug/L	0.0500	0.0179	1	08/21/20 07:13	08/21/20 13:11	218-01-9	
Dibenz(a,h)anthracene	**<0.0160**	ug/L	0.0500	0.0160	1	08/21/20 07:13	08/21/20 13:11	53-70-3	ML,R1
Fluoranthene	**<0.0270**	ug/L	0.100	0.0270	1	08/21/20 07:13	08/21/20 13:11	206-44-0	
Fluorene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 13:11	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0158**	ug/L	0.0500	0.0158	1	08/21/20 07:13	08/21/20 13:11	193-39-5	ML,R1
Naphthalene	**<0.0917**	ug/L	0.250	0.0917	1	08/21/20 07:13	08/21/20 13:11	91-20-3	
Phenanthrene	**<0.0180**	ug/L	0.0500	0.0180	1	08/21/20 07:13	08/21/20 13:11	85-01-8	
Pyrene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 13:11	129-00-0	
1-Methylnaphthalene	**<0.0687**	ug/L	0.250	0.0687	1	08/21/20 07:13	08/21/20 13:11	90-12-0	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.86								
	Pace National - Mt. Juliet								
2-Methylnaphthalene	**<0.0674**	ug/L	0.250	0.0674	1	08/21/20 07:13	08/21/20 13:11	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	109	%	31.0-160		1	08/21/20 07:13	08/21/20 13:11	4165-60-0	
2-Fluorobiphenyl (S)	105	%	48.0-148		1	08/21/20 07:13	08/21/20 13:11	321-60-8	
Terphenyl-d14 (S)	98.5	%	37.0-146		1	08/21/20 07:13	08/21/20 13:11	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**23.7**	ug/kg	15.0	4.8	1	08/19/20 12:46	08/20/20 01:25	67-64-1	
Benzene	**<1.3**	ug/kg	7.5	1.3	1	08/19/20 12:46	08/20/20 01:25	71-43-2	
Bromodichloromethane	**<1.6**	ug/kg	7.5	1.6	1	08/19/20 12:46	08/20/20 01:25	75-27-4	
Bromoform	**<0.99**	ug/kg	7.5	0.99	1	08/19/20 12:46	08/20/20 01:25	75-25-2	
Bromomethane	**<2.8**	ug/kg	7.5	2.8	1	08/19/20 12:46	08/20/20 01:25	74-83-9	1c
2-Butanone (MEK)	**<1.4**	ug/kg	15.0	1.4	1	08/19/20 12:46	08/20/20 01:25	78-93-3	
Carbon disulfide	**<2.1**	ug/kg	7.5	2.1	1	08/19/20 12:46	08/20/20 01:25	75-15-0	
Carbon tetrachloride	**<2.6**	ug/kg	7.5	2.6	1	08/19/20 12:46	08/20/20 01:25	56-23-5	
Chlorobenzene	**<1.2**	ug/kg	7.5	1.2	1	08/19/20 12:46	08/20/20 01:25	108-90-7	
Chloroethane	**<3.1**	ug/kg	7.5	3.1	1	08/19/20 12:46	08/20/20 01:25	75-00-3	
Chloroform	**<2.2**	ug/kg	7.5	2.2	1	08/19/20 12:46	08/20/20 01:25	67-66-3	
Chloromethane	**<2.5**	ug/kg	7.5	2.5	1	08/19/20 12:46	08/20/20 01:25	74-87-3	
Cyclohexane	**<2.8**	ug/kg	15.0	2.8	1	08/19/20 12:46	08/20/20 01:25	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/kg	7.5	1.8	1	08/19/20 12:46	08/20/20 01:25	96-12-8	
Dibromochloromethane	**<1.2**	ug/kg	7.5	1.2	1	08/19/20 12:46	08/20/20 01:25	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/kg	7.5	1.2	1	08/19/20 12:46	08/20/20 01:25	106-93-4	
1,2-Dichlorobenzene	**<0.88**	ug/kg	7.5	0.88	1	08/19/20 12:46	08/20/20 01:25	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/kg	7.5	0.97	1	08/19/20 12:46	08/20/20 01:25	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/kg	7.5	1.1	1	08/19/20 12:46	08/20/20 01:25	106-46-7	
Dichlorodifluoromethane	**<4.1**	ug/kg	7.5	4.1	1	08/19/20 12:46	08/20/20 01:25	75-71-8	
1,1-Dichloroethane	**<1.9**	ug/kg	7.5	1.9	1	08/19/20 12:46	08/20/20 01:25	75-34-3	
1,2-Dichloroethane	**<1.9**	ug/kg	7.5	1.9	1	08/19/20 12:46	08/20/20 01:25	107-06-2	
1,1-Dichloroethene	**<2.8**	ug/kg	7.5	2.8	1	08/19/20 12:46	08/20/20 01:25	75-35-4	
cis-1,2-Dichloroethene	**9.3**	ug/kg	7.5	1.7	1	08/19/20 12:46	08/20/20 01:25	156-59-2	
trans-1,2-Dichloroethene	**<1.9**	ug/kg	7.5	1.9	1	08/19/20 12:46	08/20/20 01:25	156-60-5	
1,2-Dichloropropane	**<1.1**	ug/kg	7.5	1.1	1	08/19/20 12:46	08/20/20 01:25	78-87-5	
cis-1,3-Dichloropropene	**<0.75**	ug/kg	7.5	0.75	1	08/19/20 12:46	08/20/20 01:25	10061-01-5	
trans-1,3-Dichloropropene	**<1.6**	ug/kg	7.5	1.6	1	08/19/20 12:46	08/20/20 01:25	10061-02-6	
Ethylbenzene	**<1.6**	ug/kg	7.5	1.6	1	08/19/20 12:46	08/20/20 01:25	100-41-4	
2-Hexanone	**<1.5**	ug/kg	15.0	1.5	1	08/19/20 12:46	08/20/20 01:25	591-78-6	
Isopropylbenzene (Cumene)	**<1.7**	ug/kg	7.5	1.7	1	08/19/20 12:46	08/20/20 01:25	98-82-8	
Methyl acetate	**<1.6**	ug/kg	74.9	1.6	1	08/19/20 12:46	08/20/20 01:25	79-20-9	1c
Methylcyclohexane	**<4.7**	ug/kg	15.0	4.7	1	08/19/20 12:46	08/20/20 01:25	108-87-2	
Methylene Chloride	**<6.3**	ug/kg	7.5	6.3	1	08/19/20 12:46	08/20/20 01:25	75-09-2	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
4-Methyl-2-pentanone (MIBK)	**<1.7**	ug/kg	15.0	1.7	1	08/19/20 12:46	08/20/20 01:25	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/kg	7.5	1.0	1	08/19/20 12:46	08/20/20 01:25	1634-04-4	
Styrene	**<2.2**	ug/kg	7.5	2.2	1	08/19/20 12:46	08/20/20 01:25	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.88**	ug/kg	7.5	0.88	1	08/19/20 12:46	08/20/20 01:25	79-34-5	
Tetrachloroethene	**<2.6**	ug/kg	7.5	2.6	1	08/19/20 12:46	08/20/20 01:25	127-18-4	
Toluene	**<1.5**	ug/kg	7.5	1.5	1	08/19/20 12:46	08/20/20 01:25	108-88-3	
1,2,3-Trichlorobenzene	**<1.4**	ug/kg	7.5	1.4	1	08/19/20 12:46	08/20/20 01:25	87-61-6	
1,2,4-Trichlorobenzene	**<1.9**	ug/kg	7.5	1.9	1	08/19/20 12:46	08/20/20 01:25	120-82-1	
1,1,1-Trichloroethane	**<2.3**	ug/kg	7.5	2.3	1	08/19/20 12:46	08/20/20 01:25	71-55-6	
1,1,2-Trichloroethane	**<1.5**	ug/kg	7.5	1.5	1	08/19/20 12:46	08/20/20 01:25	79-00-5	
Trichloroethene	**13.5**	ug/kg	7.5	2.2	1	08/19/20 12:46	08/20/20 01:25	79-01-6	
Trichlorofluoromethane	**<3.2**	ug/kg	7.5	3.2	1	08/19/20 12:46	08/20/20 01:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<3.2**	ug/kg	74.9	3.2	1	08/19/20 12:46	08/20/20 01:25	76-13-1	
1,2,4-Trimethylbenzene	**<3.7**	ug/kg	7.5	3.7	1	08/19/20 12:46	08/20/20 01:25	95-63-6	
1,3,5-Trimethylbenzene	**<3.0**	ug/kg	7.5	3.0	1	08/19/20 12:46	08/20/20 01:25	108-67-8	
Vinyl chloride	**<3.2**	ug/kg	7.5	3.2	1	08/19/20 12:46	08/20/20 01:25	75-01-4	
Xylene (Total)	**<4.8**	ug/kg	22.5	4.8	1	08/19/20 12:46	08/20/20 01:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%.	70-130		1	08/19/20 12:46	08/20/20 01:25	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/19/20 12:46	08/20/20 01:25	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	08/19/20 12:46	08/20/20 01:25	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130		1	08/19/20 12:46	08/20/20 01:25	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Acetone	**<31.8**	ug/L	100	31.8	10		08/19/20 16:35	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 16:35	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 16:35	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 16:35	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 16:35	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 16:35	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 16:35	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 16:35	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 16:35	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 16:35	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 16:35	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 16:35	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 16:35	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 16:35	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 16:35	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 16:35	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 16:35	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 16:35	541-73-1	

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(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 16:35	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 16:35	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 16:35	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 16:35	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 16:35	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 16:35	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 16:35	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 16:35	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 16:35	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 16:35	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 16:35	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 16:35	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 16:35	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 16:35	79-20-9	
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 16:35	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 16:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 16:35	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 16:35	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 16:35	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 16:35	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 16:35	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 16:35	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 16:35	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 16:35	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 16:35	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 16:35	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 16:35	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 16:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 16:35	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 16:35	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 16:35	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 16:35	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 16:35	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	70-130		10		08/19/20 16:35	17060-07-0	
Toluene-d8 (S)	97	%.	70-130		10		08/19/20 16:35	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		10		08/19/20 16:35	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		08/19/20 16:35	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**13.3**	%	0.10	0.10	1		08/14/20 11:01		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**83.3**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB09 (0-2) **Lab ID: 30377174011** Collected: 08/11/20 14:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**38.3**	mg/kg	1.2	0.46	1	08/17/20 10:08	08/19/20 09:25	7440-38-2	
Barium	**216**	mg/kg	2.3	0.15	1	08/17/20 10:08	08/19/20 09:25	7440-39-3	
Cadmium	**3.1**	mg/kg	0.35	0.054	1	08/17/20 10:08	08/19/20 09:25	7440-43-9	
Chromium	**27.4**	mg/kg	1.2	0.88	1	08/17/20 10:08	08/19/20 09:25	7440-47-3	
Lead	**153**	mg/kg	1.2	0.52	1	08/17/20 10:08	08/19/20 09:25	7439-92-1	
Selenium	**<0.70**	mg/kg	1.9	0.70	1	08/17/20 10:08	08/19/20 09:25	7782-49-2	
Silver	**<0.099**	mg/kg	0.70	0.099	1	08/17/20 10:08	08/19/20 09:25	7440-22-4	
Zinc	**177**	mg/kg	2.3	1.3	1	08/17/20 10:08	08/19/20 09:25	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.31**	mg/kg	0.12	0.0060	1	08/17/20 11:58	08/17/20 22:11	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**0.00703**	mg/kg	0.00664	0.00255	1	08/17/20 20:46	08/18/20 06:18	120-12-7	
Acenaphthene	**0.00250J**	mg/kg	0.00664	0.00231	1	08/17/20 20:46	08/18/20 06:18	83-32-9	J
Acenaphthylene	**0.00840**	mg/kg	0.00664	0.00239	1	08/17/20 20:46	08/18/20 06:18	208-96-8	
Benzo(a)anthracene	**0.0394**	mg/kg	0.00664	0.00191	1	08/17/20 20:46	08/18/20 06:18	56-55-3	
Benzo(a)pyrene	**0.0357**	mg/kg	0.00664	0.00198	1	08/17/20 20:46	08/18/20 06:18	50-32-8	
Benzo(b)fluoranthene	**0.0596**	mg/kg	0.00664	0.00169	1	08/17/20 20:46	08/18/20 06:18	205-99-2	
Benzo(g,h,i)perylene	**0.0288**	mg/kg	0.00664	0.00196	1	08/17/20 20:46	08/18/20 06:18	191-24-2	
Benzo(k)fluoranthene	**0.0214**	mg/kg	0.00664	0.00238	1	08/17/20 20:46	08/18/20 06:18	207-08-9	
Chrysene	**0.0553**	mg/kg	0.00664	0.00257	1	08/17/20 20:46	08/18/20 06:18	218-01-9	
Dibenz(a,h)anthracene	**0.00730**	mg/kg	0.00664	0.00190	1	08/17/20 20:46	08/18/20 06:18	53-70-3	
Fluoranthene	**0.0719**	mg/kg	0.00664	0.00251	1	08/17/20 20:46	08/18/20 06:18	206-44-0	
Fluorene	**0.00326J**	mg/kg	0.00664	0.00227	1	08/17/20 20:46	08/18/20 06:18	86-73-7	J
Indeno(1,2,3-cd)pyrene	**0.0321**	mg/kg	0.00664	0.00200	1	08/17/20 20:46	08/18/20 06:18	193-39-5	
Naphthalene	**0.0475**	mg/kg	0.0221	0.00451	1	08/17/20 20:46	08/18/20 06:18	91-20-3	
Phenanthrene	**0.0900**	mg/kg	0.00664	0.00256	1	08/17/20 20:46	08/18/20 06:18	85-01-8	
Pyrene	**0.0712**	mg/kg	0.00664	0.00221	1	08/17/20 20:46	08/18/20 06:18	129-00-0	
1-Methylnaphthalene	**0.0726**	mg/kg	0.0221	0.00497	1	08/17/20 20:46	08/18/20 06:18	90-12-0	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (0-2) **Lab ID: 30377174011** Collected: 08/11/20 14:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
2-Methylnaphthalene	**0.0719**	mg/kg	0.0221	0.00473	1	08/17/20 20:46	08/18/20 06:18	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	86.0	%	14.0-149		1	08/17/20 20:46	08/18/20 06:18	4165-60-0	
2-Fluorobiphenyl (S)	86.6	%	34.0-125		1	08/17/20 20:46	08/18/20 06:18	321-60-8	
Terphenyl-d14 (S)	95.3	%	23.0-120		1	08/17/20 20:46	08/18/20 06:18	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**18.9**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**90.4**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**7.0**	mg/kg	1.2	0.46	1	08/17/20 10:08	08/19/20 09:28	7440-38-2	
Barium	**112**	mg/kg	2.3	0.15	1	08/17/20 10:08	08/19/20 09:28	7440-39-3	
Cadmium	**0.13J**	mg/kg	0.35	0.054	1	08/17/20 10:08	08/19/20 09:28	7440-43-9	
Chromium	**18.6**	mg/kg	1.2	0.89	1	08/17/20 10:08	08/19/20 09:28	7440-47-3	
Lead	**13.4**	mg/kg	1.2	0.53	1	08/17/20 10:08	08/19/20 09:28	7439-92-1	
Selenium	**<0.70**	mg/kg	1.9	0.70	1	08/17/20 10:08	08/19/20 09:28	7782-49-2	
Silver	**<0.099**	mg/kg	0.70	0.099	1	08/17/20 10:08	08/19/20 09:28	7440-22-4	
Zinc	**44.8**	mg/kg	2.3	1.3	1	08/17/20 10:08	08/19/20 09:28	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
	Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 7.34								
	Pace Analytical Services - Greensburg								
Arsenic	**0.0059J**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 09:09	7440-38-2	3c
Barium	**0.10**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 09:09	7440-39-3	3c
Cadmium	**0.00067J**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 09:09	7440-43-9	3c
Chromium	**0.018J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 09:09	7440-47-3	3c
Lead	**0.0065J**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 09:09	7439-92-1	3c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 09:09	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 09:09	7440-22-4	3c
Zinc	**0.039**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 09:09	7440-66-6	3c,B

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 7.34 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 22:00	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.015J**	mg/kg	0.12	0.0057	1	08/17/20 11:58	08/17/20 22:12	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00300**	mg/kg	0.00783	0.00300	1	08/17/20 20:46	08/18/20 05:09	120-12-7	
Acenaphthene	**<0.00273**	mg/kg	0.00783	0.00273	1	08/17/20 20:46	08/18/20 05:09	83-32-9	
Acenaphthylene	**<0.00282**	mg/kg	0.00783	0.00282	1	08/17/20 20:46	08/18/20 05:09	208-96-8	
Benzo(a)anthracene	**<0.00226**	mg/kg	0.00783	0.00226	1	08/17/20 20:46	08/18/20 05:09	56-55-3	
Benzo(a)pyrene	**<0.00234**	mg/kg	0.00783	0.00234	1	08/17/20 20:46	08/18/20 05:09	50-32-8	
Benzo(b)fluoranthene	**<0.00200**	mg/kg	0.00783	0.00200	1	08/17/20 20:46	08/18/20 05:09	205-99-2	
Benzo(g,h,i)perylene	**<0.00231**	mg/kg	0.00783	0.00231	1	08/17/20 20:46	08/18/20 05:09	191-24-2	
Benzo(k)fluoranthene	**<0.00281**	mg/kg	0.00783	0.00281	1	08/17/20 20:46	08/18/20 05:09	207-08-9	
Chrysene	**<0.00303**	mg/kg	0.00783	0.00303	1	08/17/20 20:46	08/18/20 05:09	218-01-9	
Dibenz(a,h)anthracene	**<0.00225**	mg/kg	0.00783	0.00225	1	08/17/20 20:46	08/18/20 05:09	53-70-3	
Fluoranthene	**<0.00296**	mg/kg	0.00783	0.00296	1	08/17/20 20:46	08/18/20 05:09	206-44-0	
Fluorene	**<0.00268**	mg/kg	0.00783	0.00268	1	08/17/20 20:46	08/18/20 05:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00236**	mg/kg	0.00783	0.00236	1	08/17/20 20:46	08/18/20 05:09	193-39-5	
Naphthalene	**<0.00533**	mg/kg	0.0261	0.00533	1	08/17/20 20:46	08/18/20 05:09	91-20-3	
Phenanthrene	**<0.00302**	mg/kg	0.00783	0.00302	1	08/17/20 20:46	08/18/20 05:09	85-01-8	
Pyrene	**<0.00261**	mg/kg	0.00783	0.00261	1	08/17/20 20:46	08/18/20 05:09	129-00-0	
1-Methylnaphthalene	**<0.00586**	mg/kg	0.0261	0.00586	1	08/17/20 20:46	08/18/20 05:09	90-12-0	
2-Methylnaphthalene	**<0.00557**	mg/kg	0.0261	0.00557	1	08/17/20 20:46	08/18/20 05:09	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	78.6	%	14.0-149		1	08/17/20 20:46	08/18/20 05:09	4165-60-0	
2-Fluorobiphenyl (S)	81.4	%	34.0-125		1	08/17/20 20:46	08/18/20 05:09	321-60-8	
Terphenyl-d14 (S)	89.1	%	23.0-120		1	08/17/20 20:46	08/18/20 05:09	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015 Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.63 Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 14:15	120-12-7	
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 14:15	83-32-9	
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 14:15	208-96-8	
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 14:15	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 14:15	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 14:15	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 14:15	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 14:15	207-08-9	

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(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.63								
	Pace National - Mt. Juliet								
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 14:15	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 14:15	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 14:15	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 14:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 14:15	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 14:15	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 14:15	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 14:15	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 14:15	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 14:15	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	100	%	31.0-160		2	08/21/20 07:13	08/21/20 14:15	4165-60-0	
2-Fluorobiphenyl (S)	81.5	%	48.0-148		2	08/21/20 07:13	08/21/20 14:15	321-60-8	
Terphenyl-d14 (S)	33.0	%	37.0-146		2	08/21/20 07:13	08/21/20 14:15	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**52.9**	ug/kg	8.5	2.7	1	08/19/20 12:46	08/20/20 01:51	67-64-1	
Benzene	**<0.74**	ug/kg	4.3	0.74	1	08/19/20 12:46	08/20/20 01:51	71-43-2	
Bromodichloromethane	**<0.93**	ug/kg	4.3	0.93	1	08/19/20 12:46	08/20/20 01:51	75-27-4	
Bromoform	**<0.56**	ug/kg	4.3	0.56	1	08/19/20 12:46	08/20/20 01:51	75-25-2	
Bromomethane	**<1.6**	ug/kg	4.3	1.6	1	08/19/20 12:46	08/20/20 01:51	74-83-9	1c
2-Butanone (MEK)	**4.3J**	ug/kg	8.5	0.78	1	08/19/20 12:46	08/20/20 01:51	78-93-3	
Carbon disulfide	**8.8**	ug/kg	4.3	1.2	1	08/19/20 12:46	08/20/20 01:51	75-15-0	
Carbon tetrachloride	**<1.5**	ug/kg	4.3	1.5	1	08/19/20 12:46	08/20/20 01:51	56-23-5	
Chlorobenzene	**<0.67**	ug/kg	4.3	0.67	1	08/19/20 12:46	08/20/20 01:51	108-90-7	
Chloroethane	**<1.8**	ug/kg	4.3	1.8	1	08/19/20 12:46	08/20/20 01:51	75-00-3	
Chloroform	**<1.3**	ug/kg	4.3	1.3	1	08/19/20 12:46	08/20/20 01:51	67-66-3	
Chloromethane	**<1.4**	ug/kg	4.3	1.4	1	08/19/20 12:46	08/20/20 01:51	74-87-3	
Cyclohexane	**<1.6**	ug/kg	8.5	1.6	1	08/19/20 12:46	08/20/20 01:51	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/kg	4.3	1.0	1	08/19/20 12:46	08/20/20 01:51	96-12-8	
Dibromochloromethane	**<0.67**	ug/kg	4.3	0.67	1	08/19/20 12:46	08/20/20 01:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.68**	ug/kg	4.3	0.68	1	08/19/20 12:46	08/20/20 01:51	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/kg	4.3	0.50	1	08/19/20 12:46	08/20/20 01:51	95-50-1	
1,3-Dichlorobenzene	**<0.55**	ug/kg	4.3	0.55	1	08/19/20 12:46	08/20/20 01:51	541-73-1	
1,4-Dichlorobenzene	**<0.61**	ug/kg	4.3	0.61	1	08/19/20 12:46	08/20/20 01:51	106-46-7	
Dichlorodifluoromethane	**<2.3**	ug/kg	4.3	2.3	1	08/19/20 12:46	08/20/20 01:51	75-71-8	
1,1-Dichloroethane	**<1.1**	ug/kg	4.3	1.1	1	08/19/20 12:46	08/20/20 01:51	75-34-3	
1,2-Dichloroethane	**<1.1**	ug/kg	4.3	1.1	1	08/19/20 12:46	08/20/20 01:51	107-06-2	
1,1-Dichloroethene	**<1.6**	ug/kg	4.3	1.6	1	08/19/20 12:46	08/20/20 01:51	75-35-4	
cis-1,2-Dichloroethene	**<0.99**	ug/kg	4.3	0.99	1	08/19/20 12:46	08/20/20 01:51	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/kg	4.3	1.1	1	08/19/20 12:46	08/20/20 01:51	156-60-5	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,2-Dichloropropane	**<0.61**	ug/kg	4.3	0.61	1	08/19/20 12:46	08/20/20 01:51	78-87-5	
cis-1,3-Dichloropropene	**<0.43**	ug/kg	4.3	0.43	1	08/19/20 12:46	08/20/20 01:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.89**	ug/kg	4.3	0.89	1	08/19/20 12:46	08/20/20 01:51	10061-02-6	
Ethylbenzene	**<0.92**	ug/kg	4.3	0.92	1	08/19/20 12:46	08/20/20 01:51	100-41-4	
2-Hexanone	**<0.84**	ug/kg	8.5	0.84	1	08/19/20 12:46	08/20/20 01:51	591-78-6	
Isopropylbenzene (Cumene)	**<0.99**	ug/kg	4.3	0.99	1	08/19/20 12:46	08/20/20 01:51	98-82-8	
Methyl acetate	**<0.93**	ug/kg	42.6	0.93	1	08/19/20 12:46	08/20/20 01:51	79-20-9	1c
Methylcyclohexane	**<2.7**	ug/kg	8.5	2.7	1	08/19/20 12:46	08/20/20 01:51	108-87-2	
Methylene Chloride	**<3.6**	ug/kg	4.3	3.6	1	08/19/20 12:46	08/20/20 01:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.95**	ug/kg	8.5	0.95	1	08/19/20 12:46	08/20/20 01:51	108-10-1	
Methyl-tert-butyl ether	**<0.57**	ug/kg	4.3	0.57	1	08/19/20 12:46	08/20/20 01:51	1634-04-4	
Styrene	**<1.2**	ug/kg	4.3	1.2	1	08/19/20 12:46	08/20/20 01:51	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/kg	4.3	0.50	1	08/19/20 12:46	08/20/20 01:51	79-34-5	
Tetrachloroethene	**<1.5**	ug/kg	4.3	1.5	1	08/19/20 12:46	08/20/20 01:51	127-18-4	
Toluene	**<0.84**	ug/kg	4.3	0.84	1	08/19/20 12:46	08/20/20 01:51	108-88-3	
1,2,3-Trichlorobenzene	**<0.81**	ug/kg	4.3	0.81	1	08/19/20 12:46	08/20/20 01:51	87-61-6	
1,2,4-Trichlorobenzene	**<1.1**	ug/kg	4.3	1.1	1	08/19/20 12:46	08/20/20 01:51	120-82-1	
1,1,1-Trichloroethane	**<1.3**	ug/kg	4.3	1.3	1	08/19/20 12:46	08/20/20 01:51	71-55-6	
1,1,2-Trichloroethane	**<0.84**	ug/kg	4.3	0.84	1	08/19/20 12:46	08/20/20 01:51	79-00-5	
Trichloroethene	**<1.3**	ug/kg	4.3	1.3	1	08/19/20 12:46	08/20/20 01:51	79-01-6	
Trichlorofluoromethane	**<1.8**	ug/kg	4.3	1.8	1	08/19/20 12:46	08/20/20 01:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.8**	ug/kg	42.6	1.8	1	08/19/20 12:46	08/20/20 01:51	76-13-1	
1,2,4-Trimethylbenzene	**<2.1**	ug/kg	4.3	2.1	1	08/19/20 12:46	08/20/20 01:51	95-63-6	
1,3,5-Trimethylbenzene	**<1.7**	ug/kg	4.3	1.7	1	08/19/20 12:46	08/20/20 01:51	108-67-8	
Vinyl chloride	**<1.8**	ug/kg	4.3	1.8	1	08/19/20 12:46	08/20/20 01:51	75-01-4	
Xylene (Total)	**<2.7**	ug/kg	12.8	2.7	1	08/19/20 12:46	08/20/20 01:51	1330-20-7	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	08/19/20 12:46	08/20/20 01:51	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/19/20 12:46	08/20/20 01:51	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	08/19/20 12:46	08/20/20 01:51	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130		1	08/19/20 12:46	08/20/20 01:51	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20 Pace Analytical Services - Greensburg								
Acetone	**<31.8**	ug/L	100	31.8	10		08/19/20 17:01	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 17:01	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 17:01	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 17:01	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:01	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 17:01	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 17:01	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 17:01	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 17:01	108-90-7	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 17:01	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 17:01	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 17:01	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 17:01	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 17:01	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 17:01	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 17:01	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:01	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 17:01	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 17:01	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 17:01	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 17:01	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 17:01	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:01	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:01	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:01	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 17:01	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 17:01	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 17:01	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 17:01	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 17:01	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:01	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 17:01	79-20-9	
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 17:01	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 17:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 17:01	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 17:01	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 17:01	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:01	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 17:01	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 17:01	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 17:01	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:01	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 17:01	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 17:01	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 17:01	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 17:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 17:01	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 17:01	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 17:01	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 17:01	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 17:01	1330-20-7	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	70-130		10		08/19/20 17:01	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		08/19/20 17:01	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		08/19/20 17:01	460-00-4	
Dibromofluoromethane (S)	97	%.	70-130		10		08/19/20 17:01	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**20.6**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**76.6**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB08 (0-2) **Lab ID: 30377174013** Collected: 08/11/20 14:40 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**6.7**	mg/kg	1.1	0.44	1	08/17/20 10:08	08/19/20 08:42	7440-38-2	
Barium	**113**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 08:42	7440-39-3	D6,ML
Cadmium	**0.16J**	mg/kg	0.34	0.052	1	08/17/20 10:08	08/19/20 08:42	7440-43-9	
Chromium	**16.6**	mg/kg	1.1	0.85	1	08/17/20 10:08	08/19/20 08:42	7440-47-3	
Lead	**29.4**	mg/kg	1.1	0.51	1	08/17/20 10:08	08/19/20 08:42	7439-92-1	D6
Selenium	**<0.67**	mg/kg	1.8	0.67	1	08/17/20 10:08	08/19/20 08:42	7782-49-2	
Silver	**<0.095**	mg/kg	0.67	0.095	1	08/17/20 10:08	08/19/20 08:42	7440-22-4	
Zinc	**53.9**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 08:42	7440-66-6	D6
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A								
	Pace Analytical Services - Greensburg								
Mercury	**0.059J**	mg/kg	0.12	0.0058	1	08/17/20 11:58	08/17/20 21:45	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**0.0191**	mg/kg	0.00687	0.00263	1	08/17/20 20:46	08/18/20 06:36	120-12-7	
Acenaphthene	**<0.00239**	mg/kg	0.00687	0.00239	1	08/17/20 20:46	08/18/20 06:36	83-32-9	
Acenaphthylene	**0.0107**	mg/kg	0.00687	0.00247	1	08/17/20 20:46	08/18/20 06:36	208-96-8	
Benzo(a)anthracene	**0.0922**	mg/kg	0.00687	0.00198	1	08/17/20 20:46	08/18/20 06:36	56-55-3	
Benzo(a)pyrene	**0.0640**	mg/kg	0.00687	0.00205	1	08/17/20 20:46	08/18/20 06:36	50-32-8	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (0-2) **Lab ID: 30377174013** Collected: 08/11/20 14:40 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Benzo(b)fluoranthene	**0.117**	mg/kg	0.00687	0.00175	1	08/17/20 20:46	08/18/20 06:36	205-99-2	
Benzo(g,h,i)perylene	**0.0437**	mg/kg	0.00687	0.00203	1	08/17/20 20:46	08/18/20 06:36	191-24-2	
Benzo(k)fluoranthene	**0.0512**	mg/kg	0.00687	0.00246	1	08/17/20 20:46	08/18/20 06:36	207-08-9	
Chrysene	**0.0822**	mg/kg	0.00687	0.00265	1	08/17/20 20:46	08/18/20 06:36	218-01-9	
Dibenz(a,h)anthracene	**0.0112**	mg/kg	0.00687	0.00197	1	08/17/20 20:46	08/18/20 06:36	53-70-3	
Fluoranthene	**0.127**	mg/kg	0.00687	0.00260	1	08/17/20 20:46	08/18/20 06:36	206-44-0	
Fluorene	**0.00783**	mg/kg	0.00687	0.00235	1	08/17/20 20:46	08/18/20 06:36	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0677**	mg/kg	0.00687	0.00207	1	08/17/20 20:46	08/18/20 06:36	193-39-5	
Naphthalene	**0.0404**	mg/kg	0.0229	0.00467	1	08/17/20 20:46	08/18/20 06:36	91-20-3	
Phenanthrene	**0.0687**	mg/kg	0.00687	0.00264	1	08/17/20 20:46	08/18/20 06:36	85-01-8	
Pyrene	**0.104**	mg/kg	0.00687	0.00229	1	08/17/20 20:46	08/18/20 06:36	129-00-0	
1-Methylnaphthalene	**0.0358**	mg/kg	0.0229	0.00514	1	08/17/20 20:46	08/18/20 06:36	90-12-0	
2-Methylnaphthalene	**0.0449**	mg/kg	0.0229	0.00489	1	08/17/20 20:46	08/18/20 06:36	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	83.9	%	14.0-149		1	08/17/20 20:46	08/18/20 06:36	4165-60-0	
2-Fluorobiphenyl (S)	83.5	%	34.0-125		1	08/17/20 20:46	08/18/20 06:36	321-60-8	
Terphenyl-d14 (S)	88.3	%	23.0-120		1	08/17/20 20:46	08/18/20 06:36	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**18.9**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**87.4**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**6.2**	mg/kg	1.1	0.44	1	08/17/20 10:08	08/19/20 09:31	7440-38-2	
Barium	**98.1**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 09:31	7440-39-3	
Cadmium	**0.063J**	mg/kg	0.33	0.051	1	08/17/20 10:08	08/19/20 09:31	7440-43-9	
Chromium	**16.2**	mg/kg	1.1	0.85	1	08/17/20 10:08	08/19/20 09:31	7440-47-3	
Lead	**13.7**	mg/kg	1.1	0.50	1	08/17/20 10:08	08/19/20 09:31	7439-92-1	
Selenium	**<0.67**	mg/kg	1.8	0.67	1	08/17/20 10:08	08/19/20 09:31	7782-49-2	
Silver	**<0.095**	mg/kg	0.67	0.095	1	08/17/20 10:08	08/19/20 09:31	7440-22-4	
Zinc	**41.6**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 09:31	7440-66-6	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 7.66 Pace Analytical Services - Greensburg								
Arsenic	**0.0042J**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 09:12	7440-38-2	3c
Barium	**0.052**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 09:12	7440-39-3	3c,B
Cadmium	**0.00057J**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 09:12	7440-43-9	3c
Chromium	**0.0078J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 09:12	7440-47-3	3c
Lead	**0.0045J**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 09:12	7439-92-1	3c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 09:12	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 09:12	7440-22-4	3c
Zinc	**0.019J**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 09:12	7440-66-6	3c,B
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 7.66 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 22:02	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**<0.0057**	mg/kg	0.12	0.0057	1	08/17/20 11:58	08/17/20 22:14	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**0.00576J**	mg/kg	0.00724	0.00278	1	08/18/20 17:17	08/19/20 00:32	120-12-7	J
Acenaphthene	**<0.00252**	mg/kg	0.00724	0.00252	1	08/18/20 17:17	08/19/20 00:32	83-32-9	
Acenaphthylene	**<0.00261**	mg/kg	0.00724	0.00261	1	08/18/20 17:17	08/19/20 00:32	208-96-8	
Benzo(a)anthracene	**0.00690J**	mg/kg	0.00724	0.00209	1	08/18/20 17:17	08/19/20 00:32	56-55-3	J
Benzo(a)pyrene	**0.00442J**	mg/kg	0.00724	0.00216	1	08/18/20 17:17	08/19/20 00:32	50-32-8	J
Benzo(b)fluoranthene	**0.00560J**	mg/kg	0.00724	0.00185	1	08/18/20 17:17	08/19/20 00:32	205-99-2	J
Benzo(g,h,i)perylene	**0.00220J**	mg/kg	0.00724	0.00214	1	08/18/20 17:17	08/19/20 00:32	191-24-2	J
Benzo(k)fluoranthene	**0.00430J**	mg/kg	0.00724	0.00259	1	08/18/20 17:17	08/19/20 00:32	207-08-9	J
Chrysene	**0.00537J**	mg/kg	0.00724	0.00280	1	08/18/20 17:17	08/19/20 00:32	218-01-9	J
Dibenz(a,h)anthracene	**<0.00208**	mg/kg	0.00724	0.00208	1	08/18/20 17:17	08/19/20 00:32	53-70-3	
Fluoranthene	**0.00613J**	mg/kg	0.00724	0.00274	1	08/18/20 17:17	08/19/20 00:32	206-44-0	J
Fluorene	**<0.00247**	mg/kg	0.00724	0.00247	1	08/18/20 17:17	08/19/20 00:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.00334J**	mg/kg	0.00724	0.00218	1	08/18/20 17:17	08/19/20 00:32	193-39-5	J
Naphthalene	**<0.00492**	mg/kg	0.0241	0.00492	1	08/18/20 17:17	08/19/20 00:32	91-20-3	
Phenanthrene	**0.00386J**	mg/kg	0.00724	0.00279	1	08/18/20 17:17	08/19/20 00:32	85-01-8	J
Pyrene	**0.00596J**	mg/kg	0.00724	0.00241	1	08/18/20 17:17	08/19/20 00:32	129-00-0	J
1-Methylnaphthalene	**<0.00542**	mg/kg	0.0241	0.00542	1	08/18/20 17:17	08/19/20 00:32	90-12-0	
2-Methylnaphthalene	**<0.00515**	mg/kg	0.0241	0.00515	1	08/18/20 17:17	08/19/20 00:32	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	85.2	%	14.0-149		1	08/18/20 17:17	08/19/20 00:32	4165-60-0	
2-Fluorobiphenyl (S)	88.5	%	34.0-125		1	08/18/20 17:17	08/19/20 00:32	321-60-8	
Terphenyl-d14 (S)	85.3	%	23.0-120		1	08/18/20 17:17	08/19/20 00:32	1718-51-0	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.34								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 14:36	120-12-7	
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 14:36	83-32-9	
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 14:36	208-96-8	
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 14:36	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 14:36	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 14:36	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 14:36	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 14:36	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 14:36	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 14:36	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 14:36	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 14:36	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 14:36	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 14:36	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 14:36	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 14:36	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 14:36	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 14:36	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	96.0	%	31.0-160		2	08/21/20 07:13	08/21/20 14:36	4165-60-0	
2-Fluorobiphenyl (S)	90.5	%	48.0-148		2	08/21/20 07:13	08/21/20 14:36	321-60-8	
Terphenyl-d14 (S)	64.5	%	37.0-146		2	08/21/20 07:13	08/21/20 14:36	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**27.7**	ug/kg	8.7	2.8	1	08/19/20 12:46	08/20/20 02:16	67-64-1	
Benzene	**<0.76**	ug/kg	4.4	0.76	1	08/19/20 12:46	08/20/20 02:16	71-43-2	
Bromodichloromethane	**<0.95**	ug/kg	4.4	0.95	1	08/19/20 12:46	08/20/20 02:16	75-27-4	
Bromoform	**<0.58**	ug/kg	4.4	0.58	1	08/19/20 12:46	08/20/20 02:16	75-25-2	
Bromomethane	**<1.6**	ug/kg	4.4	1.6	1	08/19/20 12:46	08/20/20 02:16	74-83-9	1c
2-Butanone (MEK)	**<0.80**	ug/kg	8.7	0.80	1	08/19/20 12:46	08/20/20 02:16	78-93-3	
Carbon disulfide	**9.7**	ug/kg	4.4	1.2	1	08/19/20 12:46	08/20/20 02:16	75-15-0	
Carbon tetrachloride	**<1.5**	ug/kg	4.4	1.5	1	08/19/20 12:46	08/20/20 02:16	56-23-5	
Chlorobenzene	**<0.68**	ug/kg	4.4	0.68	1	08/19/20 12:46	08/20/20 02:16	108-90-7	
Chloroethane	**<1.8**	ug/kg	4.4	1.8	1	08/19/20 12:46	08/20/20 02:16	75-00-3	
Chloroform	**<1.3**	ug/kg	4.4	1.3	1	08/19/20 12:46	08/20/20 02:16	67-66-3	
Chloromethane	**<1.5**	ug/kg	4.4	1.5	1	08/19/20 12:46	08/20/20 02:16	74-87-3	
Cyclohexane	**<1.6**	ug/kg	8.7	1.6	1	08/19/20 12:46	08/20/20 02:16	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/kg	4.4	1.0	1	08/19/20 12:46	08/20/20 02:16	96-12-8	
Dibromochloromethane	**<0.69**	ug/kg	4.4	0.69	1	08/19/20 12:46	08/20/20 02:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.70**	ug/kg	4.4	0.70	1	08/19/20 12:46	08/20/20 02:16	106-93-4	
1,2-Dichlorobenzene	**<0.52**	ug/kg	4.4	0.52	1	08/19/20 12:46	08/20/20 02:16	95-50-1	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
1,3-Dichlorobenzene	**<0.57**	ug/kg	4.4	0.57	1	08/19/20 12:46	08/20/20 02:16	541-73-1	
1,4-Dichlorobenzene	**<0.62**	ug/kg	4.4	0.62	1	08/19/20 12:46	08/20/20 02:16	106-46-7	
Dichlorodifluoromethane	**<2.4**	ug/kg	4.4	2.4	1	08/19/20 12:46	08/20/20 02:16	75-71-8	
1,1-Dichloroethane	**<1.1**	ug/kg	4.4	1.1	1	08/19/20 12:46	08/20/20 02:16	75-34-3	
1,2-Dichloroethane	**<1.1**	ug/kg	4.4	1.1	1	08/19/20 12:46	08/20/20 02:16	107-06-2	
1,1-Dichloroethene	**<1.6**	ug/kg	4.4	1.6	1	08/19/20 12:46	08/20/20 02:16	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/kg	4.4	1.0	1	08/19/20 12:46	08/20/20 02:16	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/kg	4.4	1.1	1	08/19/20 12:46	08/20/20 02:16	156-60-5	
1,2-Dichloropropane	**<0.63**	ug/kg	4.4	0.63	1	08/19/20 12:46	08/20/20 02:16	78-87-5	
cis-1,3-Dichloropropene	**<0.44**	ug/kg	4.4	0.44	1	08/19/20 12:46	08/20/20 02:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.91**	ug/kg	4.4	0.91	1	08/19/20 12:46	08/20/20 02:16	10061-02-6	
Ethylbenzene	**<0.94**	ug/kg	4.4	0.94	1	08/19/20 12:46	08/20/20 02:16	100-41-4	
2-Hexanone	**<0.86**	ug/kg	8.7	0.86	1	08/19/20 12:46	08/20/20 02:16	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/kg	4.4	1.0	1	08/19/20 12:46	08/20/20 02:16	98-82-8	
Methyl acetate	**<0.95**	ug/kg	43.7	0.95	1	08/19/20 12:46	08/20/20 02:16	79-20-9	1c
Methylcyclohexane	**<2.7**	ug/kg	8.7	2.7	1	08/19/20 12:46	08/20/20 02:16	108-87-2	
Methylene Chloride	**<3.7**	ug/kg	4.4	3.7	1	08/19/20 12:46	08/20/20 02:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.98**	ug/kg	8.7	0.98	1	08/19/20 12:46	08/20/20 02:16	108-10-1	
Methyl-tert-butyl ether	**<0.59**	ug/kg	4.4	0.59	1	08/19/20 12:46	08/20/20 02:16	1634-04-4	
Styrene	**<1.3**	ug/kg	4.4	1.3	1	08/19/20 12:46	08/20/20 02:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/kg	4.4	0.52	1	08/19/20 12:46	08/20/20 02:16	79-34-5	
Tetrachloroethene	**<1.5**	ug/kg	4.4	1.5	1	08/19/20 12:46	08/20/20 02:16	127-18-4	
Toluene	**<0.87**	ug/kg	4.4	0.87	1	08/19/20 12:46	08/20/20 02:16	108-88-3	
1,2,3-Trichlorobenzene	**<0.83**	ug/kg	4.4	0.83	1	08/19/20 12:46	08/20/20 02:16	87-61-6	
1,2,4-Trichlorobenzene	**<1.1**	ug/kg	4.4	1.1	1	08/19/20 12:46	08/20/20 02:16	120-82-1	
1,1,1-Trichloroethane	**<1.3**	ug/kg	4.4	1.3	1	08/19/20 12:46	08/20/20 02:16	71-55-6	
1,1,2-Trichloroethane	**<0.87**	ug/kg	4.4	0.87	1	08/19/20 12:46	08/20/20 02:16	79-00-5	
Trichloroethene	**<1.3**	ug/kg	4.4	1.3	1	08/19/20 12:46	08/20/20 02:16	79-01-6	
Trichlorofluoromethane	**<1.9**	ug/kg	4.4	1.9	1	08/19/20 12:46	08/20/20 02:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.9**	ug/kg	43.7	1.9	1	08/19/20 12:46	08/20/20 02:16	76-13-1	
1,2,4-Trimethylbenzene	**<2.1**	ug/kg	4.4	2.1	1	08/19/20 12:46	08/20/20 02:16	95-63-6	
1,3,5-Trimethylbenzene	**<1.8**	ug/kg	4.4	1.8	1	08/19/20 12:46	08/20/20 02:16	108-67-8	
Vinyl chloride	**<1.9**	ug/kg	4.4	1.9	1	08/19/20 12:46	08/20/20 02:16	75-01-4	
Xylene (Total)	**<2.8**	ug/kg	13.1	2.8	1	08/19/20 12:46	08/20/20 02:16	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	08/19/20 12:46	08/20/20 02:16	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	08/19/20 12:46	08/20/20 02:16	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	08/19/20 12:46	08/20/20 02:16	17060-07-0	
Dibromofluoromethane (S)	106	%.	70-130		1	08/19/20 12:46	08/20/20 02:16	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Acetone	**<31.8**	ug/L	100	31.8	10		08/19/20 17:27	67-64-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 17:27	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 17:27	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 17:27	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:27	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 17:27	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 17:27	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 17:27	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 17:27	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 17:27	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 17:27	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 17:27	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 17:27	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 17:27	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 17:27	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 17:27	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:27	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 17:27	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 17:27	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 17:27	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 17:27	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 17:27	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:27	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:27	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:27	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 17:27	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 17:27	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 17:27	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 17:27	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 17:27	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:27	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 17:27	79-20-9	
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 17:27	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 17:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 17:27	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 17:27	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 17:27	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:27	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 17:27	127-18-4	
Toluene	**25.8J**	ug/L	50.0	9.9	10		08/19/20 17:27	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 17:27	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:27	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 17:27	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 17:27	79-00-5	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 17:27	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 17:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 17:27	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 17:27	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 17:27	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 17:27	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 17:27	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	70-130		10		08/19/20 17:27	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		08/19/20 17:27	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		10		08/19/20 17:27	460-00-4	
Dibromofluoromethane (S)	100	%.	70-130		10		08/19/20 17:27	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**17.0**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**82.9**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB03 (0-2) **Lab ID: 30377174015** Collected: 08/11/20 15:10 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**68.5**	mg/kg	1.1	0.42	1	08/17/20 10:08	08/19/20 09:33	7440-38-2	
Barium	**176**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 09:33	7440-39-3	
Cadmium	**1.3**	mg/kg	0.32	0.050	1	08/17/20 10:08	08/19/20 09:33	7440-43-9	
Chromium	**107**	mg/kg	1.1	0.82	1	08/17/20 10:08	08/19/20 09:33	7440-47-3	
Lead	**91.9**	mg/kg	1.1	0.49	1	08/17/20 10:08	08/19/20 09:33	7439-92-1	
Selenium	**<0.65**	mg/kg	1.7	0.65	1	08/17/20 10:08	08/19/20 09:33	7782-49-2	
Silver	**<0.092**	mg/kg	0.65	0.092	1	08/17/20 10:08	08/19/20 09:33	7440-22-4	
Zinc	**82.8**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 09:33	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A								
	Pace Analytical Services - Greensburg								
Mercury	**0.049J**	mg/kg	0.11	0.0055	1	08/17/20 11:58	08/17/20 22:16	7439-97-6	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (0-2) **Lab ID: 30377174015** Collected: 08/11/20 15:10 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**0.0237**	mg/kg	0.00695	0.00266	1	08/18/20 17:17	08/19/20 06:27	120-12-7	
Acenaphthene	**0.00782**	mg/kg	0.00695	0.00242	1	08/18/20 17:17	08/19/20 06:27	83-32-9	
Acenaphthylene	**<0.00250**	mg/kg	0.00695	0.00250	1	08/18/20 17:17	08/19/20 06:27	208-96-8	
Benzo(a)anthracene	**0.124**	mg/kg	0.00695	0.00200	1	08/18/20 17:17	08/19/20 06:27	56-55-3	
Benzo(a)pyrene	**0.123**	mg/kg	0.00695	0.00207	1	08/18/20 17:17	08/19/20 06:27	50-32-8	
Benzo(b)fluoranthene	**0.171**	mg/kg	0.00695	0.00177	1	08/18/20 17:17	08/19/20 06:27	205-99-2	
Benzo(g,h,i)perylene	**0.101**	mg/kg	0.00695	0.00205	1	08/18/20 17:17	08/19/20 06:27	191-24-2	
Benzo(k)fluoranthene	**0.0563**	mg/kg	0.00695	0.00249	1	08/18/20 17:17	08/19/20 06:27	207-08-9	
Chrysene	**0.129**	mg/kg	0.00695	0.00269	1	08/18/20 17:17	08/19/20 06:27	218-01-9	
Dibenz(a,h)anthracene	**0.0265**	mg/kg	0.00695	0.00199	1	08/18/20 17:17	08/19/20 06:27	53-70-3	
Fluoranthene	**0.193**	mg/kg	0.00695	0.00263	1	08/18/20 17:17	08/19/20 06:27	206-44-0	
Fluorene	**0.00963**	mg/kg	0.00695	0.00237	1	08/18/20 17:17	08/19/20 06:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0841**	mg/kg	0.00695	0.00210	1	08/18/20 17:17	08/19/20 06:27	193-39-5	
Naphthalene	**0.0495**	mg/kg	0.0232	0.00473	1	08/18/20 17:17	08/19/20 06:27	91-20-3	
Phenanthrene	**0.118**	mg/kg	0.00695	0.00268	1	08/18/20 17:17	08/19/20 06:27	85-01-8	
Pyrene	**0.187**	mg/kg	0.00695	0.00232	1	08/18/20 17:17	08/19/20 06:27	129-00-0	
1-Methylnaphthalene	**0.0568**	mg/kg	0.0232	0.00520	1	08/18/20 17:17	08/19/20 06:27	90-12-0	
2-Methylnaphthalene	**0.0692**	mg/kg	0.0232	0.00495	1	08/18/20 17:17	08/19/20 06:27	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	87.3	%	14.0-149		1	08/18/20 17:17	08/19/20 06:27	4165-60-0	
2-Fluorobiphenyl (S)	86.7	%	34.0-125		1	08/18/20 17:17	08/19/20 06:27	321-60-8	
Terphenyl-d14 (S)	91.2	%	23.0-120		1	08/18/20 17:17	08/19/20 06:27	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**14.4**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**86.3**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**8.4**	mg/kg	1.0	0.40	1	08/17/20 10:08	08/19/20 09:36	7440-38-2	
Barium	**59.3**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 09:36	7440-39-3	
Cadmium	**0.095J**	mg/kg	0.31	0.047	1	08/17/20 10:08	08/19/20 09:36	7440-43-9	
Chromium	**13.4**	mg/kg	1.0	0.78	1	08/17/20 10:08	08/19/20 09:36	7440-47-3	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Lead	**7.6**	mg/kg	1.0	0.46	1	08/17/20 10:08	08/19/20 09:36	7439-92-1	
Selenium	**<0.62**	mg/kg	1.6	0.62	1	08/17/20 10:08	08/19/20 09:36	7782-49-2	
Silver	**<0.087**	mg/kg	0.62	0.087	1	08/17/20 10:08	08/19/20 09:36	7440-22-4	
Zinc	**28.1**	mg/kg	2.1	1.1	1	08/17/20 10:08	08/19/20 09:36	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 9.33 Pace Analytical Services - Greensburg								
Arsenic	**<0.0033**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 09:15	7440-38-2	3c
Barium	**0.013J**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 09:15	7440-39-3	3c,B
Cadmium	**0.00032J**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 09:15	7440-43-9	3c
Chromium	**0.0015J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 09:15	7440-47-3	3c
Lead	**<0.0031**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 09:15	7439-92-1	3c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 09:15	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 09:15	7440-22-4	3c
Zinc	**0.0049J**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 09:15	7440-66-6	3c,B
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 9.33 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 22:03	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.011J**	mg/kg	0.11	0.0053	1	08/17/20 11:58	08/17/20 22:17	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00275**	mg/kg	0.00716	0.00275	1	08/18/20 17:17	08/19/20 00:54	120-12-7	
Acenaphthene	**<0.00249**	mg/kg	0.00716	0.00249	1	08/18/20 17:17	08/19/20 00:54	83-32-9	
Acenaphthylene	**<0.00258**	mg/kg	0.00716	0.00258	1	08/18/20 17:17	08/19/20 00:54	208-96-8	
Benzo(a)anthracene	**<0.00207**	mg/kg	0.00716	0.00207	1	08/18/20 17:17	08/19/20 00:54	56-55-3	
Benzo(a)pyrene	**<0.00214**	mg/kg	0.00716	0.00214	1	08/18/20 17:17	08/19/20 00:54	50-32-8	
Benzo(b)fluoranthene	**<0.00183**	mg/kg	0.00716	0.00183	1	08/18/20 17:17	08/19/20 00:54	205-99-2	
Benzo(g,h,i)perylene	**<0.00211**	mg/kg	0.00716	0.00211	1	08/18/20 17:17	08/19/20 00:54	191-24-2	
Benzo(k)fluoranthene	**<0.00257**	mg/kg	0.00716	0.00257	1	08/18/20 17:17	08/19/20 00:54	207-08-9	
Chrysene	**<0.00277**	mg/kg	0.00716	0.00277	1	08/18/20 17:17	08/19/20 00:54	218-01-9	
Dibenz(a,h)anthracene	**<0.00205**	mg/kg	0.00716	0.00205	1	08/18/20 17:17	08/19/20 00:54	53-70-3	
Fluoranthene	**<0.00271**	mg/kg	0.00716	0.00271	1	08/18/20 17:17	08/19/20 00:54	206-44-0	
Fluorene	**<0.00245**	mg/kg	0.00716	0.00245	1	08/18/20 17:17	08/19/20 00:54	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00216**	mg/kg	0.00716	0.00216	1	08/18/20 17:17	08/19/20 00:54	193-39-5	
Naphthalene	**<0.00487**	mg/kg	0.0239	0.00487	1	08/18/20 17:17	08/19/20 00:54	91-20-3	
Phenanthrene	**<0.00276**	mg/kg	0.00716	0.00276	1	08/18/20 17:17	08/19/20 00:54	85-01-8	

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Pyrene	**<0.00239**	mg/kg	0.00716	0.00239	1	08/18/20 17:17	08/19/20 00:54	129-00-0	
1-Methylnaphthalene	**<0.00536**	mg/kg	0.0239	0.00536	1	08/18/20 17:17	08/19/20 00:54	90-12-0	
2-Methylnaphthalene	**<0.00510**	mg/kg	0.0239	0.00510	1	08/18/20 17:17	08/19/20 00:54	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	89.1	%	14.0-149		1	08/18/20 17:17	08/19/20 00:54	4165-60-0	
2-Fluorobiphenyl (S)	91.4	%	34.0-125		1	08/18/20 17:17	08/19/20 00:54	321-60-8	
Terphenyl-d14 (S)	91.0	%	23.0-120		1	08/18/20 17:17	08/19/20 00:54	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.46								
	Pace National - Mt. Juliet								
Anthracene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 14:58	120-12-7	
Acenaphthene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 14:58	83-32-9	
Acenaphthylene	**<0.0171**	ug/L	0.0500	0.0171	1	08/21/20 07:13	08/21/20 14:58	208-96-8	
Benzo(a)anthracene	**<0.0203**	ug/L	0.0500	0.0203	1	08/21/20 07:13	08/21/20 14:58	56-55-3	
Benzo(a)pyrene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 14:58	50-32-8	
Benzo(b)fluoranthene	**<0.0168**	ug/L	0.0500	0.0168	1	08/21/20 07:13	08/21/20 14:58	205-99-2	
Benzo(g,h,i)perylene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 14:58	191-24-2	
Benzo(k)fluoranthene	**<0.0202**	ug/L	0.0500	0.0202	1	08/21/20 07:13	08/21/20 14:58	207-08-9	
Chrysene	**<0.0179**	ug/L	0.0500	0.0179	1	08/21/20 07:13	08/21/20 14:58	218-01-9	
Dibenz(a,h)anthracene	**<0.0160**	ug/L	0.0500	0.0160	1	08/21/20 07:13	08/21/20 14:58	53-70-3	
Fluoranthene	**<0.0270**	ug/L	0.100	0.0270	1	08/21/20 07:13	08/21/20 14:58	206-44-0	
Fluorene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 14:58	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0158**	ug/L	0.0500	0.0158	1	08/21/20 07:13	08/21/20 14:58	193-39-5	
Naphthalene	**<0.0917**	ug/L	0.250	0.0917	1	08/21/20 07:13	08/21/20 14:58	91-20-3	
Phenanthrene	**<0.0180**	ug/L	0.0500	0.0180	1	08/21/20 07:13	08/21/20 14:58	85-01-8	
Pyrene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 14:58	129-00-0	
1-Methylnaphthalene	**<0.0687**	ug/L	0.250	0.0687	1	08/21/20 07:13	08/21/20 14:58	90-12-0	
2-Methylnaphthalene	**<0.0674**	ug/L	0.250	0.0674	1	08/21/20 07:13	08/21/20 14:58	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	104	%	31.0-160		1	08/21/20 07:13	08/21/20 14:58	4165-60-0	
2-Fluorobiphenyl (S)	100	%	48.0-148		1	08/21/20 07:13	08/21/20 14:58	321-60-8	
Terphenyl-d14 (S)	101	%	37.0-146		1	08/21/20 07:13	08/21/20 14:58	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**75.5**	ug/kg	9.0	2.9	1	08/19/20 12:46	08/20/20 02:42	67-64-1	
Benzene	**<0.78**	ug/kg	4.5	0.78	1	08/19/20 12:46	08/20/20 02:42	71-43-2	
Bromodichloromethane	**<0.98**	ug/kg	4.5	0.98	1	08/19/20 12:46	08/20/20 02:42	75-27-4	
Bromoform	**<0.60**	ug/kg	4.5	0.60	1	08/19/20 12:46	08/20/20 02:42	75-25-2	
Bromomethane	**<1.7**	ug/kg	4.5	1.7	1	08/19/20 12:46	08/20/20 02:42	74-83-9	1c
2-Butanone (MEK)	**7.5J**	ug/kg	9.0	0.82	1	08/19/20 12:46	08/20/20 02:42	78-93-3	
Carbon disulfide	**2.0J**	ug/kg	4.5	1.3	1	08/19/20 12:46	08/20/20 02:42	75-15-0	
Carbon tetrachloride	**<1.6**	ug/kg	4.5	1.6	1	08/19/20 12:46	08/20/20 02:42	56-23-5	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Chlorobenzene	**<0.70**	ug/kg	4.5	0.70	1	08/19/20 12:46	08/20/20 02:42	108-90-7	
Chloroethane	**<1.9**	ug/kg	4.5	1.9	1	08/19/20 12:46	08/20/20 02:42	75-00-3	
Chloroform	**<1.4**	ug/kg	4.5	1.4	1	08/19/20 12:46	08/20/20 02:42	67-66-3	
Chloromethane	**<1.5**	ug/kg	4.5	1.5	1	08/19/20 12:46	08/20/20 02:42	74-87-3	
Cyclohexane	**<1.7**	ug/kg	9.0	1.7	1	08/19/20 12:46	08/20/20 02:42	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.1**	ug/kg	4.5	1.1	1	08/19/20 12:46	08/20/20 02:42	96-12-8	
Dibromochloromethane	**<0.71**	ug/kg	4.5	0.71	1	08/19/20 12:46	08/20/20 02:42	124-48-1	
1,2-Dibromoethane (EDB)	**<0.72**	ug/kg	4.5	0.72	1	08/19/20 12:46	08/20/20 02:42	106-93-4	
1,2-Dichlorobenzene	**<0.53**	ug/kg	4.5	0.53	1	08/19/20 12:46	08/20/20 02:42	95-50-1	
1,3-Dichlorobenzene	**<0.59**	ug/kg	4.5	0.59	1	08/19/20 12:46	08/20/20 02:42	541-73-1	
1,4-Dichlorobenzene	**<0.64**	ug/kg	4.5	0.64	1	08/19/20 12:46	08/20/20 02:42	106-46-7	
Dichlorodifluoromethane	**<2.4**	ug/kg	4.5	2.4	1	08/19/20 12:46	08/20/20 02:42	75-71-8	
1,1-Dichloroethane	**<1.1**	ug/kg	4.5	1.1	1	08/19/20 12:46	08/20/20 02:42	75-34-3	
1,2-Dichloroethane	**<1.2**	ug/kg	4.5	1.2	1	08/19/20 12:46	08/20/20 02:42	107-06-2	
1,1-Dichloroethene	**<1.7**	ug/kg	4.5	1.7	1	08/19/20 12:46	08/20/20 02:42	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/kg	4.5	1.0	1	08/19/20 12:46	08/20/20 02:42	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/kg	4.5	1.1	1	08/19/20 12:46	08/20/20 02:42	156-60-5	
1,2-Dichloropropane	**<0.65**	ug/kg	4.5	0.65	1	08/19/20 12:46	08/20/20 02:42	78-87-5	
cis-1,3-Dichloropropene	**<0.45**	ug/kg	4.5	0.45	1	08/19/20 12:46	08/20/20 02:42	10061-01-5	
trans-1,3-Dichloropropene	**<0.94**	ug/kg	4.5	0.94	1	08/19/20 12:46	08/20/20 02:42	10061-02-6	
Ethylbenzene	**<0.97**	ug/kg	4.5	0.97	1	08/19/20 12:46	08/20/20 02:42	100-41-4	
2-Hexanone	**<0.88**	ug/kg	9.0	0.88	1	08/19/20 12:46	08/20/20 02:42	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/kg	4.5	1.0	1	08/19/20 12:46	08/20/20 02:42	98-82-8	
Methyl acetate	**<0.98**	ug/kg	45.1	0.98	1	08/19/20 12:46	08/20/20 02:42	79-20-9	1c
Methylcyclohexane	**<2.8**	ug/kg	9.0	2.8	1	08/19/20 12:46	08/20/20 02:42	108-87-2	
Methylene Chloride	**<3.8**	ug/kg	4.5	3.8	1	08/19/20 12:46	08/20/20 02:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.0**	ug/kg	9.0	1.0	1	08/19/20 12:46	08/20/20 02:42	108-10-1	
Methyl-tert-butyl ether	**<0.60**	ug/kg	4.5	0.60	1	08/19/20 12:46	08/20/20 02:42	1634-04-4	
Styrene	**<1.3**	ug/kg	4.5	1.3	1	08/19/20 12:46	08/20/20 02:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.53**	ug/kg	4.5	0.53	1	08/19/20 12:46	08/20/20 02:42	79-34-5	
Tetrachloroethene	**<1.6**	ug/kg	4.5	1.6	1	08/19/20 12:46	08/20/20 02:42	127-18-4	
Toluene	**<0.89**	ug/kg	4.5	0.89	1	08/19/20 12:46	08/20/20 02:42	108-88-3	
1,2,3-Trichlorobenzene	**<0.86**	ug/kg	4.5	0.86	1	08/19/20 12:46	08/20/20 02:42	87-61-6	
1,2,4-Trichlorobenzene	**<1.1**	ug/kg	4.5	1.1	1	08/19/20 12:46	08/20/20 02:42	120-82-1	
1,1,1-Trichloroethane	**<1.4**	ug/kg	4.5	1.4	1	08/19/20 12:46	08/20/20 02:42	71-55-6	
1,1,2-Trichloroethane	**<0.89**	ug/kg	4.5	0.89	1	08/19/20 12:46	08/20/20 02:42	79-00-5	
Trichloroethene	**<1.3**	ug/kg	4.5	1.3	1	08/19/20 12:46	08/20/20 02:42	79-01-6	
Trichlorofluoromethane	**<1.9**	ug/kg	4.5	1.9	1	08/19/20 12:46	08/20/20 02:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.9**	ug/kg	45.1	1.9	1	08/19/20 12:46	08/20/20 02:42	76-13-1	
1,2,4-Trimethylbenzene	**<2.2**	ug/kg	4.5	2.2	1	08/19/20 12:46	08/20/20 02:42	95-63-6	
1,3,5-Trimethylbenzene	**<1.8**	ug/kg	4.5	1.8	1	08/19/20 12:46	08/20/20 02:42	108-67-8	
Vinyl chloride	**<1.9**	ug/kg	4.5	1.9	1	08/19/20 12:46	08/20/20 02:42	75-01-4	
Xylene (Total)	**<2.9**	ug/kg	13.5	2.9	1	08/19/20 12:46	08/20/20 02:42	1330-20-7	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	08/19/20 12:46	08/20/20 02:42	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/19/20 12:46	08/20/20 02:42	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	08/19/20 12:46	08/20/20 02:42	17060-07-0	
Dibromofluoromethane (S)	105	%.	70-130		1	08/19/20 12:46	08/20/20 02:42	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20 Pace Analytical Services - Greensburg								
Acetone	**<31.8**	ug/L	100	31.8	10		08/19/20 17:53	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 17:53	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 17:53	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 17:53	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:53	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 17:53	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 17:53	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 17:53	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 17:53	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 17:53	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 17:53	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 17:53	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 17:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 17:53	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 17:53	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 17:53	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:53	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 17:53	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 17:53	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 17:53	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 17:53	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 17:53	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:53	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:53	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:53	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 17:53	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 17:53	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 17:53	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 17:53	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 17:53	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:53	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 17:53	79-20-9	
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 17:53	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 17:53	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 17:53	1634-04-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 17:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:53	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 17:53	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 17:53	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 17:53	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:53	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 17:53	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 17:53	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 17:53	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 17:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 17:53	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 17:53	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 17:53	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 17:53	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 17:53	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	70-130		10		08/19/20 17:53	17060-07-0	
Toluene-d8 (S)	98	%.	70-130		10		08/19/20 17:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		08/19/20 17:53	460-00-4	
Dibromofluoromethane (S)	99	%.	70-130		10		08/19/20 17:53	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**14.4**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**83.8**	%			1	08/19/20 12:12	08/19/20 13:40		

Sample: SB06 (0-2) **Lab ID: 30377174017** Collected: 08/11/20 15:45 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**12.1**	mg/kg	1.1	0.42	1	08/17/20 10:08	08/19/20 09:45	7440-38-2	
Barium	**194**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 09:45	7440-39-3	
Cadmium	**0.24J**	mg/kg	0.32	0.049	1	08/17/20 10:08	08/19/20 09:45	7440-43-9	
Chromium	**19.7**	mg/kg	1.1	0.81	1	08/17/20 10:08	08/19/20 09:45	7440-47-3	
Lead	**25.0**	mg/kg	1.1	0.48	1	08/17/20 10:08	08/19/20 09:45	7439-92-1	
Selenium	**<0.64**	mg/kg	1.7	0.64	1	08/17/20 10:08	08/19/20 09:45	7782-49-2	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (0-2) **Lab ID: 30377174017** Collected: 08/11/20 15:45 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Silver	**<0.091**	mg/kg	0.64	0.091	1	08/17/20 10:08	08/19/20 09:45	7440-22-4	
Zinc	**71.8**	mg/kg	2.1	1.2	1	08/17/20 10:08	08/19/20 09:45	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A								
	Pace Analytical Services - Greensburg								
Mercury	**0.061J**	mg/kg	0.12	0.0059	1	08/17/20 11:58	08/17/20 22:24	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**0.0864**	mg/kg	0.00745	0.00286	1	08/18/20 17:17	08/19/20 06:05	120-12-7	
Acenaphthene	**0.0344**	mg/kg	0.00745	0.00260	1	08/18/20 17:17	08/19/20 06:05	83-32-9	
Acenaphthylene	**<0.00268**	mg/kg	0.00745	0.00268	1	08/18/20 17:17	08/19/20 06:05	208-96-8	
Benzo(a)anthracene	**0.315**	mg/kg	0.00745	0.00215	1	08/18/20 17:17	08/19/20 06:05	56-55-3	
Benzo(a)pyrene	**0.272**	mg/kg	0.00745	0.00222	1	08/18/20 17:17	08/19/20 06:05	50-32-8	
Benzo(b)fluoranthene	**0.389**	mg/kg	0.00745	0.00190	1	08/18/20 17:17	08/19/20 06:05	205-99-2	
Benzo(g,h,i)perylene	**0.179**	mg/kg	0.00745	0.00220	1	08/18/20 17:17	08/19/20 06:05	191-24-2	
Benzo(k)fluoranthene	**0.111**	mg/kg	0.00745	0.00267	1	08/18/20 17:17	08/19/20 06:05	207-08-9	
Chrysene	**0.297**	mg/kg	0.00745	0.00288	1	08/18/20 17:17	08/19/20 06:05	218-01-9	
Dibenz(a,h)anthracene	**0.0503**	mg/kg	0.00745	0.00214	1	08/18/20 17:17	08/19/20 06:05	53-70-3	
Fluoranthene	**0.554**	mg/kg	0.0745	0.0282	10	08/18/20 17:17	08/19/20 07:21	206-44-0	
Fluorene	**0.0337**	mg/kg	0.00745	0.00255	1	08/18/20 17:17	08/19/20 06:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.169**	mg/kg	0.00745	0.00225	1	08/18/20 17:17	08/19/20 06:05	193-39-5	
Naphthalene	**0.0207J**	mg/kg	0.0248	0.00507	1	08/18/20 17:17	08/19/20 06:05	91-20-3	J
Phenanthrene	**0.324**	mg/kg	0.00745	0.00287	1	08/18/20 17:17	08/19/20 06:05	85-01-8	
Pyrene	**0.484**	mg/kg	0.00745	0.00248	1	08/18/20 17:17	08/19/20 06:05	129-00-0	
1-Methylnaphthalene	**0.0197J**	mg/kg	0.0248	0.00558	1	08/18/20 17:17	08/19/20 06:05	90-12-0	J
2-Methylnaphthalene	**0.0236J**	mg/kg	0.0248	0.00530	1	08/18/20 17:17	08/19/20 06:05	91-57-6	J
Surrogates									
Nitrobenzene-d5 (S)	77.4	%	14.0-149		1	08/18/20 17:17	08/19/20 06:05	4165-60-0	
Nitrobenzene-d5 (S)	69.5	%	14.0-149		10	08/18/20 17:17	08/19/20 07:21	4165-60-0	
2-Fluorobiphenyl (S)	82.1	%	34.0-125		1	08/18/20 17:17	08/19/20 06:05	321-60-8	
2-Fluorobiphenyl (S)	74.4	%	34.0-125		10	08/18/20 17:17	08/19/20 07:21	321-60-8	
Terphenyl-d14 (S)	91.2	%	23.0-120		1	08/18/20 17:17	08/19/20 06:05	1718-51-0	
Terphenyl-d14 (S)	81.0	%	23.0-120		10	08/18/20 17:17	08/19/20 07:21	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**20.7**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**80.5**	%			1	08/19/20 12:12	08/19/20 13:40		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (16-20) **Lab ID: 30377174018** Collected: 08/11/20 16:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**8.8**	mg/kg	1.1	0.44	1	08/17/20 10:08	08/19/20 09:48	7440-38-2	
Barium	**103**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 09:48	7440-39-3	
Cadmium	**0.17J**	mg/kg	0.34	0.052	1	08/17/20 10:08	08/19/20 09:48	7440-43-9	
Chromium	**13.7**	mg/kg	1.1	0.85	1	08/17/20 10:08	08/19/20 09:48	7440-47-3	
Lead	**16.1**	mg/kg	1.1	0.51	1	08/17/20 10:08	08/19/20 09:48	7439-92-1	
Selenium	**<0.67**	mg/kg	1.8	0.67	1	08/17/20 10:08	08/19/20 09:48	7782-49-2	
Silver	**<0.095**	mg/kg	0.67	0.095	1	08/17/20 10:08	08/19/20 09:48	7440-22-4	
Zinc	**46.4**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 09:48	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 8.27 Pace Analytical Services - Greensburg								
Arsenic	**0.0046J**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 09:24	7440-38-2	3c
Barium	**0.057**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 09:24	7440-39-3	3c,B
Cadmium	**0.00040J**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 09:24	7440-43-9	3c
Chromium	**0.0081J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 09:24	7440-47-3	3c
Lead	**0.0053J**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 09:24	7439-92-1	3c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 09:24	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 09:24	7440-22-4	3c
Zinc	**0.021J**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 09:24	7440-66-6	3c,B
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 8.27 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 22:05	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.031J**	mg/kg	0.12	0.0057	1	08/17/20 11:58	08/17/20 22:25	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00272**	mg/kg	0.00709	0.00272	1	08/18/20 17:17	08/19/20 01:16	120-12-7	
Acenaphthene	**<0.00247**	mg/kg	0.00709	0.00247	1	08/18/20 17:17	08/19/20 01:16	83-32-9	
Acenaphthylene	**<0.00255**	mg/kg	0.00709	0.00255	1	08/18/20 17:17	08/19/20 01:16	208-96-8	
Benzo(a)anthracene	**0.00443J**	mg/kg	0.00709	0.00204	1	08/18/20 17:17	08/19/20 01:16	56-55-3	J
Benzo(a)pyrene	**0.00462J**	mg/kg	0.00709	0.00211	1	08/18/20 17:17	08/19/20 01:16	50-32-8	J
Benzo(b)fluoranthene	**0.00586J**	mg/kg	0.00709	0.00181	1	08/18/20 17:17	08/19/20 01:16	205-99-2	J
Benzo(g,h,i)perylene	**0.00333J**	mg/kg	0.00709	0.00209	1	08/18/20 17:17	08/19/20 01:16	191-24-2	J
Benzo(k)fluoranthene	**<0.00254**	mg/kg	0.00709	0.00254	1	08/18/20 17:17	08/19/20 01:16	207-08-9	
Chrysene	**0.00484J**	mg/kg	0.00709	0.00274	1	08/18/20 17:17	08/19/20 01:16	218-01-9	J
Dibenz(a,h)anthracene	**<0.00203**	mg/kg	0.00709	0.00203	1	08/18/20 17:17	08/19/20 01:16	53-70-3	
Fluoranthene	**0.00991**	mg/kg	0.00709	0.00268	1	08/18/20 17:17	08/19/20 01:16	206-44-0	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (16-20) **Lab ID: 30377174018** Collected: 08/11/20 16:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Fluorene	**<0.00242**	mg/kg	0.00709	0.00242	1	08/18/20 17:17	08/19/20 01:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.00275J**	mg/kg	0.00709	0.00214	1	08/18/20 17:17	08/19/20 01:16	193-39-5	J
Naphthalene	**<0.00482**	mg/kg	0.0236	0.00482	1	08/18/20 17:17	08/19/20 01:16	91-20-3	
Phenanthrene	**0.00693J**	mg/kg	0.00709	0.00273	1	08/18/20 17:17	08/19/20 01:16	85-01-8	J
Pyrene	**0.00835**	mg/kg	0.00709	0.00236	1	08/18/20 17:17	08/19/20 01:16	129-00-0	
1-Methylnaphthalene	**<0.00530**	mg/kg	0.0236	0.00530	1	08/18/20 17:17	08/19/20 01:16	90-12-0	
2-Methylnaphthalene	**<0.00504**	mg/kg	0.0236	0.00504	1	08/18/20 17:17	08/19/20 01:16	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	78.8	%	14.0-149		1	08/18/20 17:17	08/19/20 01:16	4165-60-0	
2-Fluorobiphenyl (S)	82.3	%	34.0-125		1	08/18/20 17:17	08/19/20 01:16	321-60-8	
Terphenyl-d14 (S)	80.2	%	23.0-120		1	08/18/20 17:17	08/19/20 01:16	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.63								
	Pace National - Mt. Juliet								
Anthracene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 15:19	120-12-7	
Acenaphthene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 15:19	83-32-9	
Acenaphthylene	**<0.0171**	ug/L	0.0500	0.0171	1	08/21/20 07:13	08/21/20 15:19	208-96-8	
Benzo(a)anthracene	**<0.0203**	ug/L	0.0500	0.0203	1	08/21/20 07:13	08/21/20 15:19	56-55-3	
Benzo(a)pyrene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 15:19	50-32-8	
Benzo(b)fluoranthene	**<0.0168**	ug/L	0.0500	0.0168	1	08/21/20 07:13	08/21/20 15:19	205-99-2	
Benzo(g,h,i)perylene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 15:19	191-24-2	
Benzo(k)fluoranthene	**<0.0202**	ug/L	0.0500	0.0202	1	08/21/20 07:13	08/21/20 15:19	207-08-9	
Chrysene	**<0.0179**	ug/L	0.0500	0.0179	1	08/21/20 07:13	08/21/20 15:19	218-01-9	
Dibenz(a,h)anthracene	**<0.0160**	ug/L	0.0500	0.0160	1	08/21/20 07:13	08/21/20 15:19	53-70-3	
Fluoranthene	**<0.0270**	ug/L	0.100	0.0270	1	08/21/20 07:13	08/21/20 15:19	206-44-0	
Fluorene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 15:19	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0158**	ug/L	0.0500	0.0158	1	08/21/20 07:13	08/21/20 15:19	193-39-5	
Naphthalene	**<0.0917**	ug/L	0.250	0.0917	1	08/21/20 07:13	08/21/20 15:19	91-20-3	
Phenanthrene	**0.0225J**	ug/L	0.0500	0.0180	1	08/21/20 07:13	08/21/20 15:19	85-01-8	J
Pyrene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 15:19	129-00-0	
1-Methylnaphthalene	**<0.0687**	ug/L	0.250	0.0687	1	08/21/20 07:13	08/21/20 15:19	90-12-0	
2-Methylnaphthalene	**<0.0674**	ug/L	0.250	0.0674	1	08/21/20 07:13	08/21/20 15:19	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	102	%	31.0-160		1	08/21/20 07:13	08/21/20 15:19	4165-60-0	
2-Fluorobiphenyl (S)	96.5	%	48.0-148		1	08/21/20 07:13	08/21/20 15:19	321-60-8	
Terphenyl-d14 (S)	78.5	%	37.0-146		1	08/21/20 07:13	08/21/20 15:19	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**66.3**	ug/kg	33.5	10.6	1	08/20/20 11:16	08/20/20 13:09	67-64-1	
Benzene	**<2.9**	ug/kg	16.7	2.9	1	08/20/20 11:16	08/20/20 13:09	71-43-2	
Bromodichloromethane	**<3.6**	ug/kg	16.7	3.6	1	08/20/20 11:16	08/20/20 13:09	75-27-4	
Bromoform	**<2.2**	ug/kg	16.7	2.2	1	08/20/20 11:16	08/20/20 13:09	75-25-2	

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (16-20) **Lab ID: 30377174018** Collected: 08/11/20 16:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Bromomethane	**<6.2**	ug/kg	16.7	6.2	1	08/20/20 11:16	08/20/20 13:09	74-83-9	
2-Butanone (MEK)	**<3.0**	ug/kg	33.5	3.0	1	08/20/20 11:16	08/20/20 13:09	78-93-3	
Carbon disulfide	**6.7J**	ug/kg	16.7	4.8	1	08/20/20 11:16	08/20/20 13:09	75-15-0	
Carbon tetrachloride	**<5.8**	ug/kg	16.7	5.8	1	08/20/20 11:16	08/20/20 13:09	56-23-5	
Chlorobenzene	**<2.6**	ug/kg	16.7	2.6	1	08/20/20 11:16	08/20/20 13:09	108-90-7	
Chloroethane	**<7.0**	ug/kg	16.7	7.0	1	08/20/20 11:16	08/20/20 13:09	75-00-3	
Chloroform	**<5.0**	ug/kg	16.7	5.0	1	08/20/20 11:16	08/20/20 13:09	67-66-3	
Chloromethane	**<5.7**	ug/kg	16.7	5.7	1	08/20/20 11:16	08/20/20 13:09	74-87-3	
Cyclohexane	**<6.3**	ug/kg	33.5	6.3	1	08/20/20 11:16	08/20/20 13:09	110-82-7	
1,2-Dibromo-3-chloropropane	**<4.0**	ug/kg	16.7	4.0	1	08/20/20 11:16	08/20/20 13:09	96-12-8	
Dibromochloromethane	**<2.6**	ug/kg	16.7	2.6	1	08/20/20 11:16	08/20/20 13:09	124-48-1	
1,2-Dibromoethane (EDB)	**<2.7**	ug/kg	16.7	2.7	1	08/20/20 11:16	08/20/20 13:09	106-93-4	
1,2-Dichlorobenzene	**<2.0**	ug/kg	16.7	2.0	1	08/20/20 11:16	08/20/20 13:09	95-50-1	
1,3-Dichlorobenzene	**<2.2**	ug/kg	16.7	2.2	1	08/20/20 11:16	08/20/20 13:09	541-73-1	
1,4-Dichlorobenzene	**<2.4**	ug/kg	16.7	2.4	1	08/20/20 11:16	08/20/20 13:09	106-46-7	
Dichlorodifluoromethane	**<9.1**	ug/kg	16.7	9.1	1	08/20/20 11:16	08/20/20 13:09	75-71-8	CH,IH
1,1-Dichloroethane	**<4.2**	ug/kg	16.7	4.2	1	08/20/20 11:16	08/20/20 13:09	75-34-3	
1,2-Dichloroethane	**<4.3**	ug/kg	16.7	4.3	1	08/20/20 11:16	08/20/20 13:09	107-06-2	
1,1-Dichloroethene	**<6.2**	ug/kg	16.7	6.2	1	08/20/20 11:16	08/20/20 13:09	75-35-4	
cis-1,2-Dichloroethene	**<3.9**	ug/kg	16.7	3.9	1	08/20/20 11:16	08/20/20 13:09	156-59-2	
trans-1,2-Dichloroethene	**<4.2**	ug/kg	16.7	4.2	1	08/20/20 11:16	08/20/20 13:09	156-60-5	
1,2-Dichloropropane	**<2.4**	ug/kg	16.7	2.4	1	08/20/20 11:16	08/20/20 13:09	78-87-5	
cis-1,3-Dichloropropene	**<1.7**	ug/kg	16.7	1.7	1	08/20/20 11:16	08/20/20 13:09	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/kg	16.7	3.5	1	08/20/20 11:16	08/20/20 13:09	10061-02-6	
Ethylbenzene	**<3.6**	ug/kg	16.7	3.6	1	08/20/20 11:16	08/20/20 13:09	100-41-4	
2-Hexanone	**<3.3**	ug/kg	33.5	3.3	1	08/20/20 11:16	08/20/20 13:09	591-78-6	
Isopropylbenzene (Cumene)	**<3.9**	ug/kg	16.7	3.9	1	08/20/20 11:16	08/20/20 13:09	98-82-8	
Methyl acetate	**<3.6**	ug/kg	167	3.6	1	08/20/20 11:16	08/20/20 13:09	79-20-9	1c
Methylcyclohexane	**11.8J**	ug/kg	33.5	10.4	1	08/20/20 11:16	08/20/20 13:09	108-87-2	
Methylene Chloride	**<14.0**	ug/kg	16.7	14.0	1	08/20/20 11:16	08/20/20 13:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.7**	ug/kg	33.5	3.7	1	08/20/20 11:16	08/20/20 13:09	108-10-1	CL
Methyl-tert-butyl ether	**<2.2**	ug/kg	16.7	2.2	1	08/20/20 11:16	08/20/20 13:09	1634-04-4	
Styrene	**<4.8**	ug/kg	16.7	4.8	1	08/20/20 11:16	08/20/20 13:09	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.0**	ug/kg	16.7	2.0	1	08/20/20 11:16	08/20/20 13:09	79-34-5	
Tetrachloroethene	**<5.8**	ug/kg	16.7	5.8	1	08/20/20 11:16	08/20/20 13:09	127-18-4	
Toluene	**<3.3**	ug/kg	16.7	3.3	1	08/20/20 11:16	08/20/20 13:09	108-88-3	
1,2,3-Trichlorobenzene	**<3.2**	ug/kg	16.7	3.2	1	08/20/20 11:16	08/20/20 13:09	87-61-6	
1,2,4-Trichlorobenzene	**<4.2**	ug/kg	16.7	4.2	1	08/20/20 11:16	08/20/20 13:09	120-82-1	
1,1,1-Trichloroethane	**<5.1**	ug/kg	16.7	5.1	1	08/20/20 11:16	08/20/20 13:09	71-55-6	
1,1,2-Trichloroethane	**<3.3**	ug/kg	16.7	3.3	1	08/20/20 11:16	08/20/20 13:09	79-00-5	
Trichloroethene	**<4.9**	ug/kg	16.7	4.9	1	08/20/20 11:16	08/20/20 13:09	79-01-6	
Trichlorofluoromethane	**<7.2**	ug/kg	16.7	7.2	1	08/20/20 11:16	08/20/20 13:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<7.2**	ug/kg	167	7.2	1	08/20/20 11:16	08/20/20 13:09	76-13-1	
1,2,4-Trimethylbenzene	**<8.2**	ug/kg	16.7	8.2	1	08/20/20 11:16	08/20/20 13:09	95-63-6	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (16-20) **Lab ID: 30377174018** Collected: 08/11/20 16:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,3,5-Trimethylbenzene	**<6.8**	ug/kg	16.7	6.8	1	08/20/20 11:16	08/20/20 13:09	108-67-8	
Vinyl chloride	**<7.2**	ug/kg	16.7	7.2	1	08/20/20 11:16	08/20/20 13:09	75-01-4	
Xylene (Total)	**<10.6**	ug/kg	50.2	10.6	1	08/20/20 11:16	08/20/20 13:09	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%.	70-130		1	08/20/20 11:16	08/20/20 13:09	2037-26-5	
4-Bromofluorobenzene (S)	114	%.	70-130		1	08/20/20 11:16	08/20/20 13:09	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%.	70-130		1	08/20/20 11:16	08/20/20 13:09	17060-07-0	
Dibromofluoromethane (S)	107	%.	70-130		1	08/20/20 11:16	08/20/20 13:09	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20 Pace Analytical Services - Greensburg								
Acetone	**3490**	ug/L	100	31.8	10		08/19/20 18:19	67-64-1	C7
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 18:19	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 18:19	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 18:19	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 18:19	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 18:19	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 18:19	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 18:19	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 18:19	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 18:19	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 18:19	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 18:19	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 18:19	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 18:19	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 18:19	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 18:19	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 18:19	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 18:19	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 18:19	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 18:19	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 18:19	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 18:19	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 18:19	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 18:19	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 18:19	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 18:19	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 18:19	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 18:19	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 18:19	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 18:19	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 18:19	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 18:19	79-20-9	
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 18:19	108-87-2	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (16-20) **Lab ID: 30377174018** Collected: 08/11/20 16:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Methylene Chloride	**159**	ug/L	50.0	41.9	10		08/19/20 18:19	75-09-2	C7
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 18:19	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 18:19	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 18:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 18:19	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 18:19	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 18:19	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 18:19	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 18:19	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 18:19	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 18:19	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 18:19	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 18:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 18:19	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 18:19	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 18:19	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 18:19	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 18:19	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%.	70-130		10		08/19/20 18:19	17060-07-0	
Toluene-d8 (S)	97	%.	70-130		10		08/19/20 18:19	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		08/19/20 18:19	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		08/19/20 18:19	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**20.5**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**84.7**	%			1	08/19/20 12:12	08/19/20 13:40		

Sample: SB04 (0-4) **Lab ID: 30377174019** Collected: 08/11/20 16:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**11.2**	mg/kg	1.1	0.44	1	08/17/20 10:08	08/19/20 09:51	7440-38-2	
Barium	**78.7**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 09:51	7440-39-3	
Cadmium	**0.11J**	mg/kg	0.34	0.051	1	08/17/20 10:08	08/19/20 09:51	7440-43-9	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (0-4) **Lab ID: 30377174019** Collected: 08/11/20 16:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Chromium	**24.6**	mg/kg	1.1	0.85	1	08/17/20 10:08	08/19/20 09:51	7440-47-3	
Lead	**14.0**	mg/kg	1.1	0.50	1	08/17/20 10:08	08/19/20 09:51	7439-92-1	
Selenium	**<0.67**	mg/kg	1.8	0.67	1	08/17/20 10:08	08/19/20 09:51	7782-49-2	
Silver	**<0.095**	mg/kg	0.67	0.095	1	08/17/20 10:08	08/19/20 09:51	7440-22-4	
Zinc	**55.3**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 09:51	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.052J**	mg/kg	0.12	0.0059	1	08/17/20 11:58	08/17/20 22:27	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**0.00595J**	mg/kg	0.00767	0.00294	1	08/18/20 17:17	08/19/20 01:38	120-12-7	J
Acenaphthene	**<0.00267**	mg/kg	0.00767	0.00267	1	08/18/20 17:17	08/19/20 01:38	83-32-9	
Acenaphthylene	**<0.00276**	mg/kg	0.00767	0.00276	1	08/18/20 17:17	08/19/20 01:38	208-96-8	
Benzo(a)anthracene	**0.0224**	mg/kg	0.00767	0.00221	1	08/18/20 17:17	08/19/20 01:38	56-55-3	
Benzo(a)pyrene	**0.0233**	mg/kg	0.00767	0.00229	1	08/18/20 17:17	08/19/20 01:38	50-32-8	
Benzo(b)fluoranthene	**0.0308**	mg/kg	0.00767	0.00195	1	08/18/20 17:17	08/19/20 01:38	205-99-2	
Benzo(g,h,i)perylene	**0.0164**	mg/kg	0.00767	0.00226	1	08/18/20 17:17	08/19/20 01:38	191-24-2	
Benzo(k)fluoranthene	**0.00957**	mg/kg	0.00767	0.00275	1	08/18/20 17:17	08/19/20 01:38	207-08-9	
Chrysene	**0.0207**	mg/kg	0.00767	0.00296	1	08/18/20 17:17	08/19/20 01:38	218-01-9	
Dibenz(a,h)anthracene	**0.00344J**	mg/kg	0.00767	0.00220	1	08/18/20 17:17	08/19/20 01:38	53-70-3	J
Fluoranthene	**0.0382**	mg/kg	0.00767	0.00290	1	08/18/20 17:17	08/19/20 01:38	206-44-0	
Fluorene	**<0.00262**	mg/kg	0.00767	0.00262	1	08/18/20 17:17	08/19/20 01:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0144**	mg/kg	0.00767	0.00231	1	08/18/20 17:17	08/19/20 01:38	193-39-5	
Naphthalene	**<0.00521**	mg/kg	0.0256	0.00521	1	08/18/20 17:17	08/19/20 01:38	91-20-3	
Phenanthrene	**0.0204**	mg/kg	0.00767	0.00295	1	08/18/20 17:17	08/19/20 01:38	85-01-8	
Pyrene	**0.0331**	mg/kg	0.00767	0.00256	1	08/18/20 17:17	08/19/20 01:38	129-00-0	
1-Methylnaphthalene	**<0.00574**	mg/kg	0.0256	0.00574	1	08/18/20 17:17	08/19/20 01:38	90-12-0	
2-Methylnaphthalene	**<0.00546**	mg/kg	0.0256	0.00546	1	08/18/20 17:17	08/19/20 01:38	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	83.0	%	14.0-149		1	08/18/20 17:17	08/19/20 01:38	4165-60-0	
2-Fluorobiphenyl (S)	87.5	%	34.0-125		1	08/18/20 17:17	08/19/20 01:38	321-60-8	
Terphenyl-d14 (S)	85.8	%	23.0-120		1	08/18/20 17:17	08/19/20 01:38	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**22.9**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**78.3**	%			1	08/19/20 12:12	08/19/20 13:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (20-24) **Lab ID: 30377174020** Collected: 08/11/20 17:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**5.3**	mg/kg	1.2	0.45	1	08/17/20 10:09	08/19/20 08:12	7440-38-2	
Barium	**101**	mg/kg	2.3	0.15	1	08/17/20 10:09	08/19/20 08:12	7440-39-3	MH
Cadmium	**0.13J**	mg/kg	0.35	0.053	1	08/17/20 10:09	08/19/20 08:12	7440-43-9	
Chromium	**17.0**	mg/kg	1.2	0.88	1	08/17/20 10:09	08/19/20 08:12	7440-47-3	
Lead	**9.6**	mg/kg	1.2	0.52	1	08/17/20 10:09	08/19/20 08:12	7439-92-1	
Selenium	**<0.70**	mg/kg	1.9	0.70	1	08/17/20 10:09	08/19/20 08:12	7782-49-2	
Silver	**<0.099**	mg/kg	0.70	0.099	1	08/17/20 10:09	08/19/20 08:12	7440-22-4	
Zinc	**40.5**	mg/kg	2.3	1.3	1	08/17/20 10:09	08/19/20 08:12	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 8.52 Pace Analytical Services - Greensburg								
Arsenic	**0.0043J**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 08:58	7440-38-2	3c
Barium	**0.10**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 08:58	7440-39-3	3c
Cadmium	**0.00049J**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 08:58	7440-43-9	3c
Chromium	**0.015J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 08:58	7440-47-3	3c
Lead	**0.0086J**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 08:58	7439-92-1	3c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 08:58	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 08:58	7440-22-4	3c
Zinc	**0.031**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 08:58	7440-66-6	3c,B
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 8.52 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 21:55	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.023J**	mg/kg	0.12	0.0059	1	08/17/20 12:00	08/17/20 22:32	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00284**	mg/kg	0.00740	0.00284	1	08/18/20 17:17	08/19/20 02:01	120-12-7	
Acenaphthene	**<0.00258**	mg/kg	0.00740	0.00258	1	08/18/20 17:17	08/19/20 02:01	83-32-9	
Acenaphthylene	**<0.00266**	mg/kg	0.00740	0.00266	1	08/18/20 17:17	08/19/20 02:01	208-96-8	
Benzo(a)anthracene	**<0.00213**	mg/kg	0.00740	0.00213	1	08/18/20 17:17	08/19/20 02:01	56-55-3	
Benzo(a)pyrene	**<0.00221**	mg/kg	0.00740	0.00221	1	08/18/20 17:17	08/19/20 02:01	50-32-8	
Benzo(b)fluoranthene	**<0.00189**	mg/kg	0.00740	0.00189	1	08/18/20 17:17	08/19/20 02:01	205-99-2	
Benzo(g,h,i)perylene	**<0.00218**	mg/kg	0.00740	0.00218	1	08/18/20 17:17	08/19/20 02:01	191-24-2	
Benzo(k)fluoranthene	**<0.00265**	mg/kg	0.00740	0.00265	1	08/18/20 17:17	08/19/20 02:01	207-08-9	
Chrysene	**<0.00286**	mg/kg	0.00740	0.00286	1	08/18/20 17:17	08/19/20 02:01	218-01-9	
Dibenz(a,h)anthracene	**<0.00212**	mg/kg	0.00740	0.00212	1	08/18/20 17:17	08/19/20 02:01	53-70-3	
Fluoranthene	**<0.00280**	mg/kg	0.00740	0.00280	1	08/18/20 17:17	08/19/20 02:01	206-44-0	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (20-24) **Lab ID: 30377174020** Collected: 08/11/20 17:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Fluorene	**<0.00253**	mg/kg	0.00740	0.00253	1	08/18/20 17:17	08/19/20 02:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00223**	mg/kg	0.00740	0.00223	1	08/18/20 17:17	08/19/20 02:01	193-39-5	
Naphthalene	**<0.00503**	mg/kg	0.0247	0.00503	1	08/18/20 17:17	08/19/20 02:01	91-20-3	
Phenanthrene	**<0.00285**	mg/kg	0.00740	0.00285	1	08/18/20 17:17	08/19/20 02:01	85-01-8	
Pyrene	**<0.00247**	mg/kg	0.00740	0.00247	1	08/18/20 17:17	08/19/20 02:01	129-00-0	
1-Methylnaphthalene	**<0.00554**	mg/kg	0.0247	0.00554	1	08/18/20 17:17	08/19/20 02:01	90-12-0	
2-Methylnaphthalene	**<0.00527**	mg/kg	0.0247	0.00527	1	08/18/20 17:17	08/19/20 02:01	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	85.5	%	14.0-149		1	08/18/20 17:17	08/19/20 02:01	4165-60-0	
2-Fluorobiphenyl (S)	88.6	%	34.0-125		1	08/18/20 17:17	08/19/20 02:01	321-60-8	
Terphenyl-d14 (S)	90.9	%	23.0-120		1	08/18/20 17:17	08/19/20 02:01	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.71								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 15:40	120-12-7	
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 15:40	83-32-9	
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 15:40	208-96-8	
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 15:40	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 15:40	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 15:40	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 15:40	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 15:40	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 15:40	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 15:40	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 15:40	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 15:40	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 15:40	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 15:40	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 15:40	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 15:40	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 15:40	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 15:40	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	93.0	%	31.0-160		2	08/21/20 07:13	08/21/20 15:40	4165-60-0	
2-Fluorobiphenyl (S)	87.0	%	48.0-148		2	08/21/20 07:13	08/21/20 15:40	321-60-8	
Terphenyl-d14 (S)	28.2	%	37.0-146		2	08/21/20 07:13	08/21/20 15:40	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**16.4J**	ug/kg	17.2	5.5	1	08/20/20 11:16	08/20/20 13:31	67-64-1	B,R1
Benzene	**<1.5**	ug/kg	8.6	1.5	1	08/20/20 11:16	08/20/20 13:31	71-43-2	
Bromodichloromethane	**<1.9**	ug/kg	8.6	1.9	1	08/20/20 11:16	08/20/20 13:31	75-27-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (20-24) **Lab ID: 30377174020** Collected: 08/11/20 17:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Bromoform	**<1.1**	ug/kg	8.6	1.1	1	08/20/20 11:16	08/20/20 13:31	75-25-2	
Bromomethane	**<3.2**	ug/kg	8.6	3.2	1	08/20/20 11:16	08/20/20 13:31	74-83-9	
2-Butanone (MEK)	**<1.6**	ug/kg	17.2	1.6	1	08/20/20 11:16	08/20/20 13:31	78-93-3	R1
Carbon disulfide	**<2.4**	ug/kg	8.6	2.4	1	08/20/20 11:16	08/20/20 13:31	75-15-0	
Carbon tetrachloride	**<3.0**	ug/kg	8.6	3.0	1	08/20/20 11:16	08/20/20 13:31	56-23-5	
Chlorobenzene	**<1.3**	ug/kg	8.6	1.3	1	08/20/20 11:16	08/20/20 13:31	108-90-7	
Chloroethane	**<3.6**	ug/kg	8.6	3.6	1	08/20/20 11:16	08/20/20 13:31	75-00-3	
Chloroform	**<2.6**	ug/kg	8.6	2.6	1	08/20/20 11:16	08/20/20 13:31	67-66-3	
Chloromethane	**<2.9**	ug/kg	8.6	2.9	1	08/20/20 11:16	08/20/20 13:31	74-87-3	
Cyclohexane	**<3.2**	ug/kg	17.2	3.2	1	08/20/20 11:16	08/20/20 13:31	110-82-7	
1,2-Dibromo-3-chloropropane	**<2.1**	ug/kg	8.6	2.1	1	08/20/20 11:16	08/20/20 13:31	96-12-8	
Dibromochloromethane	**<1.4**	ug/kg	8.6	1.4	1	08/20/20 11:16	08/20/20 13:31	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/kg	8.6	1.4	1	08/20/20 11:16	08/20/20 13:31	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/kg	8.6	1.0	1	08/20/20 11:16	08/20/20 13:31	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/kg	8.6	1.1	1	08/20/20 11:16	08/20/20 13:31	541-73-1	
1,4-Dichlorobenzene	**<1.2**	ug/kg	8.6	1.2	1	08/20/20 11:16	08/20/20 13:31	106-46-7	
Dichlorodifluoromethane	**<4.7**	ug/kg	8.6	4.7	1	08/20/20 11:16	08/20/20 13:31	75-71-8	CH,IH
1,1-Dichloroethane	**<2.2**	ug/kg	8.6	2.2	1	08/20/20 11:16	08/20/20 13:31	75-34-3	
1,2-Dichloroethane	**<2.2**	ug/kg	8.6	2.2	1	08/20/20 11:16	08/20/20 13:31	107-06-2	
1,1-Dichloroethene	**<3.2**	ug/kg	8.6	3.2	1	08/20/20 11:16	08/20/20 13:31	75-35-4	
cis-1,2-Dichloroethene	**<2.0**	ug/kg	8.6	2.0	1	08/20/20 11:16	08/20/20 13:31	156-59-2	
trans-1,2-Dichloroethene	**<2.2**	ug/kg	8.6	2.2	1	08/20/20 11:16	08/20/20 13:31	156-60-5	
1,2-Dichloropropane	**<1.2**	ug/kg	8.6	1.2	1	08/20/20 11:16	08/20/20 13:31	78-87-5	
cis-1,3-Dichloropropene	**<0.86**	ug/kg	8.6	0.86	1	08/20/20 11:16	08/20/20 13:31	10061-01-5	
trans-1,3-Dichloropropene	**<1.8**	ug/kg	8.6	1.8	1	08/20/20 11:16	08/20/20 13:31	10061-02-6	
Ethylbenzene	**<1.9**	ug/kg	8.6	1.9	1	08/20/20 11:16	08/20/20 13:31	100-41-4	
2-Hexanone	**<1.7**	ug/kg	17.2	1.7	1	08/20/20 11:16	08/20/20 13:31	591-78-6	
Isopropylbenzene (Cumene)	**<2.0**	ug/kg	8.6	2.0	1	08/20/20 11:16	08/20/20 13:31	98-82-8	
Methyl acetate	**<1.9**	ug/kg	86.2	1.9	1	08/20/20 11:16	08/20/20 13:31	79-20-9	1c
Methylcyclohexane	**<5.4**	ug/kg	17.2	5.4	1	08/20/20 11:16	08/20/20 13:31	108-87-2	
Methylene Chloride	**<7.2**	ug/kg	8.6	7.2	1	08/20/20 11:16	08/20/20 13:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.9**	ug/kg	17.2	1.9	1	08/20/20 11:16	08/20/20 13:31	108-10-1	CL
Methyl-tert-butyl ether	**<1.2**	ug/kg	8.6	1.2	1	08/20/20 11:16	08/20/20 13:31	1634-04-4	
Styrene	**<2.5**	ug/kg	8.6	2.5	1	08/20/20 11:16	08/20/20 13:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/kg	8.6	1.0	1	08/20/20 11:16	08/20/20 13:31	79-34-5	
Tetrachloroethene	**<3.0**	ug/kg	8.6	3.0	1	08/20/20 11:16	08/20/20 13:31	127-18-4	
Toluene	**<1.7**	ug/kg	8.6	1.7	1	08/20/20 11:16	08/20/20 13:31	108-88-3	
1,2,3-Trichlorobenzene	**<1.6**	ug/kg	8.6	1.6	1	08/20/20 11:16	08/20/20 13:31	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/kg	8.6	2.2	1	08/20/20 11:16	08/20/20 13:31	120-82-1	
1,1,1-Trichloroethane	**<2.6**	ug/kg	8.6	2.6	1	08/20/20 11:16	08/20/20 13:31	71-55-6	
1,1,2-Trichloroethane	**<1.7**	ug/kg	8.6	1.7	1	08/20/20 11:16	08/20/20 13:31	79-00-5	
Trichloroethene	**<2.5**	ug/kg	8.6	2.5	1	08/20/20 11:16	08/20/20 13:31	79-01-6	
Trichlorofluoromethane	**<3.7**	ug/kg	8.6	3.7	1	08/20/20 11:16	08/20/20 13:31	75-69-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (20-24) **Lab ID: 30377174020** Collected: 08/11/20 17:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1,2-Trichlorotrifluoroethane	**<3.7**	ug/kg	86.2	3.7	1	08/20/20 11:16	08/20/20 13:31	76-13-1	
1,2,4-Trimethylbenzene	**<4.2**	ug/kg	8.6	4.2	1	08/20/20 11:16	08/20/20 13:31	95-63-6	
1,3,5-Trimethylbenzene	**<3.5**	ug/kg	8.6	3.5	1	08/20/20 11:16	08/20/20 13:31	108-67-8	
Vinyl chloride	**<3.7**	ug/kg	8.6	3.7	1	08/20/20 11:16	08/20/20 13:31	75-01-4	
Xylene (Total)	**<5.5**	ug/kg	25.9	5.5	1	08/20/20 11:16	08/20/20 13:31	1330-20-7	
Surrogates									
Toluene-d8 (S)	92	%.	70-130		1	08/20/20 11:16	08/20/20 13:31	2037-26-5	
4-Bromofluorobenzene (S)	108	%.	70-130		1	08/20/20 11:16	08/20/20 13:31	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130		1	08/20/20 11:16	08/20/20 13:31	17060-07-0	
Dibromofluoromethane (S)	107	%.	70-130		1	08/20/20 11:16	08/20/20 13:31	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20 Pace Analytical Services - Greensburg								
Acetone	**844**	ug/L	100	31.8	10		08/19/20 18:44	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 18:44	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 18:44	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 18:44	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 18:44	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 18:44	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 18:44	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 18:44	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 18:44	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 18:44	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 18:44	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 18:44	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 18:44	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 18:44	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 18:44	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 18:44	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 18:44	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 18:44	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 18:44	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 18:44	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 18:44	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 18:44	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 18:44	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 18:44	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 18:44	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 18:44	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 18:44	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 18:44	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 18:44	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 18:44	591-78-6	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (20-24) **Lab ID: 30377174020** Collected: 08/11/20 17:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 18:44	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 18:44	79-20-9	
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 18:44	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 18:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 18:44	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 18:44	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 18:44	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 18:44	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 18:44	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 18:44	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 18:44	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 18:44	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 18:44	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 18:44	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 18:44	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 18:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 18:44	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 18:44	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 18:44	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 18:44	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 18:44	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	70-130		10		08/19/20 18:44	17060-07-0	
Toluene-d8 (S)	98	%.	70-130		10		08/19/20 18:44	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		08/19/20 18:44	460-00-4	
Dibromofluoromethane (S)	99	%.	70-130		10		08/19/20 18:44	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**23.1**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**81.1**	%			1	08/19/20 12:12	08/19/20 13:40		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (0-2) **Lab ID: 30377174021** Collected: 08/11/20 17:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**2.4**	mg/kg	1.1	0.41	1	08/17/20 10:09	08/19/20 08:21	7440-38-2	
Barium	**78.1**	mg/kg	2.1	0.13	1	08/17/20 10:09	08/19/20 08:21	7440-39-3	
Cadmium	**0.12J**	mg/kg	0.32	0.049	1	08/17/20 10:09	08/19/20 08:21	7440-43-9	
Chromium	**16.9**	mg/kg	1.1	0.81	1	08/17/20 10:09	08/19/20 08:21	7440-47-3	
Lead	**10.4**	mg/kg	1.1	0.48	1	08/17/20 10:09	08/19/20 08:21	7439-92-1	
Selenium	**<0.64**	mg/kg	1.7	0.64	1	08/17/20 10:09	08/19/20 08:21	7782-49-2	
Silver	**<0.090**	mg/kg	0.64	0.090	1	08/17/20 10:09	08/19/20 08:21	7440-22-4	
Zinc	**45.6**	mg/kg	2.1	1.1	1	08/17/20 10:09	08/19/20 08:21	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.020J**	mg/kg	0.12	0.0058	1	08/17/20 12:00	08/17/20 22:37	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00284**	mg/kg	0.00741	0.00284	1	08/18/20 17:17	08/19/20 02:23	120-12-7	
Acenaphthene	**<0.00258**	mg/kg	0.00741	0.00258	1	08/18/20 17:17	08/19/20 02:23	83-32-9	
Acenaphthylene	**<0.00267**	mg/kg	0.00741	0.00267	1	08/18/20 17:17	08/19/20 02:23	208-96-8	
Benzo(a)anthracene	**<0.00214**	mg/kg	0.00741	0.00214	1	08/18/20 17:17	08/19/20 02:23	56-55-3	
Benzo(a)pyrene	**<0.00221**	mg/kg	0.00741	0.00221	1	08/18/20 17:17	08/19/20 02:23	50-32-8	
Benzo(b)fluoranthene	**<0.00189**	mg/kg	0.00741	0.00189	1	08/18/20 17:17	08/19/20 02:23	205-99-2	
Benzo(g,h,i)perylene	**<0.00219**	mg/kg	0.00741	0.00219	1	08/18/20 17:17	08/19/20 02:23	191-24-2	
Benzo(k)fluoranthene	**<0.00266**	mg/kg	0.00741	0.00266	1	08/18/20 17:17	08/19/20 02:23	207-08-9	
Chrysene	**<0.00287**	mg/kg	0.00741	0.00287	1	08/18/20 17:17	08/19/20 02:23	218-01-9	
Dibenz(a,h)anthracene	**<0.00213**	mg/kg	0.00741	0.00213	1	08/18/20 17:17	08/19/20 02:23	53-70-3	
Fluoranthene	**<0.00280**	mg/kg	0.00741	0.00280	1	08/18/20 17:17	08/19/20 02:23	206-44-0	
Fluorene	**<0.00253**	mg/kg	0.00741	0.00253	1	08/18/20 17:17	08/19/20 02:23	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00224**	mg/kg	0.00741	0.00224	1	08/18/20 17:17	08/19/20 02:23	193-39-5	
Naphthalene	**<0.00504**	mg/kg	0.0247	0.00504	1	08/18/20 17:17	08/19/20 02:23	91-20-3	
Phenanthrene	**<0.00285**	mg/kg	0.00741	0.00285	1	08/18/20 17:17	08/19/20 02:23	85-01-8	
Pyrene	**<0.00247**	mg/kg	0.00741	0.00247	1	08/18/20 17:17	08/19/20 02:23	129-00-0	
1-Methylnaphthalene	**<0.00555**	mg/kg	0.0247	0.00555	1	08/18/20 17:17	08/19/20 02:23	90-12-0	
2-Methylnaphthalene	**<0.00528**	mg/kg	0.0247	0.00528	1	08/18/20 17:17	08/19/20 02:23	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	85.4	%	14.0-149		1	08/18/20 17:17	08/19/20 02:23	4165-60-0	
2-Fluorobiphenyl (S)	89.9	%	34.0-125		1	08/18/20 17:17	08/19/20 02:23	321-60-8	
Terphenyl-d14 (S)	90.6	%	23.0-120		1	08/18/20 17:17	08/19/20 02:23	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**18.7**	%	0.10	0.10	1		08/17/20 08:44		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (0-2) **Lab ID: 30377174021** Collected: 08/11/20 17:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**80.9**	%			1	08/19/20 12:12	08/19/20 13:40		

Sample: SB05 (16-20) **Lab ID: 30377174022** Collected: 08/11/20 17:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**18.5**	mg/kg	1.2	0.48	1	08/17/20 10:09	08/19/20 08:23	7440-38-2	
Barium	**39.3**	mg/kg	2.4	0.15	1	08/17/20 10:09	08/19/20 08:23	7440-39-3	
Cadmium	**0.073J**	mg/kg	0.37	0.056	1	08/17/20 10:09	08/19/20 08:23	7440-43-9	
Chromium	**3.9**	mg/kg	1.2	0.93	1	08/17/20 10:09	08/19/20 08:23	7440-47-3	
Lead	**3.4**	mg/kg	1.2	0.55	1	08/17/20 10:09	08/19/20 08:23	7439-92-1	
Selenium	**<0.73**	mg/kg	2.0	0.73	1	08/17/20 10:09	08/19/20 08:23	7782-49-2	
Silver	**<0.10**	mg/kg	0.73	0.10	1	08/17/20 10:09	08/19/20 08:23	7440-22-4	
Zinc	**9.6**	mg/kg	2.4	1.3	1	08/17/20 10:09	08/19/20 08:23	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 9.19 Pace Analytical Services - Greensburg								
Arsenic	**0.0061J**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 09:27	7440-38-2	3c
Barium	**0.049J**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 09:27	7440-39-3	3c,B
Cadmium	**<0.00027**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 09:27	7440-43-9	3c
Chromium	**0.012J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 09:27	7440-47-3	3c
Lead	**0.0055J**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 09:27	7439-92-1	3c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 09:27	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 09:27	7440-22-4	3c
Zinc	**0.019J**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 09:27	7440-66-6	3c,B
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 9.19 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 22:07	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**<0.0056**	mg/kg	0.12	0.0056	1	08/17/20 12:00	08/17/20 22:39	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00286**	mg/kg	0.00747	0.00286	1	08/18/20 17:17	08/19/20 03:29	120-12-7	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (16-20) **Lab ID: 30377174022** Collected: 08/11/20 17:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Acenaphthene	**<0.00260**	mg/kg	0.00747	0.00260	1	08/18/20 17:17	08/19/20 03:29	83-32-9	
Acenaphthylene	**<0.00269**	mg/kg	0.00747	0.00269	1	08/18/20 17:17	08/19/20 03:29	208-96-8	
Benzo(a)anthracene	**<0.00215**	mg/kg	0.00747	0.00215	1	08/18/20 17:17	08/19/20 03:29	56-55-3	
Benzo(a)pyrene	**<0.00223**	mg/kg	0.00747	0.00223	1	08/18/20 17:17	08/19/20 03:29	50-32-8	
Benzo(b)fluoranthene	**<0.00190**	mg/kg	0.00747	0.00190	1	08/18/20 17:17	08/19/20 03:29	205-99-2	
Benzo(g,h,i)perylene	**<0.00220**	mg/kg	0.00747	0.00220	1	08/18/20 17:17	08/19/20 03:29	191-24-2	
Benzo(k)fluoranthene	**<0.00268**	mg/kg	0.00747	0.00268	1	08/18/20 17:17	08/19/20 03:29	207-08-9	
Chrysene	**<0.00289**	mg/kg	0.00747	0.00289	1	08/18/20 17:17	08/19/20 03:29	218-01-9	
Dibenz(a,h)anthracene	**<0.00214**	mg/kg	0.00747	0.00214	1	08/18/20 17:17	08/19/20 03:29	53-70-3	
Fluoranthene	**<0.00283**	mg/kg	0.00747	0.00283	1	08/18/20 17:17	08/19/20 03:29	206-44-0	
Fluorene	**<0.00255**	mg/kg	0.00747	0.00255	1	08/18/20 17:17	08/19/20 03:29	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00225**	mg/kg	0.00747	0.00225	1	08/18/20 17:17	08/19/20 03:29	193-39-5	
Naphthalene	**<0.00508**	mg/kg	0.0249	0.00508	1	08/18/20 17:17	08/19/20 03:29	91-20-3	
Phenanthrene	**<0.00287**	mg/kg	0.00747	0.00287	1	08/18/20 17:17	08/19/20 03:29	85-01-8	
Pyrene	**<0.00249**	mg/kg	0.00747	0.00249	1	08/18/20 17:17	08/19/20 03:29	129-00-0	
1-Methylnaphthalene	**<0.00559**	mg/kg	0.0249	0.00559	1	08/18/20 17:17	08/19/20 03:29	90-12-0	
2-Methylnaphthalene	**<0.00531**	mg/kg	0.0249	0.00531	1	08/18/20 17:17	08/19/20 03:29	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	83.9	%	14.0-149		1	08/18/20 17:17	08/19/20 03:29	4165-60-0	
2-Fluorobiphenyl (S)	88.2	%	34.0-125		1	08/18/20 17:17	08/19/20 03:29	321-60-8	
Terphenyl-d14 (S)	89.8	%	23.0-120		1	08/18/20 17:17	08/19/20 03:29	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.56								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 16:02	120-12-7	
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 16:02	83-32-9	
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 16:02	208-96-8	
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 16:02	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 16:02	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 16:02	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 16:02	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 16:02	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 16:02	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 16:02	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 16:02	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 16:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 16:02	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 16:02	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 16:02	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 16:02	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 16:02	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 16:02	91-57-6	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (16-20) **Lab ID: 30377174022** Collected: 08/11/20 17:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.56								
	Pace National - Mt. Juliet								
Surrogates									
Nitrobenzene-d5 (S)	95.5	%	31.0-160		2	08/21/20 07:13	08/21/20 16:02	4165-60-0	
2-Fluorobiphenyl (S)	86.5	%	48.0-148		2	08/21/20 07:13	08/21/20 16:02	321-60-8	
Terphenyl-d14 (S)	33.6	%	37.0-146		2	08/21/20 07:13	08/21/20 16:02	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**44.6**	ug/kg	15.1	4.8	1	08/20/20 11:16	08/20/20 14:35	67-64-1	B
Benzene	**<1.3**	ug/kg	7.5	1.3	1	08/20/20 11:16	08/20/20 14:35	71-43-2	
Bromodichloromethane	**<1.6**	ug/kg	7.5	1.6	1	08/20/20 11:16	08/20/20 14:35	75-27-4	
Bromoform	**<0.99**	ug/kg	7.5	0.99	1	08/20/20 11:16	08/20/20 14:35	75-25-2	
Bromomethane	**<2.8**	ug/kg	7.5	2.8	1	08/20/20 11:16	08/20/20 14:35	74-83-9	
2-Butanone (MEK)	**<1.4**	ug/kg	15.1	1.4	1	08/20/20 11:16	08/20/20 14:35	78-93-3	
Carbon disulfide	**<2.1**	ug/kg	7.5	2.1	1	08/20/20 11:16	08/20/20 14:35	75-15-0	
Carbon tetrachloride	**<2.6**	ug/kg	7.5	2.6	1	08/20/20 11:16	08/20/20 14:35	56-23-5	
Chlorobenzene	**<1.2**	ug/kg	7.5	1.2	1	08/20/20 11:16	08/20/20 14:35	108-90-7	
Chloroethane	**<3.1**	ug/kg	7.5	3.1	1	08/20/20 11:16	08/20/20 14:35	75-00-3	
Chloroform	**<2.3**	ug/kg	7.5	2.3	1	08/20/20 11:16	08/20/20 14:35	67-66-3	
Chloromethane	**<2.5**	ug/kg	7.5	2.5	1	08/20/20 11:16	08/20/20 14:35	74-87-3	
Cyclohexane	**<2.8**	ug/kg	15.1	2.8	1	08/20/20 11:16	08/20/20 14:35	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/kg	7.5	1.8	1	08/20/20 11:16	08/20/20 14:35	96-12-8	
Dibromochloromethane	**<1.2**	ug/kg	7.5	1.2	1	08/20/20 11:16	08/20/20 14:35	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/kg	7.5	1.2	1	08/20/20 11:16	08/20/20 14:35	106-93-4	
1,2-Dichlorobenzene	**<0.89**	ug/kg	7.5	0.89	1	08/20/20 11:16	08/20/20 14:35	95-50-1	
1,3-Dichlorobenzene	**<0.98**	ug/kg	7.5	0.98	1	08/20/20 11:16	08/20/20 14:35	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/kg	7.5	1.1	1	08/20/20 11:16	08/20/20 14:35	106-46-7	
Dichlorodifluoromethane	**<4.1**	ug/kg	7.5	4.1	1	08/20/20 11:16	08/20/20 14:35	75-71-8	CH,IH
1,1-Dichloroethane	**<1.9**	ug/kg	7.5	1.9	1	08/20/20 11:16	08/20/20 14:35	75-34-3	
1,2-Dichloroethane	**<1.9**	ug/kg	7.5	1.9	1	08/20/20 11:16	08/20/20 14:35	107-06-2	
1,1-Dichloroethene	**<2.8**	ug/kg	7.5	2.8	1	08/20/20 11:16	08/20/20 14:35	75-35-4	
cis-1,2-Dichloroethene	**<1.7**	ug/kg	7.5	1.7	1	08/20/20 11:16	08/20/20 14:35	156-59-2	
trans-1,2-Dichloroethene	**<1.9**	ug/kg	7.5	1.9	1	08/20/20 11:16	08/20/20 14:35	156-60-5	
1,2-Dichloropropane	**<1.1**	ug/kg	7.5	1.1	1	08/20/20 11:16	08/20/20 14:35	78-87-5	
cis-1,3-Dichloropropene	**<0.75**	ug/kg	7.5	0.75	1	08/20/20 11:16	08/20/20 14:35	10061-01-5	
trans-1,3-Dichloropropene	**<1.6**	ug/kg	7.5	1.6	1	08/20/20 11:16	08/20/20 14:35	10061-02-6	
Ethylbenzene	**<1.6**	ug/kg	7.5	1.6	1	08/20/20 11:16	08/20/20 14:35	100-41-4	
2-Hexanone	**<1.5**	ug/kg	15.1	1.5	1	08/20/20 11:16	08/20/20 14:35	591-78-6	
Isopropylbenzene (Cumene)	**<1.7**	ug/kg	7.5	1.7	1	08/20/20 11:16	08/20/20 14:35	98-82-8	
Methyl acetate	**<1.6**	ug/kg	75.4	1.6	1	08/20/20 11:16	08/20/20 14:35	79-20-9	1c
Methylcyclohexane	**<4.7**	ug/kg	15.1	4.7	1	08/20/20 11:16	08/20/20 14:35	108-87-2	
Methylene Chloride	**<6.3**	ug/kg	7.5	6.3	1	08/20/20 11:16	08/20/20 14:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.7**	ug/kg	15.1	1.7	1	08/20/20 11:16	08/20/20 14:35	108-10-1	CL
Methyl-tert-butyl ether	**<1.0**	ug/kg	7.5	1.0	1	08/20/20 11:16	08/20/20 14:35	1634-04-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (16-20) **Lab ID: 30377174022** Collected: 08/11/20 17:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Styrene	**<2.2**	ug/kg	7.5	2.2	1	08/20/20 11:16	08/20/20 14:35	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.89**	ug/kg	7.5	0.89	1	08/20/20 11:16	08/20/20 14:35	79-34-5	
Tetrachloroethene	**<2.6**	ug/kg	7.5	2.6	1	08/20/20 11:16	08/20/20 14:35	127-18-4	
Toluene	**<1.5**	ug/kg	7.5	1.5	1	08/20/20 11:16	08/20/20 14:35	108-88-3	
1,2,3-Trichlorobenzene	**<1.4**	ug/kg	7.5	1.4	1	08/20/20 11:16	08/20/20 14:35	87-61-6	
1,2,4-Trichlorobenzene	**<1.9**	ug/kg	7.5	1.9	1	08/20/20 11:16	08/20/20 14:35	120-82-1	
1,1,1-Trichloroethane	**<2.3**	ug/kg	7.5	2.3	1	08/20/20 11:16	08/20/20 14:35	71-55-6	
1,1,2-Trichloroethane	**<1.5**	ug/kg	7.5	1.5	1	08/20/20 11:16	08/20/20 14:35	79-00-5	
Trichloroethene	**<2.2**	ug/kg	7.5	2.2	1	08/20/20 11:16	08/20/20 14:35	79-01-6	
Trichlorofluoromethane	**<3.3**	ug/kg	7.5	3.3	1	08/20/20 11:16	08/20/20 14:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<3.2**	ug/kg	75.4	3.2	1	08/20/20 11:16	08/20/20 14:35	76-13-1	
1,2,4-Trimethylbenzene	**<3.7**	ug/kg	7.5	3.7	1	08/20/20 11:16	08/20/20 14:35	95-63-6	
1,3,5-Trimethylbenzene	**<3.1**	ug/kg	7.5	3.1	1	08/20/20 11:16	08/20/20 14:35	108-67-8	
Vinyl chloride	**<3.2**	ug/kg	7.5	3.2	1	08/20/20 11:16	08/20/20 14:35	75-01-4	
Xylene (Total)	**<4.8**	ug/kg	22.6	4.8	1	08/20/20 11:16	08/20/20 14:35	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%.	70-130		1	08/20/20 11:16	08/20/20 14:35	2037-26-5	
4-Bromofluorobenzene (S)	110	%.	70-130		1	08/20/20 11:16	08/20/20 14:35	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130		1	08/20/20 11:16	08/20/20 14:35	17060-07-0	
Dibromofluoromethane (S)	107	%.	70-130		1	08/20/20 11:16	08/20/20 14:35	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Acetone	**<31.8**	ug/L	100	31.8	10		08/19/20 20:02	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 20:02	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 20:02	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 20:02	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 20:02	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 20:02	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 20:02	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 20:02	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 20:02	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 20:02	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 20:02	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 20:02	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 20:02	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 20:02	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 20:02	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 20:02	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 20:02	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 20:02	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 20:02	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 20:02	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 20:02	75-34-3	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (16-20) **Lab ID: 30377174022** Collected: 08/11/20 17:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 20:02	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 20:02	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 20:02	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 20:02	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 20:02	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 20:02	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 20:02	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 20:02	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 20:02	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 20:02	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 20:02	79-20-9	
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 20:02	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 20:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 20:02	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 20:02	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 20:02	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 20:02	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 20:02	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 20:02	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 20:02	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 20:02	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 20:02	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 20:02	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 20:02	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 20:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 20:02	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 20:02	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 20:02	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 20:02	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 20:02	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	70-130		10		08/19/20 20:02	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		08/19/20 20:02	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		10		08/19/20 20:02	460-00-4	
Dibromofluoromethane (S)	100	%.	70-130		10		08/19/20 20:02	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**19.9**	%	0.10	0.10	1		08/17/20 08:44		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**80.4**	%			1	08/19/20 12:12	08/19/20 13:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: Trip Blank **Lab ID: 30377174023** Collected: 08/11/20 00:01 Received: 08/12/20 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Acetone	**<5.6**	ug/L	10.0	5.6	1		08/21/20 13:34	67-64-1	4c,CH, M5
Benzene	**<0.34**	ug/L	1.0	0.34	1		08/21/20 13:34	71-43-2	M5
Bromodichloromethane	**<0.35**	ug/L	1.0	0.35	1		08/21/20 13:34	75-27-4	M5
Bromoform	**<0.56**	ug/L	1.0	0.56	1		08/21/20 13:34	75-25-2	L2,M5
Bromomethane	**<0.73**	ug/L	1.0	0.73	1		08/21/20 13:34	74-83-9	M5
2-Butanone (MEK)	**<1.5**	ug/L	10.0	1.5	1		08/21/20 13:34	78-93-3	CH,L1, M5
Carbon disulfide	**<0.32**	ug/L	1.0	0.32	1		08/21/20 13:34	75-15-0	M5
Carbon tetrachloride	**<0.44**	ug/L	1.0	0.44	1		08/21/20 13:34	56-23-5	M5
Chlorobenzene	**<0.26**	ug/L	1.0	0.26	1		08/21/20 13:34	108-90-7	M5
Chloroethane	**<0.64**	ug/L	1.0	0.64	1		08/21/20 13:34	75-00-3	M5
Chloroform	**<0.39**	ug/L	1.0	0.39	1		08/21/20 13:34	67-66-3	M5
Chloromethane	**<0.40**	ug/L	1.0	0.40	1		08/21/20 13:34	74-87-3	CH,L1, M5
Cyclohexane	**<0.33**	ug/L	10.0	0.33	1		08/21/20 13:34	110-82-7	L1,M5
1,2-Dibromo-3-chloropropane	**<0.55**	ug/L	5.0	0.55	1		08/21/20 13:34	96-12-8	M5
Dibromochloromethane	**<0.43**	ug/L	1.0	0.43	1		08/21/20 13:34	124-48-1	M5
1,2-Dibromoethane (EDB)	**<0.44**	ug/L	1.0	0.44	1		08/21/20 13:34	106-93-4	M5
1,2-Dichlorobenzene	**<0.38**	ug/L	1.0	0.38	1		08/21/20 13:34	95-50-1	M5
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		08/21/20 13:34	541-73-1	M5
1,4-Dichlorobenzene	**<0.48**	ug/L	1.0	0.48	1		08/21/20 13:34	106-46-7	M5
Dichlorodifluoromethane	**<0.63**	ug/L	1.0	0.63	1		08/21/20 13:34	75-71-8	IH,M5
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		08/21/20 13:34	75-34-3	M5
1,2-Dichloroethane	**<0.33**	ug/L	1.0	0.33	1		08/21/20 13:34	107-06-2	M5
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		08/21/20 13:34	75-35-4	CH,M5
cis-1,2-Dichloroethene	**<0.38**	ug/L	1.0	0.38	1		08/21/20 13:34	156-59-2	M5
trans-1,2-Dichloroethene	**<0.28**	ug/L	1.0	0.28	1		08/21/20 13:34	156-60-5	CH,M5
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		08/21/20 13:34	78-87-5	M5
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		08/21/20 13:34	10061-01-5	M5
trans-1,3-Dichloropropene	**<0.32**	ug/L	1.0	0.32	1		08/21/20 13:34	10061-02-6	M5
Ethylbenzene	**<0.40**	ug/L	1.0	0.40	1		08/21/20 13:34	100-41-4	M5
2-Hexanone	**<0.58**	ug/L	10.0	0.58	1		08/21/20 13:34	591-78-6	M5
Isopropylbenzene (Cumene)	**<0.47**	ug/L	1.0	0.47	1		08/21/20 13:34	98-82-8	M5
Methyl acetate	**<0.55**	ug/L	5.0	0.55	1		08/21/20 13:34	79-20-9	M5
Methylcyclohexane	**<2.4**	ug/L	10.0	2.4	1		08/21/20 13:34	108-87-2	M5
Methylene Chloride	**<0.64**	ug/L	1.0	0.64	1		08/21/20 13:34	75-09-2	CH,M5
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/L	10.0	0.42	1		08/21/20 13:34	108-10-1	CH,M5
Methyl-tert-butyl ether	**<0.25**	ug/L	1.0	0.25	1		08/21/20 13:34	1634-04-4	M5
Styrene	**<0.33**	ug/L	1.0	0.33	1		08/21/20 13:34	100-42-5	M5
1,1,2,2-Tetrachloroethane	**<0.47**	ug/L	1.0	0.47	1		08/21/20 13:34	79-34-5	M5
Tetrachloroethene	**<0.39**	ug/L	1.0	0.39	1		08/21/20 13:34	127-18-4	M5
Toluene	**<0.32**	ug/L	1.0	0.32	1		08/21/20 13:34	108-88-3	M5
1,2,3-Trichlorobenzene	**<0.89**	ug/L	2.0	0.89	1		08/21/20 13:34	87-61-6	M5
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	0.73	1		08/21/20 13:34	120-82-1	M5
1,1,1-Trichloroethane	**<0.38**	ug/L	1.0	0.38	1		08/21/20 13:34	71-55-6	M5

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: Trip Blank **Lab ID: 30377174023** Collected: 08/11/20 00:01 Received: 08/12/20 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
	Pace Analytical Services - Greensburg								
1,1,2-Trichloroethane	**<0.33**	ug/L	1.0	0.33	1		08/21/20 13:34	79-00-5	M5
Trichloroethene	**<0.29**	ug/L	1.0	0.29	1		08/21/20 13:34	79-01-6	M5
Trichlorofluoromethane	**<0.51**	ug/L	1.0	0.51	1		08/21/20 13:34	75-69-4	M5
1,1,2-Trichlorotrifluoroethane	**<3.0**	ug/L	50.0	3.0	1		08/21/20 13:34	76-13-1	M5
1,2,4-Trimethylbenzene	**<0.63**	ug/L	1.0	0.63	1		08/21/20 13:34	95-63-6	M5
1,3,5-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		08/21/20 13:34	108-67-8	M5
Vinyl chloride	**<0.29**	ug/L	1.0	0.29	1		08/21/20 13:34	75-01-4	M5
Xylene (Total)	**<1.4**	ug/L	3.0	1.4	1		08/21/20 13:34	1330-20-7	M5
Surrogates									
4-Bromofluorobenzene (S)	92	%.	70-130		1		08/21/20 13:34	460-00-4	M5
1,2-Dichloroethane-d4 (S)	113	%.	70-130		1		08/21/20 13:34	17060-07-0	M5
Toluene-d8 (S)	94	%.	70-130		1		08/21/20 13:34	2037-26-5	M5
Dibromofluoromethane (S)	98	%.	70-130		1		08/21/20 13:34	1868-53-7	M5

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 410112 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008, 30377174010

METHOD BLANK: 1984667 Matrix: Water
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008, 30377174010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.030J	1.0	0.030	08/19/20 22:28	

METHOD BLANK: 1983283 Matrix: Water
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008, 30377174010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	0.030J	1.0	0.030	08/19/20 22:32	

LABORATORY CONTROL SAMPLE: 1984668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.94J	94	80-120	

MATRIX SPIKE SAMPLE: 1984670

Parameter	Units	30377174007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.030J	2.5	2.4	95	75-125	

SAMPLE DUPLICATE: 1984669

Parameter	Units	30377174007 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	0.030J	0.030J		20	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 410342 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174012, 30377174014, 30377174016, 30377174018, 30377174020, 30377174022

METHOD BLANK: 1985662 | Matrix: Water
Associated Lab Samples: 30377174012, 30377174014, 30377174016, 30377174018, 30377174020, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.030	1.0	0.030	08/20/20 21:47	

METHOD BLANK: 1984349 | Matrix: Water
Associated Lab Samples: 30377174012, 30377174014, 30377174016, 30377174018, 30377174020, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	<0.030	1.0	0.030	08/20/20 21:53	

LABORATORY CONTROL SAMPLE: 1985663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	1.0	101	80-120	

MATRIX SPIKE SAMPLE: 1985665

Parameter	Units	30377174020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	<0.030	2.5	2.5	98	75-125	

SAMPLE DUPLICATE: 1985664

Parameter	Units	30377174020 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	ug/L	<0.030	<0.030		20	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 409685
QC Batch Method: EPA 7471A
Analysis Method: EPA 7471A
Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174001, 30377174002, 30377174003, 30377174004, 30377174005, 30377174006, 30377174007, 30377174008, 30377174009, 30377174010, 30377174011, 30377174012, 30377174013, 30377174014, 30377174015, 30377174016, 30377174017, 30377174018, 30377174019

METHOD BLANK: 1982740
Matrix: Solid
Associated Lab Samples: 30377174001, 30377174002, 30377174003, 30377174004, 30377174005, 30377174006, 30377174007, 30377174008, 30377174009, 30377174010, 30377174011, 30377174012, 30377174013, 30377174014, 30377174015, 30377174016, 30377174017, 30377174018, 30377174019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0047	0.096	0.0047	08/17/20 21:41	

LABORATORY CONTROL SAMPLE: 1982741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.21	0.22	106	80-120	

MATRIX SPIKE SAMPLE: 1982743

Parameter	Units	30377174013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.059J	0.62	0.68	100	80-120	

SAMPLE DUPLICATE: 1982742

Parameter	Units	30377174013 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	0.059J	0.052J		20	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 409686
QC Batch Method: EPA 7471A
Analysis Method: EPA 7471A
Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174020, 30377174021, 30377174022

METHOD BLANK: 1982744
Matrix: Solid
Associated Lab Samples: 30377174020, 30377174021, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/kg	<0.0047	0.096	0.0047	08/17/20 22:29	

LABORATORY CONTROL SAMPLE: 1982745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.2	0.22	112	80-120	

MATRIX SPIKE SAMPLE: 1982747

Parameter	Units	30377174020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.023J	0.62	0.67	103	80-120	

SAMPLE DUPLICATE: 1982746

Parameter	Units	30377174020 Result	Dup Result	RPD	Max RPD	Qualifiers
Mercury	mg/kg	0.023J	0.018J		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 409662
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30377174001, 30377174002, 30377174003, 30377174004, 30377174005, 30377174006, 30377174007, 30377174008, 30377174009, 30377174010, 30377174011, 30377174012, 30377174013, 30377174014, 30377174015, 30377174016, 30377174017, 30377174018, 30377174019

METHOD BLANK: 1982658
Matrix: Solid

Associated Lab Samples: 30377174001, 30377174002, 30377174003, 30377174004, 30377174005, 30377174006, 30377174007, 30377174008, 30377174009, 30377174010, 30377174011, 30377174012, 30377174013, 30377174014, 30377174015, 30377174016, 30377174017, 30377174018, 30377174019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	<0.38	0.98	0.38	08/19/20 08:36	
Barium	mg/kg	<0.12	2.0	0.12	08/19/20 08:36	
Cadmium	mg/kg	<0.045	0.29	0.045	08/19/20 08:36	
Chromium	mg/kg	<0.74	0.98	0.74	08/19/20 08:36	
Lead	mg/kg	<0.44	0.98	0.44	08/19/20 08:36	
Selenium	mg/kg	<0.59	1.6	0.59	08/19/20 08:36	
Silver	mg/kg	<0.083	0.59	0.083	08/19/20 08:36	
Zinc	mg/kg	<1.1	2.0	1.1	08/19/20 08:36	

LABORATORY CONTROL SAMPLE: 1982659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	48.5	97	80-120	
Barium	mg/kg	50	49.5	99	80-120	
Cadmium	mg/kg	50	49.3	99	80-120	
Chromium	mg/kg	50	49.8	100	80-120	
Lead	mg/kg	50	46.2	92	80-120	
Selenium	mg/kg	50	46.7	93	80-120	
Silver	mg/kg	25	23.9	96	80-120	
Zinc	mg/kg	50	49.9	100	80-120	

MATRIX SPIKE SAMPLE: 1982661

Parameter	Units	30377174013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	6.7	56.1	57.0	90	75-125	
Barium	mg/kg	113	56.1	154	74	75-125	ML
Cadmium	mg/kg	0.16J	56.1	50.8	90	75-125	
Chromium	mg/kg	16.6	56.1	73.4	101	75-125	
Lead	mg/kg	29.4	56.1	73.6	79	75-125	
Selenium	mg/kg	<0.67	56.1	45.7	81	75-125	
Silver	mg/kg	<0.095	28	26.2	94	75-125	
Zinc	mg/kg	53.9	56.1	112	104	75-125	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

SAMPLE DUPLICATE: 1982660

Parameter	Units	30377174013 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	6.7	7.8	15	20	
Barium	mg/kg	113	315	94	20	D6
Cadmium	mg/kg	0.16J	0.21J		20	
Chromium	mg/kg	16.6	17.1	3	20	
Lead	mg/kg	29.4	17.2	52	20	D6
Selenium	mg/kg	<0.67	<0.67		20	
Silver	mg/kg	<0.095	<0.095		20	
Zinc	mg/kg	53.9	91.7	52	20	D6

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 409663
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174020, 30377174021, 30377174022

METHOD BLANK: 1982662
Matrix: Solid
Associated Lab Samples: 30377174020, 30377174021, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	<0.39	1.0	0.39	08/19/20 08:07	
Barium	mg/kg	<0.12	2.0	0.12	08/19/20 08:07	
Cadmium	mg/kg	<0.046	0.30	0.046	08/19/20 08:07	
Chromium	mg/kg	<0.76	1.0	0.76	08/19/20 08:07	
Lead	mg/kg	<0.45	1.0	0.45	08/19/20 08:07	
Selenium	mg/kg	<0.60	1.6	0.60	08/19/20 08:07	
Silver	mg/kg	<0.085	0.60	0.085	08/19/20 08:07	
Zinc	mg/kg	<1.1	2.0	1.1	08/19/20 08:07	

LABORATORY CONTROL SAMPLE: 1982663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	47.6	95	80-120	
Barium	mg/kg	50	50.4	101	80-120	
Cadmium	mg/kg	50	48.3	97	80-120	
Chromium	mg/kg	50	50.4	101	80-120	
Lead	mg/kg	50	45.8	92	80-120	
Selenium	mg/kg	50	45.8	92	80-120	
Silver	mg/kg	25	23.9	96	80-120	
Zinc	mg/kg	50	49.0	98	80-120	

MATRIX SPIKE SAMPLE: 1982665

Parameter	Units	30377174020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	5.3	58	54.0	84	75-125	
Barium	mg/kg	101	58	194	160	75-125	MH
Cadmium	mg/kg	0.13J	58	49.9	86	75-125	
Chromium	mg/kg	17.0	58	75.7	101	75-125	
Lead	mg/kg	9.6	58	64.8	95	75-125	
Selenium	mg/kg	<0.70	58	46.0	79	75-125	
Silver	mg/kg	<0.099	29	26.1	90	75-125	
Zinc	mg/kg	40.5	58	103	108	75-125	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

SAMPLE DUPLICATE: 1982664

Parameter	Units	30377174020 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	5.3	5.6	6	20	
Barium	mg/kg	101	101	1	20	
Cadmium	mg/kg	0.13J	0.057J		20	
Chromium	mg/kg	17.0	16.4	4	20	
Lead	mg/kg	9.6	9.4	2	20	
Selenium	mg/kg	<0.70	<0.70		20	
Silver	mg/kg	<0.099	<0.099		20	
Zinc	mg/kg	40.5	39.8	2	20	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 410083
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008, 30377174010

METHOD BLANK: 1984510 Matrix: Water
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008, 30377174010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	<0.0033	0.025	0.0033	08/21/20 08:05	2c
Barium	mg/L	<0.00055	0.050	0.00055	08/21/20 08:05	2c
Cadmium	mg/L	<0.00027	0.015	0.00027	08/21/20 08:05	2c
Chromium	mg/L	<0.00067	0.025	0.00067	08/21/20 08:05	2c
Lead	mg/L	<0.0031	0.025	0.0031	08/21/20 08:05	2c
Selenium	mg/L	<0.0036	0.040	0.0036	08/21/20 08:05	2c
Silver	mg/L	<0.00098	0.030	0.00098	08/21/20 08:05	2c
Zinc	mg/L	<0.0034	0.025	0.0034	08/21/20 08:05	2c

METHOD BLANK: 1983283 Matrix: Water
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008, 30377174010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	<0.0033	0.025	0.0033	08/21/20 08:11	2c
Barium	mg/L	0.0094J	0.050	0.00055	08/21/20 08:11	2c
Cadmium	mg/L	<0.00027	0.015	0.00027	08/21/20 08:11	2c
Chromium	mg/L	0.00094J	0.025	0.00067	08/21/20 08:11	2c
Lead	mg/L	<0.0031	0.025	0.0031	08/21/20 08:11	2c
Selenium	mg/L	<0.0036	0.040	0.0036	08/21/20 08:11	2c
Silver	mg/L	<0.00098	0.030	0.00098	08/21/20 08:11	2c
Zinc	mg/L	0.0040J	0.025	0.0034	08/21/20 08:11	2c

LABORATORY CONTROL SAMPLE: 1984511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.50	99	80-120	2c
Barium	mg/L	0.5	0.52	105	80-120	2c
Cadmium	mg/L	0.5	0.50	99	80-120	2c
Chromium	mg/L	0.5	0.50	101	80-120	2c
Lead	mg/L	0.5	0.48	96	80-120	2c
Selenium	mg/L	0.5	0.51	102	80-120	2c
Silver	mg/L	0.25	0.25	101	80-120	2c
Zinc	mg/L	0.5	0.50	100	80-120	2c

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1984513 1984514

Parameter	Units	30377174007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0039J	0.5	0.5	0.50	0.54	99	107	75-125	8	20	2c
Barium	mg/L	0.054	0.5	0.5	0.52	0.54	92	97	75-125	4	20	2c
Cadmium	mg/L	0.00043J	0.5	0.5	0.49	0.54	98	108	75-125	9	20	2c
Chromium	mg/L	0.0082J	0.5	0.5	0.51	0.52	100	102	75-125	2	20	2c
Lead	mg/L	<0.0031	0.5	0.5	0.48	0.50	96	99	75-125	3	20	2c
Selenium	mg/L	<0.0036	0.5	0.5	0.52	0.55	104	109	75-125	5	20	2c
Silver	mg/L	<0.00098	0.25	0.25	0.25	0.26	101	103	75-125	2	20	2c
Zinc	mg/L	0.015J	0.5	0.5	0.50	0.53	98	103	75-125	5	20	2c

SAMPLE DUPLICATE: 1984512

Parameter	Units	30377174007 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	0.0039J	0.0064J		20	2c
Barium	mg/L	0.054	0.054	0	20	2c
Cadmium	mg/L	0.00043J	0.00031J		20	2c
Chromium	mg/L	0.0082J	0.0077J		20	2c
Lead	mg/L	<0.0031	0.0031J		20	2c
Selenium	mg/L	<0.0036	<0.0036		20	2c
Silver	mg/L	<0.00098	<0.00098		20	2c
Zinc	mg/L	0.015J	0.015J		20	2c

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 410319
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174012, 30377174014, 30377174016, 30377174018, 30377174020, 30377174022

METHOD BLANK: 1985574 Matrix: Water
Associated Lab Samples: 30377174012, 30377174014, 30377174016, 30377174018, 30377174020, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	<0.0033	0.025	0.0033	08/21/20 08:49	3c
Barium	mg/L	<0.00055	0.050	0.00055	08/21/20 08:49	3c
Cadmium	mg/L	<0.00027	0.015	0.00027	08/21/20 08:49	3c
Chromium	mg/L	<0.00067	0.025	0.00067	08/21/20 08:49	3c
Lead	mg/L	<0.0031	0.025	0.0031	08/21/20 08:49	3c
Selenium	mg/L	<0.0036	0.040	0.0036	08/21/20 08:49	3c
Silver	mg/L	<0.00098	0.030	0.00098	08/21/20 08:49	3c
Zinc	mg/L	<0.0034	0.025	0.0034	08/21/20 08:49	3c

METHOD BLANK: 1984349 Matrix: Water
Associated Lab Samples: 30377174012, 30377174014, 30377174016, 30377174018, 30377174020, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	<0.0033	0.025	0.0033	08/21/20 08:55	3c
Barium	mg/L	0.0092J	0.050	0.00055	08/21/20 08:55	3c
Cadmium	mg/L	<0.00027	0.015	0.00027	08/21/20 08:55	3c
Chromium	mg/L	<0.00067	0.025	0.00067	08/21/20 08:55	3c
Lead	mg/L	<0.0031	0.025	0.0031	08/21/20 08:55	3c
Selenium	mg/L	<0.0036	0.040	0.0036	08/21/20 08:55	3c
Silver	mg/L	<0.00098	0.030	0.00098	08/21/20 08:55	3c
Zinc	mg/L	0.0048J	0.025	0.0034	08/21/20 08:55	3c

LABORATORY CONTROL SAMPLE: 1985575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.51	102	80-120	3c
Barium	mg/L	0.5	0.52	104	80-120	3c
Cadmium	mg/L	0.5	0.51	101	80-120	3c
Chromium	mg/L	0.5	0.50	100	80-120	3c
Lead	mg/L	0.5	0.46	91	80-120	3c
Selenium	mg/L	0.5	0.51	102	80-120	3c
Silver	mg/L	0.25	0.25	102	80-120	3c
Zinc	mg/L	0.5	0.49	99	80-120	3c

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985577 1985578

Parameter	Units	30377174020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0043J	0.5	0.5	0.52	0.47	102	93	75-125	9	20	3c
Barium	mg/L	0.10	0.5	0.5	0.56	0.57	91	92	75-125	1	20	3c
Cadmium	mg/L	0.00049J	0.5	0.5	0.51	0.47	102	94	75-125	8	20	3c
Chromium	mg/L	0.015J	0.5	0.5	0.52	0.50	100	98	75-125	2	20	3c
Lead	mg/L	0.0086J	0.5	0.5	0.48	0.48	94	94	75-125	1	20	3c
Selenium	mg/L	<0.0036	0.5	0.5	0.52	0.50	104	100	75-125	3	20	3c
Silver	mg/L	<0.00098	0.25	0.25	0.26	0.26	104	102	75-125	2	20	3c
Zinc	mg/L	0.031	0.5	0.5	0.51	0.50	96	94	75-125	2	20	3c

SAMPLE DUPLICATE: 1985576

Parameter	Units	30377174020 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	0.0043J	0.0033J		20	3c
Barium	mg/L	0.10	0.10	2	20	3c
Cadmium	mg/L	0.00049J	0.00068J		20	3c
Chromium	mg/L	0.015J	0.013J		20	3c
Lead	mg/L	0.0086J	0.0083J		20	3c
Selenium	mg/L	<0.0036	<0.0036		20	3c
Silver	mg/L	<0.00098	<0.00098		20	3c
Zinc	mg/L	0.031	0.029	6	20	3c

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 1527414
QC Batch Method: 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: SVOA (GC/MS) 8270E-SIM
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 30377174001, 30377174002, 30377174003, 30377174004, 30377174005, 30377174006, 30377174007, 30377174008, 30377174009, 30377174010

METHOD BLANK: R3560860-2
Matrix: Solid
Associated Lab Samples: 30377174001, 30377174002, 30377174003, 30377174004, 30377174005, 30377174006, 30377174007, 30377174008, 30377174009, 30377174010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Anthracene	mg/kg	<0.00230	0.00600	0.00230	08/18/20 00:51	
Acenaphthene	mg/kg	<0.00209	0.00600	0.00209	08/18/20 00:51	
Acenaphthylene	mg/kg	<0.00216	0.00600	0.00216	08/18/20 00:51	
Benzo(a)anthracene	mg/kg	<0.00173	0.00600	0.00173	08/18/20 00:51	
Benzo(a)pyrene	mg/kg	<0.00179	0.00600	0.00179	08/18/20 00:51	
Benzo(b)fluoranthene	mg/kg	<0.00153	0.00600	0.00153	08/18/20 00:51	
Benzo(g,h,i)perylene	mg/kg	<0.00177	0.00600	0.00177	08/18/20 00:51	
Benzo(k)fluoranthene	mg/kg	<0.00215	0.00600	0.00215	08/18/20 00:51	
Chrysene	mg/kg	<0.00232	0.00600	0.00232	08/18/20 00:51	
Dibenz(a,h)anthracene	mg/kg	<0.00172	0.00600	0.00172	08/18/20 00:51	
Fluoranthene	mg/kg	<0.00227	0.00600	0.00227	08/18/20 00:51	
Fluorene	mg/kg	<0.00205	0.00600	0.00205	08/18/20 00:51	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.00181	0.00600	0.00181	08/18/20 00:51	
Naphthalene	mg/kg	<0.00408	0.0200	0.00408	08/18/20 00:51	
Phenanthrene	mg/kg	<0.00231	0.00600	0.00231	08/18/20 00:51	
Pyrene	mg/kg	<0.00200	0.00600	0.00200	08/18/20 00:51	
1-Methylnaphthalene	mg/kg	<0.00449	0.0200	0.00449	08/18/20 00:51	
2-Methylnaphthalene	mg/kg	<0.00427	0.0200	0.00427	08/18/20 00:51	
Nitrobenzene-d5 (S)	%	108	14.0-149		08/18/20 00:51	
2-Fluorobiphenyl (S)	%	98	34.0-125		08/18/20 00:51	
Terphenyl-d14 (S)	%	98.7	23.0-120		08/18/20 00:51	

LABORATORY CONTROL SAMPLE: R3560860-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	mg/kg	0.0800	0.0820	103	50.0-126	
Acenaphthene	mg/kg	0.0800	0.0804	101	50.0-120	
Acenaphthylene	mg/kg	0.0800	0.0826	103	50.0-120	
Benzo(a)anthracene	mg/kg	0.0800	0.0787	98.4	45.0-120	
Benzo(a)pyrene	mg/kg	0.0800	0.0714	89.3	42.0-120	
Benzo(b)fluoranthene	mg/kg	0.0800	0.0706	88.3	42.0-121	
Benzo(g,h,i)perylene	mg/kg	0.0800	0.0806	101	45.0-125	
Benzo(k)fluoranthene	mg/kg	0.0800	0.0789	98.6	49.0-125	
Chrysene	mg/kg	0.0800	0.0771	96.4	49.0-122	
Dibenz(a,h)anthracene	mg/kg	0.0800	0.0840	105	47.0-125	
Fluoranthene	mg/kg	0.0800	0.0795	99.4	49.0-129	
Fluorene	mg/kg	0.0800	0.0819	102	49.0-120	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

LABORATORY CONTROL SAMPLE: R3560860-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	mg/kg	0.0800	0.0823	103	46.0-125	
Naphthalene	mg/kg	0.0800	0.0743	92.9	50.0-120	
Phenanthrene	mg/kg	0.0800	0.0845	106	47.0-120	
Pyrene	mg/kg	0.0800	0.0784	98.0	43.0-123	
1-Methylnaphthalene	mg/kg	0.0800	0.0753	94.1	51.0-121	
2-Methylnaphthalene	mg/kg	0.0800	0.0726	90.8	50.0-120	
Nitrobenzene-d5 (S)	%			114	14.0-149	
2-Fluorobiphenyl (S)	%			102	34.0-125	
Terphenyl-d14 (S)	%			99.3	23.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3560860-3 R3560860-4

Parameter	Units	L1250422-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Anthracene	mg/kg	0.0492	0.111	0.111	0.224	0.227	157	160	10.0-145	1.23	30	MH
Acenaphthene	mg/kg	0.0391	0.111	0.111	0.188	0.191	134	136	14.0-127	1.47	27	MH
Acenaphthylene	mg/kg	ND	0.111	0.111	0.0964	0.103	86.5	92.8	21.0-124	6.97	25	
Benzo(a)anthracene	mg/kg	0.0540	0.111	0.111	0.195	0.214	127	144	10.0-139	9.52	30	MH
Benzo(a)pyrene	mg/kg	0.0407	0.111	0.111	0.152	0.170	99.8	116	10.0-141	11.3	31	
Benzo(b)fluoranthene	mg/kg	0.0505	0.111	0.111	0.162	0.177	99.6	113	10.0-140	9.05	36	
Benzo(g,h,i)perylene	mg/kg	0.0280	0.111	0.111	0.141	0.156	101	115	10.0-140	10.3	33	
Benzo(k)fluoranthene	mg/kg	0.0195	0.111	0.111	0.120	0.137	90.6	106	10.0-137	13.2	31	
Chrysene	mg/kg	0.0519	0.111	0.111	0.187	0.205	121	137	10.0-145	9.25	30	
Dibenz(a,h)anthracene	mg/kg	0.00767	0.111	0.111	0.110	0.120	91.7	101	10.0-132	8.96	31	
Fluoranthene	mg/kg	0.135	0.111	0.111	0.376	0.389	217	228	10.0-153	3.28	33	MH
Fluorene	mg/kg	0.0961	0.111	0.111	0.355	0.341	233	220	11.0-130	4.00	29	MH
Indeno(1,2,3-cd)pyrene	mg/kg	0.0216	0.111	0.111	0.127	0.141	95.0	107	10.0-137	9.87	32	
Naphthalene	mg/kg	0.143	0.111	0.111	0.446	0.437	271	264	10.0-135	1.89	27	MH
Phenanthrene	mg/kg	0.258	0.111	0.111	0.756	0.734	448	428	10.0-144	2.99	31	MH
Pyrene	mg/kg	0.121	0.111	0.111	0.362	0.370	217	224	10.0-148	2.28	35	MH
1-Methylnaphthalene	mg/kg	0.216	0.111	0.111	0.648	0.606	388	350	10.0-142	6.67	28	MH
2-Methylnaphthalene	mg/kg	0.221	0.111	0.111	0.636	0.614	373	353	10.0-137	3.56	28	MH
Nitrobenzene-d5 (S)	%						177	207	14.0-149			ST
2-Fluorobiphenyl (S)	%						87.6	92.7	34.0-125			
Terphenyl-d14 (S)	%						86.7	92.6	23.0-120			

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 1527415
QC Batch Method: 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: SVOA (GC/MS) 8270E-SIM
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 30377174011, 30377174012, 30377174013

METHOD BLANK: R3560859-2 Matrix: Solid
Associated Lab Samples: 30377174011, 30377174012, 30377174013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Anthracene	mg/kg	<0.00230	0.00600	0.00230	08/18/20 00:16	
Acenaphthene	mg/kg	<0.00209	0.00600	0.00209	08/18/20 00:16	
Acenaphthylene	mg/kg	<0.00216	0.00600	0.00216	08/18/20 00:16	
Benzo(a)anthracene	mg/kg	<0.00173	0.00600	0.00173	08/18/20 00:16	
Benzo(a)pyrene	mg/kg	<0.00179	0.00600	0.00179	08/18/20 00:16	
Benzo(b)fluoranthene	mg/kg	<0.00153	0.00600	0.00153	08/18/20 00:16	
Benzo(g,h,i)perylene	mg/kg	<0.00177	0.00600	0.00177	08/18/20 00:16	
Benzo(k)fluoranthene	mg/kg	<0.00215	0.00600	0.00215	08/18/20 00:16	
Chrysene	mg/kg	<0.00232	0.00600	0.00232	08/18/20 00:16	
Dibenz(a,h)anthracene	mg/kg	<0.00172	0.00600	0.00172	08/18/20 00:16	
Fluoranthene	mg/kg	<0.00227	0.00600	0.00227	08/18/20 00:16	
Fluorene	mg/kg	<0.00205	0.00600	0.00205	08/18/20 00:16	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.00181	0.00600	0.00181	08/18/20 00:16	
Naphthalene	mg/kg	<0.00408	0.0200	0.00408	08/18/20 00:16	
Phenanthrene	mg/kg	<0.00231	0.00600	0.00231	08/18/20 00:16	
Pyrene	mg/kg	<0.00200	0.00600	0.00200	08/18/20 00:16	
1-Methylnaphthalene	mg/kg	<0.00449	0.0200	0.00449	08/18/20 00:16	
2-Methylnaphthalene	mg/kg	<0.00427	0.0200	0.00427	08/18/20 00:16	
Nitrobenzene-d5 (S)	%	95.7	14.0-149		08/18/20 00:16	
2-Fluorobiphenyl (S)	%	96.6	34.0-125		08/18/20 00:16	
Terphenyl-d14 (S)	%	106	23.0-120		08/18/20 00:16	

LABORATORY CONTROL SAMPLE: R3560859-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	mg/kg	0.0800	0.0721	90.1	50.0-126	
Acenaphthene	mg/kg	0.0800	0.0753	94.1	50.0-120	
Acenaphthylene	mg/kg	0.0800	0.0779	97.4	50.0-120	
Benzo(a)anthracene	mg/kg	0.0800	0.0811	101	45.0-120	
Benzo(a)pyrene	mg/kg	0.0800	0.0723	90.4	42.0-120	
Benzo(b)fluoranthene	mg/kg	0.0800	0.0736	92.0	42.0-121	
Benzo(g,h,i)perylene	mg/kg	0.0800	0.0774	96.8	45.0-125	
Benzo(k)fluoranthene	mg/kg	0.0800	0.0734	91.8	49.0-125	
Chrysene	mg/kg	0.0800	0.0776	97.0	49.0-122	
Dibenz(a,h)anthracene	mg/kg	0.0800	0.0753	94.1	47.0-125	
Fluoranthene	mg/kg	0.0800	0.0751	93.9	49.0-129	
Fluorene	mg/kg	0.0800	0.0778	97.3	49.0-120	
Indeno(1,2,3-cd)pyrene	mg/kg	0.0800	0.0758	94.8	46.0-125	
Naphthalene	mg/kg	0.0800	0.0739	92.4	50.0-120	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

LABORATORY CONTROL SAMPLE: R3560859-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	mg/kg	0.0800	0.0757	94.6	47.0-120	
Pyrene	mg/kg	0.0800	0.0776	97.0	43.0-123	
1-Methylnaphthalene	mg/kg	0.0800	0.0775	96.9	51.0-121	
2-Methylnaphthalene	mg/kg	0.0800	0.0737	92.1	50.0-120	
Nitrobenzene-d5 (S)	%			95.8	14.0-149	
2-Fluorobiphenyl (S)	%			93.6	34.0-125	
Terphenyl-d14 (S)	%			100	23.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3560859-3 R3560859-4

Parameter	Units	30377174012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Anthracene	mg/kg	ND	0.104	0.104	0.0911	0.0908	87.3	87.0	10.0-145	0.287	30	
Acenaphthene	mg/kg	ND	0.104	0.104	0.0946	0.0958	90.6	91.8	14.0-127	1.23	27	
Acenaphthylene	mg/kg	ND	0.104	0.104	0.0955	0.0970	91.5	92.9	21.0-124	1.49	25	
Benzo(a)anthracene	mg/kg	ND	0.104	0.104	0.0988	0.0991	94.6	94.9	10.0-139	0.264	30	
Benzo(a)pyrene	mg/kg	ND	0.104	0.104	0.0911	0.0915	87.3	87.6	10.0-141	0.429	31	
Benzo(b)fluoranthene	mg/kg	ND	0.104	0.104	0.0955	0.0944	91.5	90.4	10.0-140	1.24	36	
Benzo(g,h,i)perylene	mg/kg	ND	0.104	0.104	0.101	0.102	96.8	98.0	10.0-140	1.28	33	
Benzo(k)fluoranthene	mg/kg	ND	0.104	0.104	0.0918	0.0922	87.9	88.3	10.0-137	0.426	31	
Chrysene	mg/kg	ND	0.104	0.104	0.0963	0.0962	92.3	92.1	10.0-145	0.136	30	
Dibenz(a,h)anthracene	mg/kg	ND	0.104	0.104	0.0972	0.0967	93.1	92.6	10.0-132	0.538	31	
Fluoranthene	mg/kg	ND	0.104	0.104	0.0952	0.0949	91.1	90.9	10.0-153	0.275	33	
Fluorene	mg/kg	ND	0.104	0.104	0.0971	0.0986	93.0	94.4	11.0-130	1.47	29	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.104	0.104	0.0984	0.0970	94.3	92.9	10.0-137	1.47	32	
Naphthalene	mg/kg	ND	0.104	0.104	0.0937	0.0933	89.8	89.4	10.0-135	0.419	27	
Phenanthrene	mg/kg	ND	0.104	0.104	0.0957	0.0953	91.6	91.3	10.0-144	0.410	31	
Pyrene	mg/kg	ND	0.104	0.104	0.101	0.100	96.8	95.9	10.0-148	0.908	35	
1-Methylnaphthalene	mg/kg	ND	0.104	0.104	0.0983	0.0979	94.1	93.8	10.0-142	0.399	28	
2-Methylnaphthalene	mg/kg	ND	0.104	0.104	0.0944	0.0929	90.4	89.0	10.0-137	1.53	28	
Nitrobenzene-d5 (S)	%						93.3	90.8	14.0-149			
2-Fluorobiphenyl (S)	%						91.7	92.0	34.0-125			
Terphenyl-d14 (S)	%						102	99.0	23.0-120			

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 1527938
QC Batch Method: 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: SVOA (GC/MS) 8270E-SIM
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 30377174014, 30377174015, 30377174016, 30377174017, 30377174018, 30377174019, 30377174020, 30377174021, 30377174022

METHOD BLANK: R3561400-2
Matrix: Solid
Associated Lab Samples: 30377174014, 30377174015, 30377174016, 30377174017, 30377174018, 30377174019, 30377174020, 30377174021, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Anthracene	mg/kg	<0.00230	0.00600	0.00230	08/18/20 22:19	
Acenaphthene	mg/kg	<0.00209	0.00600	0.00209	08/18/20 22:19	
Acenaphthylene	mg/kg	<0.00216	0.00600	0.00216	08/18/20 22:19	
Benzo(a)anthracene	mg/kg	<0.00173	0.00600	0.00173	08/18/20 22:19	
Benzo(a)pyrene	mg/kg	<0.00179	0.00600	0.00179	08/18/20 22:19	
Benzo(b)fluoranthene	mg/kg	<0.00153	0.00600	0.00153	08/18/20 22:19	
Benzo(g,h,i)perylene	mg/kg	<0.00177	0.00600	0.00177	08/18/20 22:19	
Benzo(k)fluoranthene	mg/kg	<0.00215	0.00600	0.00215	08/18/20 22:19	
Chrysene	mg/kg	<0.00232	0.00600	0.00232	08/18/20 22:19	
Dibenz(a,h)anthracene	mg/kg	<0.00172	0.00600	0.00172	08/18/20 22:19	
Fluoranthene	mg/kg	<0.00227	0.00600	0.00227	08/18/20 22:19	
Fluorene	mg/kg	<0.00205	0.00600	0.00205	08/18/20 22:19	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.00181	0.00600	0.00181	08/18/20 22:19	
Naphthalene	mg/kg	<0.00408	0.0200	0.00408	08/18/20 22:19	
Phenanthrene	mg/kg	<0.00231	0.00600	0.00231	08/18/20 22:19	
Pyrene	mg/kg	<0.00200	0.00600	0.00200	08/18/20 22:19	
1-Methylnaphthalene	mg/kg	<0.00449	0.0200	0.00449	08/18/20 22:19	
2-Methylnaphthalene	mg/kg	<0.00427	0.0200	0.00427	08/18/20 22:19	
Nitrobenzene-d5 (S)	%	95.3	14.0-149		08/18/20 22:19	
2-Fluorobiphenyl (S)	%	96	34.0-125		08/18/20 22:19	
Terphenyl-d14 (S)	%	98.3	23.0-120		08/18/20 22:19	

LABORATORY CONTROL SAMPLE: R3561400-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	mg/kg	0.0800	0.0758	94.8	50.0-126	
Acenaphthene	mg/kg	0.0800	0.0735	91.9	50.0-120	
Acenaphthylene	mg/kg	0.0800	0.0802	100	50.0-120	
Benzo(a)anthracene	mg/kg	0.0800	0.0790	98.8	45.0-120	
Benzo(a)pyrene	mg/kg	0.0800	0.0787	98.4	42.0-120	
Benzo(b)fluoranthene	mg/kg	0.0800	0.0786	98.2	42.0-121	
Benzo(g,h,i)perylene	mg/kg	0.0800	0.0782	97.8	45.0-125	
Benzo(k)fluoranthene	mg/kg	0.0800	0.0718	89.8	49.0-125	
Chrysene	mg/kg	0.0800	0.0761	95.1	49.0-122	
Dibenz(a,h)anthracene	mg/kg	0.0800	0.0797	99.6	47.0-125	
Fluoranthene	mg/kg	0.0800	0.0732	91.5	49.0-129	
Fluorene	mg/kg	0.0800	0.0786	98.2	49.0-120	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

LABORATORY CONTROL SAMPLE: R3561400-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	mg/kg	0.0800	0.0798	99.8	46.0-125	
Naphthalene	mg/kg	0.0800	0.0711	88.9	50.0-120	
Phenanthrene	mg/kg	0.0800	0.0761	95.1	47.0-120	
Pyrene	mg/kg	0.0800	0.0757	94.6	43.0-123	
1-Methylnaphthalene	mg/kg	0.0800	0.0697	87.1	51.0-121	
2-Methylnaphthalene	mg/kg	0.0800	0.0701	87.6	50.0-120	
Nitrobenzene-d5 (S)	%			96.6	14.0-149	
2-Fluorobiphenyl (S)	%			98.4	34.0-125	
Terphenyl-d14 (S)	%			98.2	23.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3561400-3 R3561400-4

Parameter	Units	30377174021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Anthracene	mg/kg	ND	0.0988	0.0988	0.0720	0.0739	72.9	74.8	10.0-145	2.54	30	
Acenaphthene	mg/kg	ND	0.0988	0.0988	0.0715	0.0744	72.4	75.3	14.0-127	3.90	27	
Acenaphthylene	mg/kg	ND	0.0988	0.0988	0.0760	0.0798	76.9	80.7	21.0-124	4.92	25	
Benzo(a)anthracene	mg/kg	ND	0.0988	0.0988	0.0741	0.0748	75.0	75.6	10.0-139	0.830	30	
Benzo(a)pyrene	mg/kg	ND	0.0988	0.0988	0.0754	0.0765	76.3	77.4	10.0-141	1.46	31	
Benzo(b)fluoranthene	mg/kg	ND	0.0988	0.0988	0.0696	0.0797	70.4	80.6	10.0-140	13.6	36	
Benzo(g,h,i)perylene	mg/kg	ND	0.0988	0.0988	0.0746	0.0755	75.5	76.4	10.0-140	1.15	33	
Benzo(k)fluoranthene	mg/kg	ND	0.0988	0.0988	0.0729	0.0659	73.8	66.6	10.0-137	10.2	31	
Chrysene	mg/kg	ND	0.0988	0.0988	0.0754	0.0770	76.3	77.9	10.0-145	2.11	30	
Dibenz(a,h)anthracene	mg/kg	ND	0.0988	0.0988	0.0756	0.0762	76.5	77.1	10.0-132	0.814	31	
Fluoranthene	mg/kg	ND	0.0988	0.0988	0.0729	0.0734	73.8	74.3	10.0-153	0.676	33	
Fluorene	mg/kg	ND	0.0988	0.0988	0.0733	0.0766	74.1	77.5	11.0-130	4.45	29	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0988	0.0988	0.0762	0.0771	77.1	78.0	10.0-137	1.13	32	
Naphthalene	mg/kg	ND	0.0988	0.0988	0.0708	0.0748	71.6	75.6	10.0-135	5.43	27	
Phenanthrene	mg/kg	ND	0.0988	0.0988	0.0739	0.0744	74.8	75.3	10.0-144	0.667	31	
Pyrene	mg/kg	ND	0.0988	0.0988	0.0733	0.0743	74.1	75.1	10.0-148	1.34	35	
1-Methylnaphthalene	mg/kg	ND	0.0988	0.0988	0.0691	0.0717	69.9	72.5	10.0-142	3.69	28	
2-Methylnaphthalene	mg/kg	ND	0.0988	0.0988	0.0687	0.0728	69.5	73.6	10.0-137	5.76	28	
Nitrobenzene-d5 (S)	%						49.5	55.9	14.0-149			
2-Fluorobiphenyl (S)	%						75.4	80.8	34.0-125			
Terphenyl-d14 (S)	%						74.5	76.3	23.0-120			

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 1529534
QC Batch Method: 3511/8015
Analysis Method: EPA 8270D by SIM
Analysis Description: SVOA (GC/MS) 8270D-SIM SPLP
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008, 30377174010, 30377174012, 30377174014, 30377174016, 30377174018, 30377174020, 30377174022

METHOD BLANK: R3562497-2
Matrix: Water
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008, 30377174010, 30377174012, 30377174014, 30377174016, 30377174018, 30377174020, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Anthracene	ug/L	<0.0190	0.0500	0.0190	08/21/20 11:25	
Acenaphthene	ug/L	<0.0190	0.0500	0.0190	08/21/20 11:25	
Acenaphthylene	ug/L	<0.0171	0.0500	0.0171	08/21/20 11:25	
Benzo(a)anthracene	ug/L	<0.0203	0.0500	0.0203	08/21/20 11:25	
Benzo(a)pyrene	ug/L	<0.0184	0.0500	0.0184	08/21/20 11:25	
Benzo(b)fluoranthene	ug/L	<0.0168	0.0500	0.0168	08/21/20 11:25	
Benzo(g,h,i)perylene	ug/L	<0.0184	0.0500	0.0184	08/21/20 11:25	
Benzo(k)fluoranthene	ug/L	<0.0202	0.0500	0.0202	08/21/20 11:25	
Chrysene	ug/L	<0.0179	0.0500	0.0179	08/21/20 11:25	
Dibenz(a,h)anthracene	ug/L	<0.0160	0.0500	0.0160	08/21/20 11:25	
Fluoranthene	ug/L	<0.0270	0.100	0.0270	08/21/20 11:25	
Fluorene	ug/L	<0.0169	0.0500	0.0169	08/21/20 11:25	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0158	0.0500	0.0158	08/21/20 11:25	
Naphthalene	ug/L	<0.0917	0.250	0.0917	08/21/20 11:25	
Phenanthrene	ug/L	<0.0180	0.0500	0.0180	08/21/20 11:25	
Pyrene	ug/L	<0.0169	0.0500	0.0169	08/21/20 11:25	
1-Methylnaphthalene	ug/L	<0.0687	0.250	0.0687	08/21/20 11:25	
2-Methylnaphthalene	ug/L	<0.0674	0.250	0.0674	08/21/20 11:25	
Nitrobenzene-d5 (S)	%	100	31.0-160		08/21/20 11:25	
2-Fluorobiphenyl (S)	%	96.5	48.0-148		08/21/20 11:25	
Terphenyl-d14 (S)	%	96.5	37.0-146		08/21/20 11:25	

LABORATORY CONTROL SAMPLE: R3562497-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Anthracene	ug/L	2.00	2.24	112	67.0-150	
Acenaphthene	ug/L	2.00	2.07	103	65.0-138	
Acenaphthylene	ug/L	2.00	2.17	108	66.0-140	
Benzo(a)anthracene	ug/L	2.00	2.21	111	61.0-140	
Benzo(a)pyrene	ug/L	2.00	2.01	100	60.0-143	
Benzo(b)fluoranthene	ug/L	2.00	2.02	101	58.0-141	
Benzo(g,h,i)perylene	ug/L	2.00	2.01	100	52.0-153	
Benzo(k)fluoranthene	ug/L	2.00	2.05	102	58.0-148	
Chrysene	ug/L	2.00	2.08	104	64.0-144	
Dibenz(a,h)anthracene	ug/L	2.00	1.96	98.0	52.0-155	
Fluoranthene	ug/L	2.00	2.27	114	69.0-153	
Fluorene	ug/L	2.00	2.15	108	64.0-136	

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

LABORATORY CONTROL SAMPLE: R3562497-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/L	2.00	2.02	101	54.0-153	
Naphthalene	ug/L	2.00	2.05	102	61.0-137	
Phenanthrene	ug/L	2.00	2.20	110	62.0-137	
Pyrene	ug/L	2.00	2.18	109	60.0-142	
1-Methylnaphthalene	ug/L	2.00	2.02	101	66.0-142	
2-Methylnaphthalene	ug/L	2.00	1.93	96.5	62.0-136	
Nitrobenzene-d5 (S)	%			105	31.0-160	
2-Fluorobiphenyl (S)	%			99.0	48.0-148	
Terphenyl-d14 (S)	%			97.0	37.0-146	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3562497-3 R3562497-4

Parameter	Units	30377174010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Anthracene	ug/L	ND	2.00	2.00	1.96	2.06	98.0	103	56.0-156	4.98	20	
Acenaphthene	ug/L	ND	2.00	2.00	1.89	1.96	94.5	98.0	44.0-153	3.64	20	
Acenaphthylene	ug/L	ND	2.00	2.00	1.99	2.06	99.5	103	53.0-150	3.46	20	
Benzo(a)anthracene	ug/L	ND	2.00	2.00	1.51	1.70	75.5	85.0	47.0-151	11.8	20	
Benzo(a)pyrene	ug/L	ND	2.00	2.00	1.01	1.20	50.5	60.0	45.0-146	17.2	20	
Benzo(b)fluoranthene	ug/L	ND	2.00	2.00	1.13	1.32	56.5	66.0	43.0-142	15.5	20	
Benzo(g,h,i)perylene	ug/L	ND	2.00	2.00	0.615	0.793	30.8	39.6	40.0-147	25.3	20	ML,R1
Benzo(k)fluoranthene	ug/L	ND	2.00	2.00	0.940	1.13	47.0	56.5	43.0-148	18.4	21	
Chrysene	ug/L	ND	2.00	2.00	1.30	1.50	65.0	75.0	50.0-148	14.3	20	
Dibenz(a,h)anthracene	ug/L	ND	2.00	2.00	0.535	0.684	26.7	34.2	37.0-151	24.4	20	ML,R1
Fluoranthene	ug/L	ND	2.00	2.00	1.90	2.01	95.0	100	56.0-157	5.63	20	
Fluorene	ug/L	ND	2.00	2.00	1.93	2.01	96.5	100	48.0-148	4.06	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2.00	2.00	0.715	0.884	35.7	44.2	41.0-148	21.1	20	ML,R1
Naphthalene	ug/L	ND	2.00	2.00	1.92	2.00	96.0	100	10.0-160	4.08	20	
Phenanthrene	ug/L	ND	2.00	2.00	1.96	2.02	98.0	101	47.0-147	3.02	20	
Pyrene	ug/L	ND	2.00	2.00	1.84	1.97	92.0	98.5	51.0-148	6.82	20	
1-Methylnaphthalene	ug/L	ND	2.00	2.00	1.85	1.94	92.5	97.0	21.0-160	4.75	20	
2-Methylnaphthalene	ug/L	ND	2.00	2.00	1.78	1.86	89.0	93.0	31.0-160	4.40	20	
Nitrobenzene-d5 (S)	%						99.5	101	31.0-160			
2-Fluorobiphenyl (S)	%						87.0	93.5	48.0-148			
Terphenyl-d14 (S)	%						48.0	59.5	37.0-146			

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 410079
QC Batch Method: EPA 5035A
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV 5035 Low
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008, 30377174010, 30377174012, 30377174014, 30377174016

METHOD BLANK: 1984482
Matrix: Solid
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008, 30377174010, 30377174012, 30377174014, 30377174016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<1.5	5.0	1.5	08/19/20 23:16	
1,1,2,2-Tetrachloroethane	ug/kg	<0.59	5.0	0.59	08/19/20 23:16	
1,1,2-Trichloroethane	ug/kg	<0.99	5.0	0.99	08/19/20 23:16	
1,1,2-Trichlorotrifluoroethane	ug/kg	<2.2	50.0	2.2	08/19/20 23:16	
1,1-Dichloroethane	ug/kg	<1.3	5.0	1.3	08/19/20 23:16	
1,1-Dichloroethene	ug/kg	<1.9	5.0	1.9	08/19/20 23:16	
1,2,3-Trichlorobenzene	ug/kg	<0.95	5.0	0.95	08/19/20 23:16	
1,2,4-Trichlorobenzene	ug/kg	<1.3	5.0	1.3	08/19/20 23:16	
1,2,4-Trimethylbenzene	ug/kg	<2.4	5.0	2.4	08/19/20 23:16	
1,2-Dibromo-3-chloropropane	ug/kg	<1.2	5.0	1.2	08/19/20 23:16	
1,2-Dibromoethane (EDB)	ug/kg	<0.80	5.0	0.80	08/19/20 23:16	
1,2-Dichlorobenzene	ug/kg	<0.59	5.0	0.59	08/19/20 23:16	
1,2-Dichloroethane	ug/kg	<1.3	5.0	1.3	08/19/20 23:16	
1,2-Dichloropropane	ug/kg	<0.72	5.0	0.72	08/19/20 23:16	
1,3,5-Trimethylbenzene	ug/kg	<2.0	5.0	2.0	08/19/20 23:16	
1,3-Dichlorobenzene	ug/kg	<0.65	5.0	0.65	08/19/20 23:16	
1,4-Dichlorobenzene	ug/kg	<0.71	5.0	0.71	08/19/20 23:16	
2-Butanone (MEK)	ug/kg	<0.91	10.0	0.91	08/19/20 23:16	
2-Hexanone	ug/kg	<0.98	10.0	0.98	08/19/20 23:16	
4-Methyl-2-pentanone (MIBK)	ug/kg	<1.1	10.0	1.1	08/19/20 23:16	
Acetone	ug/kg	<3.2	10.0	3.2	08/19/20 23:16	
Benzene	ug/kg	<0.87	5.0	0.87	08/19/20 23:16	
Bromodichloromethane	ug/kg	<1.1	5.0	1.1	08/19/20 23:16	
Bromoform	ug/kg	<0.66	5.0	0.66	08/19/20 23:16	
Bromomethane	ug/kg	<1.9	5.0	1.9	08/19/20 23:16	1c
Carbon disulfide	ug/kg	<1.4	5.0	1.4	08/19/20 23:16	
Carbon tetrachloride	ug/kg	<1.7	5.0	1.7	08/19/20 23:16	
Chlorobenzene	ug/kg	<0.78	5.0	0.78	08/19/20 23:16	
Chloroethane	ug/kg	<2.1	5.0	2.1	08/19/20 23:16	
Chloroform	ug/kg	<1.5	5.0	1.5	08/19/20 23:16	
Chloromethane	ug/kg	<1.7	5.0	1.7	08/19/20 23:16	
cis-1,2-Dichloroethene	ug/kg	<1.2	5.0	1.2	08/19/20 23:16	
cis-1,3-Dichloropropene	ug/kg	<0.50	5.0	0.50	08/19/20 23:16	
Cyclohexane	ug/kg	<1.9	10.0	1.9	08/19/20 23:16	
Dibromochloromethane	ug/kg	<0.79	5.0	0.79	08/19/20 23:16	
Dichlorodifluoromethane	ug/kg	<2.7	5.0	2.7	08/19/20 23:16	
Ethylbenzene	ug/kg	<1.1	5.0	1.1	08/19/20 23:16	
Isopropylbenzene (Cumene)	ug/kg	<1.2	5.0	1.2	08/19/20 23:16	
Methyl acetate	ug/kg	<1.1	50.0	1.1	08/19/20 23:16	1c

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

METHOD BLANK: 1984482 Matrix: Solid

Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008, 30377174010, 30377174012, 30377174014, 30377174016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methyl-tert-butyl ether	ug/kg	<0.67	5.0	0.67	08/19/20 23:16	
Methylcyclohexane	ug/kg	<3.1	10.0	3.1	08/19/20 23:16	
Methylene Chloride	ug/kg	<4.2	5.0	4.2	08/19/20 23:16	
Styrene	ug/kg	<1.4	5.0	1.4	08/19/20 23:16	
Tetrachloroethene	ug/kg	<1.7	5.0	1.7	08/19/20 23:16	
Toluene	ug/kg	<0.99	5.0	0.99	08/19/20 23:16	
trans-1,2-Dichloroethene	ug/kg	<1.3	5.0	1.3	08/19/20 23:16	
trans-1,3-Dichloropropene	ug/kg	<1.0	5.0	1.0	08/19/20 23:16	
Trichloroethene	ug/kg	<1.5	5.0	1.5	08/19/20 23:16	
Trichlorofluoromethane	ug/kg	<2.2	5.0	2.2	08/19/20 23:16	
Vinyl chloride	ug/kg	<2.2	5.0	2.2	08/19/20 23:16	
Xylene (Total)	ug/kg	<3.2	15.0	3.2	08/19/20 23:16	
1,2-Dichloroethane-d4 (S)	%.	108	70-130		08/19/20 23:16	
4-Bromofluorobenzene (S)	%.	101	70-130		08/19/20 23:16	
Dibromofluoromethane (S)	%.	106	70-130		08/19/20 23:16	
Toluene-d8 (S)	%.	96	70-130		08/19/20 23:16	

LABORATORY CONTROL SAMPLE: 1984483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	21.0	105	62-129	
1,1,2,2-Tetrachloroethane	ug/kg	20	18.1	91	60-108	
1,1,2-Trichloroethane	ug/kg	20	18.2	91	61-114	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	18.9J	94	16-175	
1,1-Dichloroethane	ug/kg	20	19.9	99	54-121	
1,1-Dichloroethene	ug/kg	20	17.6	88	49-111	
1,2,3-Trichlorobenzene	ug/kg	20	18.7	94	64-118	
1,2,4-Trichlorobenzene	ug/kg	20	19.1	95	60-126	
1,2,4-Trimethylbenzene	ug/kg	20	19.7	99	58-126	
1,2-Dibromo-3-chloropropane	ug/kg	20	16.3	82	50-116	
1,2-Dibromoethane (EDB)	ug/kg	20	17.6	88	60-115	
1,2-Dichlorobenzene	ug/kg	20	19.8	99	70-130	
1,2-Dichloroethane	ug/kg	20	18.7	94	62-112	
1,2-Dichloropropane	ug/kg	20	19.0	95	59-112	
1,3,5-Trimethylbenzene	ug/kg	20	19.8	99	56-124	
1,3-Dichlorobenzene	ug/kg	20	19.9	100	63-122	
1,4-Dichlorobenzene	ug/kg	20	19.7	98	63-117	
2-Butanone (MEK)	ug/kg	20	16.0	80	52-111	
2-Hexanone	ug/kg	20	16.1	81	51-113	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	16.6	83	55-112	
Acetone	ug/kg	20	19.5	97	10-175	
Benzene	ug/kg	20	19.5	98	51-123	
Bromodichloromethane	ug/kg	20	19.9	99	59-113	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

LABORATORY CONTROL SAMPLE: 1984483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/kg	20	17.7	89	50-95	
Bromomethane	ug/kg	20	22.9	114	50-136	1c
Carbon disulfide	ug/kg	20	18.5	92	44-125	
Carbon tetrachloride	ug/kg	20	18.7	94	53-115	
Chlorobenzene	ug/kg	20	19.1	96	63-119	
Chloroethane	ug/kg	20	17.8	89	13-154	
Chloroform	ug/kg	20	19.4	97	57-115	
Chloromethane	ug/kg	20	21.4	107	57-112	
cis-1,2-Dichloroethene	ug/kg	20	18.7	93	56-114	
cis-1,3-Dichloropropene	ug/kg	20	18.2	91	59-108	
Cyclohexane	ug/kg	20	19.3	97	58-113	
Dibromochloromethane	ug/kg	20	17.3	87	59-102	
Dichlorodifluoromethane	ug/kg	20	20.3	101	56-152	
Ethylbenzene	ug/kg	20	19.8	99	61-123	
Isopropylbenzene (Cumene)	ug/kg	20	21.4	107	62-136	
Methyl acetate	ug/kg	20	16.3J	81	23-128	1c
Methyl-tert-butyl ether	ug/kg	20	17.7	88	60-108	
Methylcyclohexane	ug/kg	20	18.4	92	46-144	
Methylene Chloride	ug/kg	20	20.6	103	20-159	
Styrene	ug/kg	20	20.0	100	63-119	
Tetrachloroethene	ug/kg	20	19.0	95	57-124	
Toluene	ug/kg	20	19.1	95	56-120	
trans-1,2-Dichloroethene	ug/kg	20	19.0	95	53-115	
trans-1,3-Dichloropropene	ug/kg	20	17.6	88	60-107	
Trichloroethene	ug/kg	20	18.8	94	61-115	
Trichlorofluoromethane	ug/kg	20	19.4	97	67-127	
Vinyl chloride	ug/kg	20	19.4	97	61-120	
Xylene (Total)	ug/kg	60	58.8	98	57-125	
1,2-Dichloroethane-d4 (S)	%.			97	70-130	
4-Bromofluorobenzene (S)	%.			99	70-130	
Dibromofluoromethane (S)	%.			99	70-130	
Toluene-d8 (S)	%.			99	70-130	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 410307
QC Batch Method: EPA 5035A
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV 5035 Low
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174018, 30377174020, 30377174022

METHOD BLANK: 1985516
Matrix: Solid
Associated Lab Samples: 30377174018, 30377174020, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<1.5	5.0	1.5	08/20/20 11:44	
1,1,2,2-Tetrachloroethane	ug/kg	<0.59	5.0	0.59	08/20/20 11:44	
1,1,2-Trichloroethane	ug/kg	<0.99	5.0	0.99	08/20/20 11:44	
1,1,2-Trichlorotrifluoroethane	ug/kg	<2.2	50.0	2.2	08/20/20 11:44	
1,1-Dichloroethane	ug/kg	<1.3	5.0	1.3	08/20/20 11:44	
1,1-Dichloroethene	ug/kg	<1.9	5.0	1.9	08/20/20 11:44	
1,2,3-Trichlorobenzene	ug/kg	<0.95	5.0	0.95	08/20/20 11:44	
1,2,4-Trichlorobenzene	ug/kg	<1.3	5.0	1.3	08/20/20 11:44	
1,2,4-Trimethylbenzene	ug/kg	<2.4	5.0	2.4	08/20/20 11:44	
1,2-Dibromo-3-chloropropane	ug/kg	<1.2	5.0	1.2	08/20/20 11:44	
1,2-Dibromoethane (EDB)	ug/kg	<0.80	5.0	0.80	08/20/20 11:44	
1,2-Dichlorobenzene	ug/kg	<0.59	5.0	0.59	08/20/20 11:44	
1,2-Dichloroethane	ug/kg	<1.3	5.0	1.3	08/20/20 11:44	
1,2-Dichloropropane	ug/kg	<0.72	5.0	0.72	08/20/20 11:44	
1,3,5-Trimethylbenzene	ug/kg	<2.0	5.0	2.0	08/20/20 11:44	
1,3-Dichlorobenzene	ug/kg	<0.65	5.0	0.65	08/20/20 11:44	
1,4-Dichlorobenzene	ug/kg	<0.71	5.0	0.71	08/20/20 11:44	
2-Butanone (MEK)	ug/kg	<0.91	10.0	0.91	08/20/20 11:44	
2-Hexanone	ug/kg	<0.98	10.0	0.98	08/20/20 11:44	
4-Methyl-2-pentanone (MIBK)	ug/kg	<1.1	10.0	1.1	08/20/20 11:44	CL
Acetone	ug/kg	7.1J	10.0	3.2	08/20/20 11:44	
Benzene	ug/kg	<0.87	5.0	0.87	08/20/20 11:44	
Bromodichloromethane	ug/kg	<1.1	5.0	1.1	08/20/20 11:44	
Bromoform	ug/kg	<0.66	5.0	0.66	08/20/20 11:44	
Bromomethane	ug/kg	<1.9	5.0	1.9	08/20/20 11:44	
Carbon disulfide	ug/kg	<1.4	5.0	1.4	08/20/20 11:44	
Carbon tetrachloride	ug/kg	<1.7	5.0	1.7	08/20/20 11:44	
Chlorobenzene	ug/kg	<0.78	5.0	0.78	08/20/20 11:44	
Chloroethane	ug/kg	<2.1	5.0	2.1	08/20/20 11:44	
Chloroform	ug/kg	<1.5	5.0	1.5	08/20/20 11:44	
Chloromethane	ug/kg	<1.7	5.0	1.7	08/20/20 11:44	
cis-1,2-Dichloroethene	ug/kg	<1.2	5.0	1.2	08/20/20 11:44	
cis-1,3-Dichloropropene	ug/kg	<0.50	5.0	0.50	08/20/20 11:44	
Cyclohexane	ug/kg	<1.9	10.0	1.9	08/20/20 11:44	
Dibromochloromethane	ug/kg	<0.79	5.0	0.79	08/20/20 11:44	
Dichlorodifluoromethane	ug/kg	<2.7	5.0	2.7	08/20/20 11:44	CH,IH
Ethylbenzene	ug/kg	<1.1	5.0	1.1	08/20/20 11:44	
Isopropylbenzene (Cumene)	ug/kg	<1.2	5.0	1.2	08/20/20 11:44	
Methyl acetate	ug/kg	<1.1	50.0	1.1	08/20/20 11:44	1c
Methyl-tert-butyl ether	ug/kg	<0.67	5.0	0.67	08/20/20 11:44	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

METHOD BLANK: 1985516 Matrix: Solid
Associated Lab Samples: 30377174018, 30377174020, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methylcyclohexane	ug/kg	<3.1	10.0	3.1	08/20/20 11:44	
Methylene Chloride	ug/kg	<4.2	5.0	4.2	08/20/20 11:44	
Styrene	ug/kg	<1.4	5.0	1.4	08/20/20 11:44	
Tetrachloroethene	ug/kg	<1.7	5.0	1.7	08/20/20 11:44	
Toluene	ug/kg	<0.99	5.0	0.99	08/20/20 11:44	
trans-1,2-Dichloroethene	ug/kg	<1.3	5.0	1.3	08/20/20 11:44	
trans-1,3-Dichloropropene	ug/kg	<1.0	5.0	1.0	08/20/20 11:44	
Trichloroethene	ug/kg	<1.5	5.0	1.5	08/20/20 11:44	
Trichlorofluoromethane	ug/kg	<2.2	5.0	2.2	08/20/20 11:44	
Vinyl chloride	ug/kg	<2.2	5.0	2.2	08/20/20 11:44	
Xylene (Total)	ug/kg	<3.2	15.0	3.2	08/20/20 11:44	
1,2-Dichloroethane-d4 (S)	%.	116	70-130		08/20/20 11:44	
4-Bromofluorobenzene (S)	%.	102	70-130		08/20/20 11:44	
Dibromofluoromethane (S)	%.	107	70-130		08/20/20 11:44	
Toluene-d8 (S)	%.	90	70-130		08/20/20 11:44	

LABORATORY CONTROL SAMPLE: 1985517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	20	20.7	104	62-129	
1,1,2,2-Tetrachloroethane	ug/kg	20	18.7	94	60-108	
1,1,2-Trichloroethane	ug/kg	20	17.7	89	61-114	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	14.5J	72	16-175	
1,1-Dichloroethane	ug/kg	20	18.8	94	54-121	
1,1-Dichloroethene	ug/kg	20	18.5	92	49-111	
1,2,3-Trichlorobenzene	ug/kg	20	17.1	86	64-118	
1,2,4-Trichlorobenzene	ug/kg	20	17.4	87	60-126	
1,2,4-Trimethylbenzene	ug/kg	20	18.8	94	58-126	
1,2-Dibromo-3-chloropropane	ug/kg	20	15.6	78	50-116	
1,2-Dibromoethane (EDB)	ug/kg	20	17.5	88	60-115	
1,2-Dichlorobenzene	ug/kg	20	18.2	91	70-130	
1,2-Dichloroethane	ug/kg	20	19.6	98	62-112	
1,2-Dichloropropane	ug/kg	20	17.0	85	59-112	
1,3,5-Trimethylbenzene	ug/kg	20	17.6	88	56-124	
1,3-Dichlorobenzene	ug/kg	20	17.8	89	63-122	
1,4-Dichlorobenzene	ug/kg	20	17.5	87	63-117	
2-Butanone (MEK)	ug/kg	20	17.7	88	52-111	
2-Hexanone	ug/kg	20	15.0	75	51-113	
4-Methyl-2-pentanone (MIBK)	ug/kg	20	11.8	59	55-112	CL
Acetone	ug/kg	20	24.5	122	10-175	
Benzene	ug/kg	20	16.7	83	51-123	
Bromodichloromethane	ug/kg	20	18.3	92	59-113	
Bromoform	ug/kg	20	13.7	69	50-95	
Bromomethane	ug/kg	20	16.9	85	50-136	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

LABORATORY CONTROL SAMPLE: 1985517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon disulfide	ug/kg	20	15.8	79	44-125	
Carbon tetrachloride	ug/kg	20	17.8	89	53-115	
Chlorobenzene	ug/kg	20	17.8	89	63-119	
Chloroethane	ug/kg	20	16.1	80	13-154	
Chloroform	ug/kg	20	18.9	95	57-115	
Chloromethane	ug/kg	20	17.8	89	57-112	
cis-1,2-Dichloroethene	ug/kg	20	18.0	90	56-114	
cis-1,3-Dichloropropene	ug/kg	20	16.3	82	59-108	
Cyclohexane	ug/kg	20	14.7	74	58-113	
Dibromochloromethane	ug/kg	20	16.8	84	59-102	
Dichlorodifluoromethane	ug/kg	20	24.9	124	56-152	CH,IH
Ethylbenzene	ug/kg	20	17.7	88	61-123	
Isopropylbenzene (Cumene)	ug/kg	20	20.2	101	62-136	
Methyl acetate	ug/kg	20	16.7J	83	23-128	1c
Methyl-tert-butyl ether	ug/kg	20	16.8	84	60-108	
Methylcyclohexane	ug/kg	20	14.5	72	46-144	
Methylene Chloride	ug/kg	20	21.2	106	20-159	
Styrene	ug/kg	20	18.2	91	63-119	
Tetrachloroethene	ug/kg	20	15.5	77	57-124	
Toluene	ug/kg	20	16.4	82	56-120	
trans-1,2-Dichloroethene	ug/kg	20	18.2	91	53-115	
trans-1,3-Dichloropropene	ug/kg	20	18.1	91	60-107	
Trichloroethene	ug/kg	20	18.4	92	61-115	
Trichlorofluoromethane	ug/kg	20	16.3	81	67-127	
Vinyl chloride	ug/kg	20	15.0	75	61-120	
Xylene (Total)	ug/kg	60	53.0	88	57-125	
1,2-Dichloroethane-d4 (S)	%.			111	70-130	
4-Bromofluorobenzene (S)	%.			101	70-130	
Dibromofluoromethane (S)	%.			105	70-130	
Toluene-d8 (S)	%.			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985518 1985519

Parameter	Units	30377174020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<2.6	24.8	20	21.0	18.0	84	90	35-127	15	30	
1,1,2,2-Tetrachloroethane	ug/kg	<1.0	24.8	20	13.9	11.9	56	59	10-128	15	30	
1,1,2-Trichloroethane	ug/kg	<1.7	24.8	20	14.4	11.5	58	57	16-132	23	30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<3.7	24.8	20	16.9J	15.5J	68	77	12-175		30	
1,1-Dichloroethane	ug/kg	<2.2	24.8	20	17.5	14.4	70	72	36-112	19	30	
1,1-Dichloroethene	ug/kg	<3.2	24.8	20	18.8	16.0	75	80	10-112	16	30	
1,2,3-Trichlorobenzene	ug/kg	<1.6	24.8	20	5.8J	5.6	23	28	10-133		30	
1,2,4-Trichlorobenzene	ug/kg	<2.2	24.8	20	5.8J	6.0	23	30	10-135		30	
1,2,4-Trimethylbenzene	ug/kg	<4.2	24.8	20	12.6	12.3	50	61	10-150	2	30	

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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985518 1985519

Parameter	Units	30377174020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/kg	<2.1	24.8	20	10.8	8.6	43	43	10-115	22	30	
1,2-Dibromoethane (EDB)	ug/kg	<1.4	24.8	20	12.9	11.3	52	56	23-123	14	30	
1,2-Dichlorobenzene	ug/kg	<1.0	24.8	20	10.4	9.9	42	49	10-144	4	30	
1,2-Dichloroethane	ug/kg	<2.2	24.8	20	17.5	13.8	70	69	32-111	24	30	
1,2-Dichloropropane	ug/kg	<1.2	24.8	20	14.8	13.1	60	65	25-124	12	30	
1,3,5-Trimethylbenzene	ug/kg	<3.5	24.8	20	12.7	12.2	51	61	10-129	4	30	
1,3-Dichlorobenzene	ug/kg	<1.1	24.8	20	10.8	10	44	50	10-149	8	30	
1,4-Dichlorobenzene	ug/kg	<1.2	24.8	20	9.7	9.6	39	48	10-149	0	30	
2-Butanone (MEK)	ug/kg	<1.6	24.8	20	17.9	10.5	72	52	10-153	52	30	R1
2-Hexanone	ug/kg	<1.7	24.8	20	11.1J	8.3J	45	41	10-175		30	
4-Methyl-2-pentanone (MIBK)	ug/kg	<1.9	24.8	20	10.6J	7.5J	43	38	10-147		30	CL
Acetone	ug/kg	16.4J	24.8	20	50.3	32.7	136	81	10-175	42	30	R1
Benzene	ug/kg	<1.5	24.8	20	15.9	13.2	64	66	29-120	19	30	
Bromodichloromethane	ug/kg	<1.9	24.8	20	15.9	13.0	64	65	26-116	20	30	
Bromoform	ug/kg	<1.1	24.8	20	9.8	8.2	40	41	10-110	18	30	
Bromomethane	ug/kg	<3.2	24.8	20	16.9	14.6	68	73	10-122	15	30	
Carbon disulfide	ug/kg	<2.4	24.8	20	20.0	19.3	78	93	10-110	4	30	
Carbon tetrachloride	ug/kg	<3.0	24.8	20	18.0	16.1	73	80	27-118	11	30	
Chlorobenzene	ug/kg	<1.3	24.8	20	13.2	12.5	53	62	10-139	5	30	
Chloroethane	ug/kg	<3.6	24.8	20	18.9	15.1	76	75	10-138	23	30	
Chloroform	ug/kg	<2.6	24.8	20	17.1	14.3	69	71	31-118	18	30	
Chloromethane	ug/kg	<2.9	24.8	20	18.1	14.8	73	74	10-162	20	30	
cis-1,2-Dichloroethene	ug/kg	<2.0	24.8	20	16.5	13.8	66	69	24-126	18	30	
cis-1,3-Dichloropropene	ug/kg	<0.86	24.8	20	12.2	10.3	49	52	10-128	17	30	
Cyclohexane	ug/kg	<3.2	24.8	20	17.5	15.3	71	76	13-175	14	30	
Dibromochloromethane	ug/kg	<1.4	24.8	20	12.5	10.8	50	54	10-117	14	30	
Dichlorodifluoromethane	ug/kg	<4.7	24.8	20	25.3	21.1	102	105	10-175	18	30	CH,IH
Ethylbenzene	ug/kg	<1.9	24.8	20	15.3	13.6	62	68	10-136	12	30	
Isopropylbenzene (Cumene)	ug/kg	<2.0	24.8	20	16.7	15.5	67	77	10-145	8	30	
Methyl acetate	ug/kg	<1.9	24.8	20	9.0J	8.7J	36	44	10-175		30	1c
Methyl-tert-butyl ether	ug/kg	<1.2	24.8	20	15.9	12.0	64	60	30-110	29	30	
Methylcyclohexane	ug/kg	<5.4	24.8	20	15.1	13.4	61	67	10-175	12	30	
Methylene Chloride	ug/kg	<7.2	24.8	20	18.8	14.6	76	73	10-131	25	30	
Styrene	ug/kg	<2.5	24.8	20	9.2	8.7	37	43	10-118	6	30	
Tetrachloroethene	ug/kg	<3.0	24.8	20	13.8	12.2	55	61	10-144	12	30	
Toluene	ug/kg	<1.7	24.8	20	14.5	12.4	58	62	13-132	15	30	
trans-1,2-Dichloroethene	ug/kg	<2.2	24.8	20	17.1	14.7	69	73	21-121	15	30	
trans-1,3-Dichloropropene	ug/kg	<1.8	24.8	20	12.0	9.9	48	49	10-131	19	30	
Trichloroethene	ug/kg	<2.5	24.8	20	16.1	14.5	65	72	10-170	11	30	
Trichlorofluoromethane	ug/kg	<3.7	24.8	20	20.4	17.1	82	85	25-142	17	30	
Vinyl chloride	ug/kg	<3.7	24.8	20	18.1	15.2	73	76	10-175	17	30	
Xylene (Total)	ug/kg	<5.5	74.7	60.2	41.8	38.4	56	64	12-128	9	30	
1,2-Dichloroethane-d4 (S)	%.						114	110	70-130			

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985518 1985519

Parameter	Units	30377174020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%.						101	103	70-130			
Dibromofluoromethane (S)	%.						106	105	70-130			
Toluene-d8 (S)	%.						93	94	70-130			

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 409844
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008

METHOD BLANK: 1982567
Matrix: Solid
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<15.1	50.0	15.1	08/18/20 17:59	
1,1,2,2-Tetrachloroethane	ug/L	<5.9	50.0	5.9	08/18/20 17:59	
1,1,2-Trichloroethane	ug/L	<9.9	50.0	9.9	08/18/20 17:59	
1,1,2-Trichlorotrifluoroethane	ug/L	<21.5	500	21.5	08/18/20 17:59	
1,1-Dichloroethane	ug/L	<12.6	50.0	12.6	08/18/20 17:59	
1,1-Dichloroethene	ug/L	<18.6	50.0	18.6	08/18/20 17:59	
1,2,3-Trichlorobenzene	ug/L	<9.5	50.0	9.5	08/18/20 17:59	
1,2,4-Trichlorobenzene	ug/L	<12.7	50.0	12.7	08/18/20 17:59	
1,2,4-Trimethylbenzene	ug/L	<24.4	50.0	24.4	08/18/20 17:59	
1,2-Dibromo-3-chloropropane	ug/L	<12.0	50.0	12.0	08/18/20 17:59	
1,2-Dibromoethane (EDB)	ug/L	<8.0	50.0	8.0	08/18/20 17:59	
1,2-Dichlorobenzene	ug/L	<5.9	50.0	5.9	08/18/20 17:59	
1,2-Dichloroethane	ug/L	<12.9	50.0	12.9	08/18/20 17:59	
1,2-Dichloropropane	ug/L	<7.2	50.0	7.2	08/18/20 17:59	
1,3,5-Trimethylbenzene	ug/L	<20.3	50.0	20.3	08/18/20 17:59	
1,3-Dichlorobenzene	ug/L	<6.5	50.0	6.5	08/18/20 17:59	
1,4-Dichlorobenzene	ug/L	<7.1	50.0	7.1	08/18/20 17:59	
2-Butanone (MEK)	ug/L	<9.1	100	9.1	08/18/20 17:59	
2-Hexanone	ug/L	<9.8	100	9.8	08/18/20 17:59	
4-Methyl-2-pentanone (MIBK)	ug/L	<11.2	100	11.2	08/18/20 17:59	
Acetone	ug/L	34.2J	100	31.8	08/18/20 17:59	
Benzene	ug/L	<8.7	50.0	8.7	08/18/20 17:59	
Bromodichloromethane	ug/L	<10.9	50.0	10.9	08/18/20 17:59	
Bromoform	ug/L	<6.6	50.0	6.6	08/18/20 17:59	
Bromomethane	ug/L	<18.6	50.0	18.6	08/18/20 17:59	1c
Carbon disulfide	ug/L	<14.2	50.0	14.2	08/18/20 17:59	
Carbon tetrachloride	ug/L	<17.2	50.0	17.2	08/18/20 17:59	
Chlorobenzene	ug/L	<7.8	50.0	7.8	08/18/20 17:59	
Chloroethane	ug/L	<20.9	50.0	20.9	08/18/20 17:59	
Chloroform	ug/L	<15.0	50.0	15.0	08/18/20 17:59	
Chloromethane	ug/L	<16.9	50.0	16.9	08/18/20 17:59	
cis-1,2-Dichloroethene	ug/L	<11.6	50.0	11.6	08/18/20 17:59	
cis-1,3-Dichloropropene	ug/L	<5.0	50.0	5.0	08/18/20 17:59	
Cyclohexane	ug/L	<18.8	100	18.8	08/18/20 17:59	
Dibromochloromethane	ug/L	<7.9	50.0	7.9	08/18/20 17:59	
Dichlorodifluoromethane	ug/L	<27.1	50.0	27.1	08/18/20 17:59	
Ethylbenzene	ug/L	<10.8	50.0	10.8	08/18/20 17:59	
Isopropylbenzene (Cumene)	ug/L	<11.6	50.0	11.6	08/18/20 17:59	
Methyl acetate	ug/L	<10.9	500	10.9	08/18/20 17:59	1c
Methyl-tert-butyl ether	ug/L	<6.7	50.0	6.7	08/18/20 17:59	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

METHOD BLANK: 1982567 Matrix: Solid
Associated Lab Samples: 30377174002, 30377174005, 30377174007, 30377174008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methylcyclohexane	ug/L	<31.1	100	31.1	08/18/20 17:59	
Methylene Chloride	ug/L	<41.9	50.0	41.9	08/18/20 17:59	
Styrene	ug/L	<14.4	50.0	14.4	08/18/20 17:59	
Tetrachloroethene	ug/L	<17.3	50.0	17.3	08/18/20 17:59	
Toluene	ug/L	<9.9	50.0	9.9	08/18/20 17:59	
trans-1,2-Dichloroethene	ug/L	<12.7	50.0	12.7	08/18/20 17:59	
trans-1,3-Dichloropropene	ug/L	<10.4	50.0	10.4	08/18/20 17:59	
Trichloroethene	ug/L	<14.7	50.0	14.7	08/18/20 17:59	
Trichlorofluoromethane	ug/L	<21.6	50.0	21.6	08/18/20 17:59	
Vinyl chloride	ug/L	<21.5	50.0	21.5	08/18/20 17:59	
Xylene (Total)	ug/L	<31.7	150	31.7	08/18/20 17:59	
1,2-Dichloroethane-d4 (S)	%.	111	70-130		08/18/20 17:59	
4-Bromofluorobenzene (S)	%.	100	70-130		08/18/20 17:59	
Dibromofluoromethane (S)	%.	107	70-130		08/18/20 17:59	
Toluene-d8 (S)	%.	94	70-130		08/18/20 17:59	

LABORATORY CONTROL SAMPLE: 1983299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.4	102	62-129	
1,1,2,2-Tetrachloroethane	ug/L	20	16.6	83	60-108	
1,1,2-Trichloroethane	ug/L	20	17.0	85	61-114	
1,1,2-Trichlorotrifluoroethane	ug/L	20	16.8J	84	16-175	
1,1-Dichloroethane	ug/L	20	18.2	91	54-121	
1,1-Dichloroethene	ug/L	20	17.0	85	49-111	
1,2,3-Trichlorobenzene	ug/L	20	18.3	92	64-118	
1,2,4-Trichlorobenzene	ug/L	20	18.4	92	60-126	
1,2,4-Trimethylbenzene	ug/L	20	17.9	90	58-126	
1,2-Dibromo-3-chloropropane	ug/L	20	17.5	88	50-116	
1,2-Dibromoethane (EDB)	ug/L	20	17.3	86	60-115	
1,2-Dichlorobenzene	ug/L	20	18.4	92	70-130	
1,2-Dichloroethane	ug/L	20	17.8	89	62-112	
1,2-Dichloropropane	ug/L	20	17.3	86	59-112	
1,3,5-Trimethylbenzene	ug/L	20	17.7	88	56-124	
1,3-Dichlorobenzene	ug/L	20	18.4	92	63-122	
1,4-Dichlorobenzene	ug/L	20	17.9	90	63-117	
2-Butanone (MEK)	ug/L	20	16.6	83	52-111	
2-Hexanone	ug/L	20	15.8	79	51-113	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.1	81	55-112	
Acetone	ug/L	20	24.8	124	10-175	
Benzene	ug/L	20	18.3	91	51-123	
Bromodichloromethane	ug/L	20	19.3	96	59-113	
Bromoform	ug/L	20	17.7	89	50-95	
Bromomethane	ug/L	20	21.8	109	50-136	1c

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

LABORATORY CONTROL SAMPLE: 1983299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon disulfide	ug/L	20	17.2	86	44-125	
Carbon tetrachloride	ug/L	20	18.6	93	53-115	
Chlorobenzene	ug/L	20	18.0	90	63-119	
Chloroethane	ug/L	20	15.5	77	13-154	
Chloroform	ug/L	20	18.3	92	57-115	
Chloromethane	ug/L	20	17.6	88	57-112	
cis-1,2-Dichloroethene	ug/L	20	17.6	88	56-114	
cis-1,3-Dichloropropene	ug/L	20	17.3	87	59-108	
Cyclohexane	ug/L	20	16.8	84	58-113	
Dibromochloromethane	ug/L	20	17.0	85	59-102	
Dichlorodifluoromethane	ug/L	20	16.6	83	56-152	
Ethylbenzene	ug/L	20	17.8	89	61-123	
Isopropylbenzene (Cumene)	ug/L	20	19.7	98	62-136	
Methyl acetate	ug/L	20	17.0J	85	23-128	1c
Methyl-tert-butyl ether	ug/L	20	16.7	84	60-108	
Methylcyclohexane	ug/L	20	15.8	79	46-144	
Methylene Chloride	ug/L	20	17.6	88	20-159	
Styrene	ug/L	20	18.6	93	63-119	
Tetrachloroethene	ug/L	20	17.1	85	57-124	
Toluene	ug/L	20	17.5	87	56-120	
trans-1,2-Dichloroethene	ug/L	20	18.1	90	53-115	
trans-1,3-Dichloropropene	ug/L	20	16.7	84	60-107	
Trichloroethene	ug/L	20	18.0	90	61-115	
Trichlorofluoromethane	ug/L	20	17.8	89	67-127	
Vinyl chloride	ug/L	20	17.4	87	61-120	
Xylene (Total)	ug/L	60	53.6	89	57-125	
1,2-Dichloroethane-d4 (S)	%.			95	70-130	
4-Bromofluorobenzene (S)	%.			99	70-130	
Dibromofluoromethane (S)	%.			102	70-130	
Toluene-d8 (S)	%.			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1983297 1983298

Parameter	Units	30377174002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<15.1	200	200	185	186	92	93	35-127	0	30	
1,1,2,2-Tetrachloroethane	ug/L	<5.9	200	200	165	166	82	83	10-128	1	30	
1,1,2-Trichloroethane	ug/L	<9.9	200	200	172	169	86	84	16-132	2	30	
1,1,2-Trichlorotrifluoroethane	ug/L	<21.5	200	200	154J	172J	77	86	12-175		30	
1,1-Dichloroethane	ug/L	<12.6	200	200	171	181	86	91	36-112	6	30	
1,1-Dichloroethene	ug/L	<18.6	200	200	160	166	80	83	10-112	4	30	
1,2,3-Trichlorobenzene	ug/L	<9.5	200	200	179	186	89	93	10-133	4	30	
1,2,4-Trichlorobenzene	ug/L	<12.7	200	200	183	182	91	91	10-135	1	30	
1,2,4-Trimethylbenzene	ug/L	<24.4	200	200	183	178	91	89	10-150	3	30	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1983297 1983298

Parameter	Units	30377174002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	<12.0	200	200	134	153	67	76	10-115	13	30	
1,2-Dibromoethane (EDB)	ug/L	<8.0	200	200	160	166	80	83	23-123	4	30	
1,2-Dichlorobenzene	ug/L	<5.9	200	200	188	182	94	91	10-144	3	30	
1,2-Dichloroethane	ug/L	<12.9	200	200	168	177	84	88	32-111	5	30	
1,2-Dichloropropane	ug/L	<7.2	200	200	171	176	85	88	25-124	3	30	
1,3,5-Trimethylbenzene	ug/L	<20.3	200	200	181	178	90	89	10-129	2	30	
1,3-Dichlorobenzene	ug/L	<6.5	200	200	187	179	93	90	10-149	4	30	
1,4-Dichlorobenzene	ug/L	<7.1	200	200	184	175	92	88	10-149	5	30	
2-Butanone (MEK)	ug/L	<9.1	200	200	145	171	72	86	10-153	17	30	
2-Hexanone	ug/L	<9.8	200	200	145	162	73	81	10-175	11	30	
4-Methyl-2-pentanone (MIBK)	ug/L	<11.2	200	200	149	162	74	81	10-147	9	30	
Acetone	ug/L	13500	2000	2000	13500	13800	0	17	10-175	3	30	ML
Benzene	ug/L	<8.7	200	200	172	181	86	91	29-120	6	30	
Bromodichloromethane	ug/L	<10.9	200	200	175	169	87	85	26-116	3	30	
Bromoform	ug/L	<6.6	200	200	149	153	74	77	10-110	3	30	
Bromomethane	ug/L	<18.6	200	200	180	191	90	96	10-122	6	30	1c
Carbon disulfide	ug/L	<14.2	200	200	142	155	71	77	10-110	9	30	
Carbon tetrachloride	ug/L	<17.2	200	200	159	166	79	83	27-118	5	30	
Chlorobenzene	ug/L	<7.8	200	200	182	179	91	89	10-139	2	30	
Chloroethane	ug/L	<20.9	200	200	150	175	75	88	10-138	15	30	
Chloroform	ug/L	<15.0	200	200	173	166	86	83	31-118	4	30	
Chloromethane	ug/L	<16.9	200	200	172	171	86	86	10-162	0	30	
cis-1,2-Dichloroethene	ug/L	<11.6	200	200	166	170	83	85	24-126	2	30	
cis-1,3-Dichloropropene	ug/L	<5.0	200	200	159	159	79	80	10-128	0	30	
Cyclohexane	ug/L	<18.8	200	200	168	174	84	87	13-175	4	30	
Dibromochloromethane	ug/L	<7.9	200	200	148	151	74	76	10-117	2	30	
Dichlorodifluoromethane	ug/L	<27.1	200	200	151	156	76	78	10-175	3	30	
Ethylbenzene	ug/L	<10.8	200	200	187	178	93	89	10-136	5	30	
Isopropylbenzene (Cumene)	ug/L	<11.6	200	200	196	194	98	97	10-145	1	30	
Methyl acetate	ug/L	<10.9	200	200	152J	193J	76	96	10-175		30	1c
Methyl-tert-butyl ether	ug/L	<6.7	200	200	157	165	78	83	30-110	5	30	
Methylcyclohexane	ug/L	<31.1	200	200	161	170	81	85	10-175	5	30	
Methylene Chloride	ug/L	157	200	200	287	284	65	63	10-131	1	30	
Styrene	ug/L	<14.4	200	200	188	178	94	89	10-118	5	30	
Tetrachloroethene	ug/L	<17.3	200	200	167	175	83	88	10-144	5	30	
Toluene	ug/L	<9.9	200	200	173	175	86	87	13-132	1	30	
trans-1,2-Dichloroethene	ug/L	<12.7	200	200	164	175	82	87	21-121	7	30	
trans-1,3-Dichloropropene	ug/L	<10.4	200	200	153	156	77	78	10-131	2	30	
Trichloroethene	ug/L	<14.7	200	200	178	180	89	90	10-170	1	30	
Trichlorofluoromethane	ug/L	<21.6	200	200	167	170	83	85	25-142	2	30	
Vinyl chloride	ug/L	<21.5	200	200	161	171	80	86	10-175	6	30	
Xylene (Total)	ug/L	<31.7	600	600	551	529	92	88	12-128	4	30	
1,2-Dichloroethane-d4 (S)	%.						105	105	70-130			

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1983297 1983298

Parameter	Units	30377174002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%.						98	99	70-130			
Dibromofluoromethane (S)	%.						102	100	70-130			
Toluene-d8 (S)	%.						99	98	70-130			

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 410076 | Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C | Analysis Description: 8260C MSV SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174010, 30377174012, 30377174014, 30377174016, 30377174018, 30377174020, 30377174022

METHOD BLANK: 1983280 | Matrix: Solid
Associated Lab Samples: 30377174010, 30377174012, 30377174014, 30377174016, 30377174018, 30377174020, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<15.1	50.0	15.1	08/19/20 16:09	
1,1,2,2-Tetrachloroethane	ug/L	<5.9	50.0	5.9	08/19/20 16:09	
1,1,2-Trichloroethane	ug/L	<9.9	50.0	9.9	08/19/20 16:09	
1,1,2-Trichlorotrifluoroethane	ug/L	<21.5	500	21.5	08/19/20 16:09	
1,1-Dichloroethane	ug/L	<12.6	50.0	12.6	08/19/20 16:09	
1,1-Dichloroethene	ug/L	<18.6	50.0	18.6	08/19/20 16:09	
1,2,3-Trichlorobenzene	ug/L	<9.5	50.0	9.5	08/19/20 16:09	
1,2,4-Trichlorobenzene	ug/L	<12.7	50.0	12.7	08/19/20 16:09	
1,2,4-Trimethylbenzene	ug/L	<24.4	50.0	24.4	08/19/20 16:09	
1,2-Dibromo-3-chloropropane	ug/L	<12.0	50.0	12.0	08/19/20 16:09	
1,2-Dibromoethane (EDB)	ug/L	<8.0	50.0	8.0	08/19/20 16:09	
1,2-Dichlorobenzene	ug/L	<5.9	50.0	5.9	08/19/20 16:09	
1,2-Dichloroethane	ug/L	<12.9	50.0	12.9	08/19/20 16:09	
1,2-Dichloropropane	ug/L	<7.2	50.0	7.2	08/19/20 16:09	
1,3,5-Trimethylbenzene	ug/L	<20.3	50.0	20.3	08/19/20 16:09	
1,3-Dichlorobenzene	ug/L	<6.5	50.0	6.5	08/19/20 16:09	
1,4-Dichlorobenzene	ug/L	<7.1	50.0	7.1	08/19/20 16:09	
2-Butanone (MEK)	ug/L	<9.1	100	9.1	08/19/20 16:09	
2-Hexanone	ug/L	<9.8	100	9.8	08/19/20 16:09	
4-Methyl-2-pentanone (MIBK)	ug/L	<11.2	100	11.2	08/19/20 16:09	
Acetone	ug/L	<31.8	100	31.8	08/19/20 16:09	
Benzene	ug/L	<8.7	50.0	8.7	08/19/20 16:09	
Bromodichloromethane	ug/L	<10.9	50.0	10.9	08/19/20 16:09	
Bromoform	ug/L	<6.6	50.0	6.6	08/19/20 16:09	
Bromomethane	ug/L	<18.6	50.0	18.6	08/19/20 16:09	
Carbon disulfide	ug/L	<14.2	50.0	14.2	08/19/20 16:09	
Carbon tetrachloride	ug/L	<17.2	50.0	17.2	08/19/20 16:09	
Chlorobenzene	ug/L	<7.8	50.0	7.8	08/19/20 16:09	
Chloroethane	ug/L	<20.9	50.0	20.9	08/19/20 16:09	
Chloroform	ug/L	<15.0	50.0	15.0	08/19/20 16:09	
Chloromethane	ug/L	<16.9	50.0	16.9	08/19/20 16:09	
cis-1,2-Dichloroethene	ug/L	<11.6	50.0	11.6	08/19/20 16:09	
cis-1,3-Dichloropropene	ug/L	<5.0	50.0	5.0	08/19/20 16:09	
Cyclohexane	ug/L	<18.8	100	18.8	08/19/20 16:09	
Dibromochloromethane	ug/L	<7.9	50.0	7.9	08/19/20 16:09	
Dichlorodifluoromethane	ug/L	<27.1	50.0	27.1	08/19/20 16:09	
Ethylbenzene	ug/L	<10.8	50.0	10.8	08/19/20 16:09	
Isopropylbenzene (Cumene)	ug/L	<11.6	50.0	11.6	08/19/20 16:09	
Methyl acetate	ug/L	<10.9	500	10.9	08/19/20 16:09	
Methyl-tert-butyl ether	ug/L	<6.7	50.0	6.7	08/19/20 16:09	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

METHOD BLANK: 1983280 Matrix: Solid
Associated Lab Samples: 30377174010, 30377174012, 30377174014, 30377174016, 30377174018, 30377174020, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methylcyclohexane	ug/L	<31.1	100	31.1	08/19/20 16:09	
Methylene Chloride	ug/L	<41.9	50.0	41.9	08/19/20 16:09	
Styrene	ug/L	<14.4	50.0	14.4	08/19/20 16:09	
Tetrachloroethene	ug/L	<17.3	50.0	17.3	08/19/20 16:09	
Toluene	ug/L	<9.9	50.0	9.9	08/19/20 16:09	
trans-1,2-Dichloroethene	ug/L	<12.7	50.0	12.7	08/19/20 16:09	
trans-1,3-Dichloropropene	ug/L	<10.4	50.0	10.4	08/19/20 16:09	
Trichloroethene	ug/L	<14.7	50.0	14.7	08/19/20 16:09	
Trichlorofluoromethane	ug/L	<21.6	50.0	21.6	08/19/20 16:09	
Vinyl chloride	ug/L	<21.5	50.0	21.5	08/19/20 16:09	
Xylene (Total)	ug/L	<31.7	150	31.7	08/19/20 16:09	
1,2-Dichloroethane-d4 (S)	%.	102	70-130		08/19/20 16:09	
4-Bromofluorobenzene (S)	%.	100	70-130		08/19/20 16:09	
Dibromofluoromethane (S)	%.	99	70-130		08/19/20 16:09	
Toluene-d8 (S)	%.	97	70-130		08/19/20 16:09	

LABORATORY CONTROL SAMPLE: 1984477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.7	109	62-129	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	91	60-108	
1,1,2-Trichloroethane	ug/L	20	18.2	91	61-114	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.7J	103	16-175	
1,1-Dichloroethane	ug/L	20	19.2	96	54-121	
1,1-Dichloroethene	ug/L	20	19.0	95	49-111	
1,2,3-Trichlorobenzene	ug/L	20	17.3	86	64-118	
1,2,4-Trichlorobenzene	ug/L	20	19.6	98	60-126	
1,2,4-Trimethylbenzene	ug/L	20	20.4	102	58-126	
1,2-Dibromo-3-chloropropane	ug/L	20	17.1	86	50-116	
1,2-Dibromoethane (EDB)	ug/L	20	17.7	88	60-115	
1,2-Dichlorobenzene	ug/L	20	20.0	100	70-130	
1,2-Dichloroethane	ug/L	20	18.3	92	62-112	
1,2-Dichloropropane	ug/L	20	19.1	95	59-112	
1,3,5-Trimethylbenzene	ug/L	20	20.9	104	56-124	
1,3-Dichlorobenzene	ug/L	20	20.4	102	63-122	
1,4-Dichlorobenzene	ug/L	20	20.0	100	63-117	
2-Butanone (MEK)	ug/L	20	17.0	85	52-111	
2-Hexanone	ug/L	20	16.6	83	51-113	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.2	86	55-112	
Acetone	ug/L	20	18.4	92	10-175	
Benzene	ug/L	20	20.0	100	51-123	
Bromodichloromethane	ug/L	20	19.6	98	59-113	
Bromoform	ug/L	20	17.3	86	50-95	
Bromomethane	ug/L	20	19.2	96	50-136	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

LABORATORY CONTROL SAMPLE: 1984477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon disulfide	ug/L	20	17.6	88	44-125	
Carbon tetrachloride	ug/L	20	20.1	100	53-115	
Chlorobenzene	ug/L	20	19.4	97	63-119	
Chloroethane	ug/L	20	23.4	117	13-154	
Chloroform	ug/L	20	19.3	97	57-115	
Chloromethane	ug/L	20	19.3	97	57-112	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	56-114	
cis-1,3-Dichloropropene	ug/L	20	19.1	96	59-108	
Cyclohexane	ug/L	20	20.8	104	58-113	
Dibromochloromethane	ug/L	20	17.6	88	59-102	
Dichlorodifluoromethane	ug/L	20	21.9	110	56-152	
Ethylbenzene	ug/L	20	20.2	101	61-123	
Isopropylbenzene (Cumene)	ug/L	20	23.1	116	62-136	
Methyl acetate	ug/L	20	17.3J	87	23-128	
Methyl-tert-butyl ether	ug/L	20	18.0	90	60-108	
Methylcyclohexane	ug/L	20	20.5	102	46-144	
Methylene Chloride	ug/L	20	17.2	86	20-159	
Styrene	ug/L	20	19.9	99	63-119	
Tetrachloroethene	ug/L	20	20.6	103	57-124	
Toluene	ug/L	20	18.8	94	56-120	
trans-1,2-Dichloroethene	ug/L	20	19.1	95	53-115	
trans-1,3-Dichloropropene	ug/L	20	18.2	91	60-107	
Trichloroethene	ug/L	20	19.9	99	61-115	
Trichlorofluoromethane	ug/L	20	20.1	100	67-127	
Vinyl chloride	ug/L	20	19.5	98	61-120	
Xylene (Total)	ug/L	60	60.4	101	57-125	
1,2-Dichloroethane-d4 (S)	%.			106	70-130	
4-Bromofluorobenzene (S)	%.			102	70-130	
Dibromofluoromethane (S)	%.			99	70-130	
Toluene-d8 (S)	%.			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1984475 1984476

Parameter	Units	30377174020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<15.1	200	200	218	201	109	100	35-127	8	30	
1,1,2,2-Tetrachloroethane	ug/L	<5.9	200	200	166	156	83	78	10-128	6	30	
1,1,2-Trichloroethane	ug/L	<9.9	200	200	176	164	88	82	16-132	7	30	
1,1,2-Trichlorotrifluoroethane	ug/L	<21.5	200	200	201J	186J	100	93	12-175		30	
1,1-Dichloroethane	ug/L	<12.6	200	200	200	184	100	92	36-112	8	30	
1,1-Dichloroethene	ug/L	<18.6	200	200	198	179	99	90	10-112	10	30	
1,2,3-Trichlorobenzene	ug/L	<9.5	200	200	158	147	79	74	10-133	7	30	
1,2,4-Trichlorobenzene	ug/L	<12.7	200	200	171	166	85	83	10-135	3	30	
1,2,4-Trimethylbenzene	ug/L	<24.4	200	200	200	186	100	93	10-150	7	30	

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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1984475 1984476

Parameter	Units	30377174020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	<12.0	200	200	126	120	63	60	10-115	5	30	
1,2-Dibromoethane (EDB)	ug/L	<8.0	200	200	160	151	80	76	23-123	6	30	
1,2-Dichlorobenzene	ug/L	<5.9	200	200	188	178	94	89	10-144	5	30	
1,2-Dichloroethane	ug/L	<12.9	200	200	177	163	89	82	32-111	8	30	
1,2-Dichloropropane	ug/L	<7.2	200	200	191	176	96	88	25-124	8	30	
1,3,5-Trimethylbenzene	ug/L	<20.3	200	200	198	188	99	94	10-129	5	30	
1,3-Dichlorobenzene	ug/L	<6.5	200	200	197	179	98	90	10-149	10	30	
1,4-Dichlorobenzene	ug/L	<7.1	200	200	191	174	96	87	10-149	9	30	
2-Butanone (MEK)	ug/L	<9.1	200	200	134	120	67	60	10-153	12	30	
2-Hexanone	ug/L	<9.8	200	200	131	124	65	62	10-175	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	<11.2	200	200	139	129	69	65	10-147	7	30	
Acetone	ug/L	844	200	200	996	990	76	73	10-175	1	30	
Benzene	ug/L	<8.7	200	200	205	187	102	94	29-120	9	30	
Bromodichloromethane	ug/L	<10.9	200	200	185	176	92	88	26-116	5	30	
Bromoform	ug/L	<6.6	200	200	142	137	71	68	10-110	4	30	
Bromomethane	ug/L	<18.6	200	200	198	185	99	93	10-122	6	30	
Carbon disulfide	ug/L	<14.2	200	200	164	158	82	79	10-110	4	30	
Carbon tetrachloride	ug/L	<17.2	200	200	190	181	95	91	27-118	5	30	
Chlorobenzene	ug/L	<7.8	200	200	194	179	97	90	10-139	8	30	
Chloroethane	ug/L	<20.9	200	200	215	183	108	91	10-138	16	30	
Chloroform	ug/L	<15.0	200	200	193	174	96	87	31-118	10	30	
Chloromethane	ug/L	<16.9	200	200	186	175	93	88	10-162	6	30	
cis-1,2-Dichloroethene	ug/L	<11.6	200	200	188	169	94	84	24-126	11	30	
cis-1,3-Dichloropropene	ug/L	<5.0	200	200	174	159	87	80	10-128	9	30	
Cyclohexane	ug/L	<18.8	200	200	194	189	97	95	13-175	3	30	
Dibromochloromethane	ug/L	<7.9	200	200	159	150	79	75	10-117	5	30	
Dichlorodifluoromethane	ug/L	<27.1	200	200	185	169	93	85	10-175	9	30	
Ethylbenzene	ug/L	<10.8	200	200	198	189	99	95	10-136	4	30	
Isopropylbenzene (Cumene)	ug/L	<11.6	200	200	228	211	114	105	10-145	8	30	
Methyl acetate	ug/L	<10.9	200	200	154J	143J	77	72	10-175		30	
Methyl-tert-butyl ether	ug/L	<6.7	200	200	165	153	83	76	30-110	8	30	
Methylcyclohexane	ug/L	<31.1	200	200	210	187	105	93	10-175	12	30	
Methylene Chloride	ug/L	<41.9	200	200	220	210	90	84	10-131	5	30	
Styrene	ug/L	<14.4	200	200	198	184	99	92	10-118	8	30	
Tetrachloroethene	ug/L	<17.3	200	200	209	188	105	94	10-144	11	30	
Toluene	ug/L	<9.9	200	200	191	179	95	89	13-132	6	30	
trans-1,2-Dichloroethene	ug/L	<12.7	200	200	196	177	98	89	21-121	10	30	
trans-1,3-Dichloropropene	ug/L	<10.4	200	200	165	155	82	77	10-131	6	30	
Trichloroethene	ug/L	<14.7	200	200	202	180	101	90	10-170	11	30	
Trichlorofluoromethane	ug/L	<21.6	200	200	201	180	100	90	25-142	11	30	
Vinyl chloride	ug/L	<21.5	200	200	193	178	97	89	10-175	8	30	
Xylene (Total)	ug/L	<31.7	600	600	604	558	101	93	12-128	8	30	
1,2-Dichloroethane-d4 (S)	%.						99	101	70-130			

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1984475 1984476

Parameter	Units	30377174020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%.						99	100	70-130			
Dibromofluoromethane (S)	%.						100	98	70-130			
Toluene-d8 (S)	%.						99	100	70-130			

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 410534
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30377174023

METHOD BLANK: 1986583
Matrix: Water
Associated Lab Samples: 30377174023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.38	1.0	0.38	08/21/20 13:06	M5
1,1,2,2-Tetrachloroethane	ug/L	<0.47	1.0	0.47	08/21/20 13:06	M5
1,1,2-Trichloroethane	ug/L	<0.33	1.0	0.33	08/21/20 13:06	M5
1,1,2-Trichlorotrifluoroethane	ug/L	<3.0	50.0	3.0	08/21/20 13:06	M5
1,1-Dichloroethane	ug/L	<0.24	1.0	0.24	08/21/20 13:06	M5
1,1-Dichloroethene	ug/L	<0.24	1.0	0.24	08/21/20 13:06	CH,M5
1,2,3-Trichlorobenzene	ug/L	<0.89	2.0	0.89	08/21/20 13:06	M5
1,2,4-Trichlorobenzene	ug/L	<0.73	1.0	0.73	08/21/20 13:06	M5
1,2,4-Trimethylbenzene	ug/L	<0.63	1.0	0.63	08/21/20 13:06	M5
1,2-Dibromo-3-chloropropane	ug/L	<0.55	5.0	0.55	08/21/20 13:06	M5
1,2-Dibromoethane (EDB)	ug/L	<0.44	1.0	0.44	08/21/20 13:06	M5
1,2-Dichlorobenzene	ug/L	<0.38	1.0	0.38	08/21/20 13:06	M5
1,2-Dichloroethane	ug/L	<0.33	1.0	0.33	08/21/20 13:06	M5
1,2-Dichloropropane	ug/L	<0.28	1.0	0.28	08/21/20 13:06	M5
1,3,5-Trimethylbenzene	ug/L	<0.45	1.0	0.45	08/21/20 13:06	M5
1,3-Dichlorobenzene	ug/L	<0.45	1.0	0.45	08/21/20 13:06	M5
1,4-Dichlorobenzene	ug/L	<0.48	1.0	0.48	08/21/20 13:06	M5
2-Butanone (MEK)	ug/L	<1.5	10.0	1.5	08/21/20 13:06	CH,M5
2-Hexanone	ug/L	<0.58	10.0	0.58	08/21/20 13:06	M5
4-Methyl-2-pentanone (MIBK)	ug/L	<0.42	10.0	0.42	08/21/20 13:06	CH,M5
Acetone	ug/L	<5.6	10.0	5.6	08/21/20 13:06	4c,CH,M5
Benzene	ug/L	<0.34	1.0	0.34	08/21/20 13:06	M5
Bromodichloromethane	ug/L	<0.35	1.0	0.35	08/21/20 13:06	M5
Bromoform	ug/L	<0.56	1.0	0.56	08/21/20 13:06	M5
Bromomethane	ug/L	<0.73	1.0	0.73	08/21/20 13:06	M5
Carbon disulfide	ug/L	<0.32	1.0	0.32	08/21/20 13:06	M5
Carbon tetrachloride	ug/L	<0.44	1.0	0.44	08/21/20 13:06	M5
Chlorobenzene	ug/L	<0.26	1.0	0.26	08/21/20 13:06	M5
Chloroethane	ug/L	<0.64	1.0	0.64	08/21/20 13:06	M5
Chloroform	ug/L	<0.39	1.0	0.39	08/21/20 13:06	M5
Chloromethane	ug/L	<0.40	1.0	0.40	08/21/20 13:06	CH,M5
cis-1,2-Dichloroethene	ug/L	<0.38	1.0	0.38	08/21/20 13:06	M5
cis-1,3-Dichloropropene	ug/L	<0.29	1.0	0.29	08/21/20 13:06	M5
Cyclohexane	ug/L	<0.33	10.0	0.33	08/21/20 13:06	M5
Dibromochloromethane	ug/L	<0.43	1.0	0.43	08/21/20 13:06	M5
Dichlorodifluoromethane	ug/L	<0.63	1.0	0.63	08/21/20 13:06	IH,M5
Ethylbenzene	ug/L	<0.40	1.0	0.40	08/21/20 13:06	M5
Isopropylbenzene (Cumene)	ug/L	<0.47	1.0	0.47	08/21/20 13:06	M5
Methyl acetate	ug/L	<0.55	5.0	0.55	08/21/20 13:06	M5
Methyl-tert-butyl ether	ug/L	<0.25	1.0	0.25	08/21/20 13:06	M5

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

METHOD BLANK: 1986583 Matrix: Water
Associated Lab Samples: 30377174023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methylcyclohexane	ug/L	<2.4	10.0	2.4	08/21/20 13:06	M5
Methylene Chloride	ug/L	<0.64	1.0	0.64	08/21/20 13:06	CH,M5
Styrene	ug/L	<0.33	1.0	0.33	08/21/20 13:06	M5
Tetrachloroethene	ug/L	<0.39	1.0	0.39	08/21/20 13:06	M5
Toluene	ug/L	<0.32	1.0	0.32	08/21/20 13:06	M5
trans-1,2-Dichloroethene	ug/L	<0.28	1.0	0.28	08/21/20 13:06	CH,M5
trans-1,3-Dichloropropene	ug/L	<0.32	1.0	0.32	08/21/20 13:06	M5
Trichloroethene	ug/L	<0.29	1.0	0.29	08/21/20 13:06	M5
Trichlorofluoromethane	ug/L	<0.51	1.0	0.51	08/21/20 13:06	M5
Vinyl chloride	ug/L	<0.29	1.0	0.29	08/21/20 13:06	M5
Xylene (Total)	ug/L	<1.4	3.0	1.4	08/21/20 13:06	M5
1,2-Dichloroethane-d4 (S)	%.	113	70-130		08/21/20 13:06	M5
4-Bromofluorobenzene (S)	%.	94	70-130		08/21/20 13:06	M5
Dibromofluoromethane (S)	%.	104	70-130		08/21/20 13:06	M5
Toluene-d8 (S)	%.	96	70-130		08/21/20 13:06	M5

LABORATORY CONTROL SAMPLE: 1986584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	70-130	M5
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	70-130	M5
1,1,2-Trichloroethane	ug/L	20	18.6	93	70-130	M5
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.5J	103	61-138	M5
1,1-Dichloroethane	ug/L	20	20.0	100	70-130	M5
1,1-Dichloroethene	ug/L	20	18.8	94	70-130	CH,M5
1,2,3-Trichlorobenzene	ug/L	20	18.8	94	70-130	M5
1,2,4-Trichlorobenzene	ug/L	20	19.5	98	70-130	M5
1,2,4-Trimethylbenzene	ug/L	20	18.8	94	70-130	M5
1,2-Dibromo-3-chloropropane	ug/L	20	15.1	75	59-122	M5
1,2-Dibromoethane (EDB)	ug/L	20	16.7	83	70-130	M5
1,2-Dichlorobenzene	ug/L	20	19.5	97	70-130	M5
1,2-Dichloroethane	ug/L	20	19.1	96	70-130	M5
1,2-Dichloropropane	ug/L	20	20.6	103	70-130	M5
1,3,5-Trimethylbenzene	ug/L	20	18.9	95	70-130	M5
1,3-Dichlorobenzene	ug/L	20	19.9	99	70-130	M5
1,4-Dichlorobenzene	ug/L	20	19.7	99	70-130	M5
2-Butanone (MEK)	ug/L	20	26.1	131	70-130	CH,L1,M5
2-Hexanone	ug/L	20	23.8	119	70-130	M5
4-Methyl-2-pentanone (MIBK)	ug/L	20	24.5	123	70-130	CH,M5
Acetone	ug/L	20	25.6	128	67-173	4c,CH,M5
Benzene	ug/L	20	18.3	91	70-130	M5
Bromodichloromethane	ug/L	20	16.2	81	70-130	M5
Bromoform	ug/L	20	11.2	56	63-119	L2,M5
Bromomethane	ug/L	20	22.2	111	24-159	M5

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(724)850-5600

QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

LABORATORY CONTROL SAMPLE: 1986584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon disulfide	ug/L	20	19.1	96	57-132	M5
Carbon tetrachloride	ug/L	20	14.6	73	70-130	M5
Chlorobenzene	ug/L	20	18.6	93	70-130	M5
Chloroethane	ug/L	20	26.9	135	62-145	M5
Chloroform	ug/L	20	17.6	88	70-130	M5
Chloromethane	ug/L	20	32.3	161	66-140	CH,L1,M5
cis-1,2-Dichloroethene	ug/L	20	19.0	95	70-130	M5
cis-1,3-Dichloropropene	ug/L	20	16.3	82	70-130	M5
Cyclohexane	ug/L	20	25.8	129	63-128	L1,M5
Dibromochloromethane	ug/L	20	14.1	70	70-130	M5
Dichlorodifluoromethane	ug/L	20	29.8	149	62-162	IH,M5
Ethylbenzene	ug/L	20	19.7	99	70-130	M5
Isopropylbenzene (Cumene)	ug/L	20	20.8	104	70-130	M5
Methyl acetate	ug/L	20	20.0	100	37-158	M5
Methyl-tert-butyl ether	ug/L	20	19.0	95	70-130	M5
Methylcyclohexane	ug/L	20	20.9	105	52-143	M5
Methylene Chloride	ug/L	20	21.8	109	70-130	CH,M5
Styrene	ug/L	20	19.6	98	70-130	M5
Tetrachloroethene	ug/L	20	18.9	94	70-130	M5
Toluene	ug/L	20	18.1	91	70-130	M5
trans-1,2-Dichloroethene	ug/L	20	19.8	99	70-130	CH,M5
trans-1,3-Dichloropropene	ug/L	20	16.4	82	70-130	M5
Trichloroethene	ug/L	20	18.5	92	70-130	M5
Trichlorofluoromethane	ug/L	20	22.8	114	70-130	M5
Vinyl chloride	ug/L	20	26.0	130	70-130	M5
Xylene (Total)	ug/L	60	57.4	96	70-130	M5
1,2-Dichloroethane-d4 (S)	%.			107	70-130	M5
4-Bromofluorobenzene (S)	%.			99	70-130	M5
Dibromofluoromethane (S)	%.			97	70-130	M5
Toluene-d8 (S)	%.			97	70-130	M5

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(724)850-5600

QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 409471
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30377174001, 30377174002, 30377174003, 30377174004, 30377174005, 30377174006, 30377174007, 30377174008, 30377174009, 30377174010, 30377174011, 30377174012, 30377174013, 30377174014, 30377174015, 30377174016, 30377174017, 30377174018, 30377174019, 30377174020

SAMPLE DUPLICATE: 1981525

Parameter	Units	30377174001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.7	15.4	5	20	

SAMPLE DUPLICATE: 1981526

Parameter	Units	30377174002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.4	19.4	5	20	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 409637
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30377174021, 30377174022

SAMPLE DUPLICATE: 1982582

Parameter	Units	30376623001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.2	13.0	2	20	

SAMPLE DUPLICATE: 1982583

Parameter	Units	30376953001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.6	9.9	14	20	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 1528132 | Analysis Method: SM 2540G
QC Batch Method: SM 2540 G | Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 30377174001, 30377174002, 30377174003, 30377174004, 30377174005

METHOD BLANK: R3561767-1 | Matrix: Solid
Associated Lab Samples: 30377174001, 30377174002, 30377174003, 30377174004, 30377174005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	0.00100			08/19/20 14:55	

LABORATORY CONTROL SAMPLE: R3561767-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3561767-3

Parameter	Units	L1250299-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	83.1	85.2	2.49	10	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 1528134
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 30377174006, 30377174007, 30377174008, 30377174009, 30377174010, 30377174011, 30377174012, 30377174013, 30377174014, 30377174015

METHOD BLANK: R3561770-1
Matrix: Solid
Associated Lab Samples: 30377174006, 30377174007, 30377174008, 30377174009, 30377174010, 30377174011, 30377174012, 30377174013, 30377174014, 30377174015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	0.00100			08/19/20 15:05	

LABORATORY CONTROL SAMPLE: R3561770-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3561770-3

Parameter	Units	30377174013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	87.4	85.2	2.49	10	

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QUALITY CONTROL DATA

Project: Speedway ESA VRP
Pace Project No.: 30377174

QC Batch: 1528135
QC Batch Method: SM 2540 G
Analysis Method: SM 2540G
Analysis Description: Total Solids 2540 G-2011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 30377174016, 30377174017, 30377174018, 30377174019, 30377174020, 30377174021, 30377174022

METHOD BLANK: R3561765-1
Matrix: Solid
Associated Lab Samples: 30377174016, 30377174017, 30377174018, 30377174019, 30377174020, 30377174021, 30377174022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	ND			08/19/20 13:40	

LABORATORY CONTROL SAMPLE: R3561765-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	100	85.0-115	

SAMPLE DUPLICATE: R3561765-3

Parameter	Units	L1250696-01 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	20.8	20.6	0.992	10	

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QUALIFIERS

Project: Speedway ESA VRP
Pace Project No.: 30377174

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 410079

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 410219

[1] The CCB for Cd is greater than the MDL for 30377174-010 for SPLP metals.

Batch: 410411

[1] The CCB for Cd is greater than the MDL for 30377174-012,014,016, and 020 for SPLP metals.

Batch: 410534

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	RF below method recommended limit.
2c	The CCB for Cd is greater than the MDL for 30377174-010 for SPLP metals.
3c	The CCB for Cd is greater than the MDL for 30377174-012,014,016, and 020 for SPLP metals.
4c	The minimum RF requirement for this compound was not met.
B	Analyte was detected in the associated method blank.
C7	Analyte is a possible laboratory contaminant (not present in method blank).
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

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QUALIFIERS

Project: Speedway ESA VRP
Pace Project No.: 30377174

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Speedway ESA VRP
Pace Project No.: 30377174

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30377174001	**SB01 (0-2)**	EPA 3050B	409662	EPA 6010D	409752
30377174002	**SB01 (4-8)**	EPA 3050B	409662	EPA 6010D	409752
30377174003	**SB02 (0-2)**	EPA 3050B	409662	EPA 6010D	409752
30377174004	**SB02 (0-2)-FD**	EPA 3050B	409662	EPA 6010D	409752
30377174005	**SB02 (14-15)**	EPA 3050B	409662	EPA 6010D	409752
30377174006	**SB07 (0-2)**	EPA 3050B	409662	EPA 6010D	409752
30377174007	**SB07 (20-24)**	EPA 3050B	409662	EPA 6010D	409752
30377174008	**SB07 (20-24)-FD**	EPA 3050B	409662	EPA 6010D	409752
30377174009	**SB10 (0-2)**	EPA 3050B	409662	EPA 6010D	409752
30377174010	**SB10 (14-16)**	EPA 3050B	409662	EPA 6010D	409752
30377174011	**SB09 (0-2)**	EPA 3050B	409662	EPA 6010D	409752
30377174012	**SB09 (16-20)**	EPA 3050B	409662	EPA 6010D	409752
30377174013	**SB08 (0-2)**	EPA 3050B	409662	EPA 6010D	409752
30377174014	**SB08 (8-12)**	EPA 3050B	409662	EPA 6010D	409752
30377174015	**SB03 (0-2)**	EPA 3050B	409662	EPA 6010D	409752
30377174016	**SB03 (12-15)**	EPA 3050B	409662	EPA 6010D	409752
30377174017	**SB06 (0-2)**	EPA 3050B	409662	EPA 6010D	409752
30377174018	**SB06 (16-20)**	EPA 3050B	409662	EPA 6010D	409752
30377174019	**SB04 (0-4)**	EPA 3050B	409662	EPA 6010D	409752
30377174020	**SB04 (20-24)**	EPA 3050B	409663	EPA 6010D	409753
30377174021	**SB05 (0-2)**	EPA 3050B	409663	EPA 6010D	409753
30377174022	**SB05 (16-20)**	EPA 3050B	409663	EPA 6010D	409753
30377174002	**SB01 (4-8)**	EPA 3005A	410083	EPA 6010D	410219
30377174005	**SB02 (14-15)**	EPA 3005A	410083	EPA 6010D	410219
30377174007	**SB07 (20-24)**	EPA 3005A	410083	EPA 6010D	410219
30377174008	**SB07 (20-24)-FD**	EPA 3005A	410083	EPA 6010D	410219
30377174010	**SB10 (14-16)**	EPA 3005A	410083	EPA 6010D	410219
30377174012	**SB09 (16-20)**	EPA 3005A	410319	EPA 6010D	410411
30377174014	**SB08 (8-12)**	EPA 3005A	410319	EPA 6010D	410411
30377174016	**SB03 (12-15)**	EPA 3005A	410319	EPA 6010D	410411
30377174018	**SB06 (16-20)**	EPA 3005A	410319	EPA 6010D	410411
30377174020	**SB04 (20-24)**	EPA 3005A	410319	EPA 6010D	410411
30377174022	**SB05 (16-20)**	EPA 3005A	410319	EPA 6010D	410411
30377174002	**SB01 (4-8)**	EPA 7470A	410112	EPA 7470A	410173
30377174005	**SB02 (14-15)**	EPA 7470A	410112	EPA 7470A	410173
30377174007	**SB07 (20-24)**	EPA 7470A	410112	EPA 7470A	410173
30377174008	**SB07 (20-24)-FD**	EPA 7470A	410112	EPA 7470A	410173
30377174010	**SB10 (14-16)**	EPA 7470A	410112	EPA 7470A	410173
30377174012	**SB09 (16-20)**	EPA 7470A	410342	EPA 7470A	410398
30377174014	**SB08 (8-12)**	EPA 7470A	410342	EPA 7470A	410398
30377174016	**SB03 (12-15)**	EPA 7470A	410342	EPA 7470A	410398
30377174018	**SB06 (16-20)**	EPA 7470A	410342	EPA 7470A	410398
30377174020	**SB04 (20-24)**	EPA 7470A	410342	EPA 7470A	410398
30377174022	**SB05 (16-20)**	EPA 7470A	410342	EPA 7470A	410398
30377174001	**SB01 (0-2)**	EPA 7471A	409685	EPA 7471A	409760
30377174002	**SB01 (4-8)**	EPA 7471A	409685	EPA 7471A	409760

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Speedway ESA VRP
Pace Project No.: 30377174

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30377174003	**SB02 (0-2)**	EPA 7471A	409685	EPA 7471A	409760
30377174004	**SB02 (0-2)-FD**	EPA 7471A	409685	EPA 7471A	409760
30377174005	**SB02 (14-15)**	EPA 7471A	409685	EPA 7471A	409760
30377174006	**SB07 (0-2)**	EPA 7471A	409685	EPA 7471A	409760
30377174007	**SB07 (20-24)**	EPA 7471A	409685	EPA 7471A	409760
30377174008	**SB07 (20-24)-FD**	EPA 7471A	409685	EPA 7471A	409760
30377174009	**SB10 (0-2)**	EPA 7471A	409685	EPA 7471A	409760
30377174010	**SB10 (14-16)**	EPA 7471A	409685	EPA 7471A	409760
30377174011	**SB09 (0-2)**	EPA 7471A	409685	EPA 7471A	409760
30377174012	**SB09 (16-20)**	EPA 7471A	409685	EPA 7471A	409760
30377174013	**SB08 (0-2)**	EPA 7471A	409685	EPA 7471A	409760
30377174014	**SB08 (8-12)**	EPA 7471A	409685	EPA 7471A	409760
30377174015	**SB03 (0-2)**	EPA 7471A	409685	EPA 7471A	409760
30377174016	**SB03 (12-15)**	EPA 7471A	409685	EPA 7471A	409760
30377174017	**SB06 (0-2)**	EPA 7471A	409685	EPA 7471A	409760
30377174018	**SB06 (16-20)**	EPA 7471A	409685	EPA 7471A	409760
30377174019	**SB04 (0-4)**	EPA 7471A	409685	EPA 7471A	409760
30377174020	**SB04 (20-24)**	EPA 7471A	409686	EPA 7471A	409761
30377174021	**SB05 (0-2)**	EPA 7471A	409686	EPA 7471A	409761
30377174022	**SB05 (16-20)**	EPA 7471A	409686	EPA 7471A	409761
30377174001	**SB01 (0-2)**	3546	1527414	EPA 8270E by SIM	1527414
30377174002	**SB01 (4-8)**	3546	1527414	EPA 8270E by SIM	1527414
30377174003	**SB02 (0-2)**	3546	1527414	EPA 8270E by SIM	1527414
30377174004	**SB02 (0-2)-FD**	3546	1527414	EPA 8270E by SIM	1527414
30377174005	**SB02 (14-15)**	3546	1527414	EPA 8270E by SIM	1527414
30377174006	**SB07 (0-2)**	3546	1527414	EPA 8270E by SIM	1527414
30377174007	**SB07 (20-24)**	3546	1527414	EPA 8270E by SIM	1527414
30377174008	**SB07 (20-24)-FD**	3546	1527414	EPA 8270E by SIM	1527414
30377174009	**SB10 (0-2)**	3546	1527414	EPA 8270E by SIM	1527414
30377174010	**SB10 (14-16)**	3546	1527414	EPA 8270E by SIM	1527414
30377174011	**SB09 (0-2)**	3546	1527415	EPA 8270E by SIM	1527415
30377174012	**SB09 (16-20)**	3546	1527415	EPA 8270E by SIM	1527415
30377174013	**SB08 (0-2)**	3546	1527415	EPA 8270E by SIM	1527415
30377174014	**SB08 (8-12)**	3546	1527938	EPA 8270E by SIM	1527938
30377174015	**SB03 (0-2)**	3546	1527938	EPA 8270E by SIM	1527938
30377174016	**SB03 (12-15)**	3546	1527938	EPA 8270E by SIM	1527938
30377174017	**SB06 (0-2)**	3546	1527938	EPA 8270E by SIM	1527938
30377174018	**SB06 (16-20)**	3546	1527938	EPA 8270E by SIM	1527938
30377174019	**SB04 (0-4)**	3546	1527938	EPA 8270E by SIM	1527938
30377174020	**SB04 (20-24)**	3546	1527938	EPA 8270E by SIM	1527938
30377174021	**SB05 (0-2)**	3546	1527938	EPA 8270E by SIM	1527938
30377174022	**SB05 (16-20)**	3546	1527938	EPA 8270E by SIM	1527938
30377174002	**SB01 (4-8)**	EPA 5035A	410079	EPA 8260C	410097
30377174005	**SB02 (14-15)**	EPA 5035A	410079	EPA 8260C	410097
30377174007	**SB07 (20-24)**	EPA 5035A	410079	EPA 8260C	410097
30377174008	**SB07 (20-24)-FD**	EPA 5035A	410079	EPA 8260C	410097

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Speedway ESA VRP
Pace Project No.: 30377174

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30377174010	**SB10 (14-16)**	EPA 5035A	410079	EPA 8260C	410097
30377174012	**SB09 (16-20)**	EPA 5035A	410079	EPA 8260C	410097
30377174014	**SB08 (8-12)**	EPA 5035A	410079	EPA 8260C	410097
30377174016	**SB03 (12-15)**	EPA 5035A	410079	EPA 8260C	410097
30377174018	**SB06 (16-20)**	EPA 5035A	410307	EPA 8260C	410312
30377174020	**SB04 (20-24)**	EPA 5035A	410307	EPA 8260C	410312
30377174022	**SB05 (16-20)**	EPA 5035A	410307	EPA 8260C	410312
30377174002	**SB01 (4-8)**	EPA 8260C	409844		
30377174005	**SB02 (14-15)**	EPA 8260C	409844		
30377174007	**SB07 (20-24)**	EPA 8260C	409844		
30377174008	**SB07 (20-24)-FD**	EPA 8260C	409844		
30377174010	**SB10 (14-16)**	EPA 8260C	410076		
30377174012	**SB09 (16-20)**	EPA 8260C	410076		
30377174014	**SB08 (8-12)**	EPA 8260C	410076		
30377174016	**SB03 (12-15)**	EPA 8260C	410076		
30377174018	**SB06 (16-20)**	EPA 8260C	410076		
30377174020	**SB04 (20-24)**	EPA 8260C	410076		
30377174022	**SB05 (16-20)**	EPA 8260C	410076		
30377174023	**Trip Blank**	EPA 8260C	410534		
30377174001	**SB01 (0-2)**	ASTM D2974-87	409471		
30377174002	**SB01 (4-8)**	ASTM D2974-87	409471		
30377174003	**SB02 (0-2)**	ASTM D2974-87	409471		
30377174004	**SB02 (0-2)-FD**	ASTM D2974-87	409471		
30377174005	**SB02 (14-15)**	ASTM D2974-87	409471		
30377174006	**SB07 (0-2)**	ASTM D2974-87	409471		
30377174007	**SB07 (20-24)**	ASTM D2974-87	409471		
30377174008	**SB07 (20-24)-FD**	ASTM D2974-87	409471		
30377174009	**SB10 (0-2)**	ASTM D2974-87	409471		
30377174010	**SB10 (14-16)**	ASTM D2974-87	409471		
30377174011	**SB09 (0-2)**	ASTM D2974-87	409471		
30377174012	**SB09 (16-20)**	ASTM D2974-87	409471		
30377174013	**SB08 (0-2)**	ASTM D2974-87	409471		
30377174014	**SB08 (8-12)**	ASTM D2974-87	409471		
30377174015	**SB03 (0-2)**	ASTM D2974-87	409471		
30377174016	**SB03 (12-15)**	ASTM D2974-87	409471		
30377174017	**SB06 (0-2)**	ASTM D2974-87	409471		
30377174018	**SB06 (16-20)**	ASTM D2974-87	409471		
30377174019	**SB04 (0-4)**	ASTM D2974-87	409471		
30377174020	**SB04 (20-24)**	ASTM D2974-87	409471		
30377174021	**SB05 (0-2)**	ASTM D2974-87	409637		
30377174022	**SB05 (16-20)**	ASTM D2974-87	409637		
30377174001	**SB01 (0-2)**	SM 2540 G	1528132	SM 2540G	1528132
30377174002	**SB01 (4-8)**	SM 2540 G	1528132	SM 2540G	1528132
30377174003	**SB02 (0-2)**	SM 2540 G	1528132	SM 2540G	1528132
30377174004	**SB02 (0-2)-FD**	SM 2540 G	1528132	SM 2540G	1528132

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Speedway ESA VRP
Pace Project No.: 30377174

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30377174005	**SB02 (14-15)**	SM 2540 G	1528132	SM 2540G	1528132
30377174006	**SB07 (0-2)**	SM 2540 G	1528134	SM 2540G	1528134
30377174007	**SB07 (20-24)**	SM 2540 G	1528134	SM 2540G	1528134
30377174008	**SB07 (20-24)-FD**	SM 2540 G	1528134	SM 2540G	1528134
30377174009	**SB10 (0-2)**	SM 2540 G	1528134	SM 2540G	1528134
30377174010	**SB10 (14-16)**	SM 2540 G	1528134	SM 2540G	1528134
30377174011	**SB09 (0-2)**	SM 2540 G	1528134	SM 2540G	1528134
30377174012	**SB09 (16-20)**	SM 2540 G	1528134	SM 2540G	1528134
30377174013	**SB08 (0-2)**	SM 2540 G	1528134	SM 2540G	1528134
30377174014	**SB08 (8-12)**	SM 2540 G	1528134	SM 2540G	1528134
30377174015	**SB03 (0-2)**	SM 2540 G	1528134	SM 2540G	1528134
30377174016	**SB03 (12-15)**	SM 2540 G	1528135	SM 2540G	1528135
30377174017	**SB06 (0-2)**	SM 2540 G	1528135	SM 2540G	1528135
30377174018	**SB06 (16-20)**	SM 2540 G	1528135	SM 2540G	1528135
30377174019	**SB04 (0-4)**	SM 2540 G	1528135	SM 2540G	1528135
30377174020	**SB04 (20-24)**	SM 2540 G	1528135	SM 2540G	1528135
30377174021	**SB05 (0-2)**	SM 2540 G	1528135	SM 2540G	1528135
30377174022	**SB05 (16-20)**	SM 2540 G	1528135	SM 2540G	1528135

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

WO# : 30377174

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30377174

Document
ist be completed accurately.

Page : 1 Of 2

Section A
Required Client Information:

Company:	ENVIRONMENTAL STANDARDS, INC.
Address:	1140 Valley Forge Road
	Valley Forge, PA 19482
Email:	lmistick@envstd.com
Phone:	610-935-5577 Fax:
Requested Due Date:	Standard TAT

Section B
Required Project Information:

Report To:	Leah Mistick (Lmistick@envstd.com)
Copy To:	Lydia Work (Lwork@envstd.com)
Purchase Order #:	
Project Name:	Speedway ESA VRP
Project #:	20198730

Invoice Information:

Attention:	Leah Mistick
Company Name:	ENVIRONMENTAL STANDARDS, INC.
Address:	1140 Valley Forge Road
Pace Quote:	
Pace Project Manager:	taylor.sullivan@pacelabs.com,
Pace Profile #:	4066-1

Regulatory Agency
State / Location
WV

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 VOCs	8270 PAH By SIM	6010 Metals 7471	SPLP (VOCs)	SPLP (PAH SIM)	SPLP (metals)	Residual Chlorine (Y/N)		
1	SB01 (0-2)	SL	G	8/11/20	0905				2											X	X					001	001
2	SB01 (4-8)	SL	G	8/11/20	0930				7										X	X	X	X	X	X		002, 003	002
3	SB02 (0-2)				1020				2											X	X					004	003
4	SB02 (0-2)-FD				1020				2											X	X					005	004
5	SB02 (14-15)				1050				7										X	X	X	X	X	X		006, 007	005
6	SB07 (0-2)				1125				2											X	X					008	006
7	SB07 (20-24)				1205				7										X	X	X	X	X	X		009, 010	007
8	SB07 (20-24)-FD				1205				7										X	X	X	X	X	X		011, 012	008
9	SB10 (0-2)				1330				2											X	X					013	009
10	SB10 (14-16)				1350				7										X	X	X	X	X	X		014, 015	010
11	SB09 (0-2)				1400				2											X	X					016	011
12	SB09 (16-20)				1415				7										X	X	X	X	X	X		017, 018	012 MJS 8-12-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS (cf -0.3) TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Level 4 data package for all samples; report to MDLs & correct for moisture	[signature] ESI	8-12-20	0945	[signature]	8/12/20	0945	3.2	Y	N	Y
	[signature] PACE	8/12/20	1300	[signature] PACE	8/12/20	13:00				
	[signature] PACE	8/12/20	14:35	Nicole Rund	8/12/2020	1435	6.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: LEAH MISTICK

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/11/20

30377174

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

Section A — Required Client Information:

Company:	ENVIRONMENTAL STANDARDS, INC.
Address:	1140 Valley Forge Road
	Valley Forge, PA 19482
Email:	lmistick@envstd.com
Phone:	610-935-5577 Fax:
Requested Due Date:	Standard TAT

Section B — Required Project Information:

Report To:	Leah Mistick (Lmistick@envstd.com)
Copy To:	Lydia Work (Lwork@envstd.com)
Purchase Order #:	
Project Name:	Speedway ESA VRP
Project #:	20198730

Section C — Invoice Information:

Attention:	Leah Mistick
Company Name:	ENVIRONMENTAL STANDARDS, INC.
Address:	1140 Valley Forge Road
Pace Quote:	
Pace Project Manager:	taylor.sullivan@pacelabs.com,
Pace Profile #:	4066-1

Regulatory Agency	State / Location
	WV

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 VOCs	8270 PAH by Sim	6010 Metals & 7471	SPLP (VOCs)	SPLP (PAHs)	SPLP (metals)	Residual Chlorine (Y/N)	
1	SB08 (0-2)	SL	G	8.11.20			1440		2											X	X					MS/MSD ~~014~~ 013
2	SB08 (8-12)						1450		7										X	X	X	X	X	X		020,021 014
3	SB03 (0-2)						1510		2											X	X					022 015
4	SB03 (12-15)						1525		7										X	X	X	X	X	X		023,024 016
5	SB06 (0-2)						1545		2											X	X					025 017
6	SB06 (16-20)						1605		7										X	X	X	X	X	X		026,027 018
7	SB04 (0-~~2~~4)						1635		2											X	X					028 019
8	SB04 (20-24)						1700		7										X	X	X	X	X	X		MS/MSD ~~024,030~~ 020
9	SB05 (0-2)						1715		2											X	X					031 021
10	SB05 (16-20)						1735		7										X	X	X	X	X	X		032 022
11																										
12	trip Blank																		X							033 023 MS 8-12-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS (cf=8.5)			
Level 4 data	ESI	8-12-20	0945		8/12/20	0945	3.2	Y	N	Y
packages for all		8/12/20	1700	[illegible] PACE	8/12/20	13:00				
samples; report to MDLs	[illegible] PACE	8/12/20	14:35	[illegible]	8/12/2020	1435	6.0	Y	N	Y
Correct for % moisture										

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leah Mistick

SIGNATURE of SAMPLER: [signature] DATE Signed: 8-11-20

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Envlro. Stand. Project # # 30377174

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Label MJS
LIMS Login MJS

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 5.7 °C Correction Factor: +0.3 °C Final Temp: 6.0 °C

Temp should be above freezing to 6°C

pH paper Lot# NA

Date and Initials of person examining contents: NMR 8/12/2020

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4. NMR 8/12/2020
Sample Labels match COC: -Includes date/time/ID Matrix: SL		✓		5. ID on Sample ~~is~~ 005 is SB02 & ID on Sample 008
Samples Arrived within Hold Time:	✓			6. is SB07(20-25)-FD
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed NMR Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:	✓	X		18. NMR 8/12/2020
Trip Blank Custody Seals Present	✓			
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

J:\QAQC\Master\Document Management\Sample Mgt\Sample Condition Upon Receipt Pittsburgh (C056-9 5April2019)

L1250694

Internal Transfer Chain of Custody

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☐ Samples Pre-Logged into eCOC.

State Of Origin: WV
Cert. Needed: ☒ Yes ☐ No

Workorder: 30377174 **Workorder Name:** Speedway ESA VRP

Owner Received Date: 8/12/2020 **Results Requested By:** 8/21/2020

Report To

Megan J. Smetanka
Pace Analytical Pittsburgh
1638 Roseytown Road
Suites 2,3,4
Greensburg, PA 15601
Phone (724)850-5600

Subcontract To

Pace Analytical National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615)758-5858

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: PAH	SPLP PAH											LAB USE ONLY
1	SB01 (0-2)	PS	8/11/2020 09:05	30377174001	Solid	1						X												-01
2	SB01 (4-8)	PS	8/11/2020 09:30	30377174002	Solid	1						X	X											-02,03
3	SB02 (0-2)	PS	8/11/2020 10:20	30377174003	Solid	1						X												-04
4	SB02 (0-2)-FD	PS	8/11/2020 10:20	30377174004	Solid	1						X												-05
5	SB02 (14-15)	PS	8/11/2020 10:50	30377174005	Solid	1						X	X											-06,07
6	SB07 (0-2)	PS	8/11/2020 11:25	30377174006	Solid	1						X												-08
7	SB07 (20-24)	PS	8/11/2020 12:05	30377174007	Solid	1						X	X											-09,10
8	SB07 (20-24)-FD	PS	8/11/2020 12:05	30377174008	Solid	1						X	X											-11,12
9	SB10 (0-2)	PS	8/11/2020 13:30	30377174009	Solid	1						X												-13
10	SB10 (14-16)	PS	8/11/2020 13:50	30377174010	Solid	1						X	X											-14,15
11	SB09 (0-2)	PS	8/11/2020 14:00	30377174011	Solid	1						X												-16
12	SB09 (16-20)	PS	8/11/2020 14:15	30377174012	Solid	1						X	X											-17,18
13	SB08 (0-2)	RQS	8/11/2020 14:40	30377174013	Solid	1						X												-19
14	SB08 (8-12)	PS	8/11/2020 14:50	30377174014	Solid	1						X	X											-20,21
15	SB03 (0-2)	PS	8/11/2020 15:10	30377174015	Solid	1						X												-22
16	SB03 (12-15)	PS	8/11/2020 15:25	30377174016	Solid	1						X	X											-23,24
17	SB06 (0-2)	PS	8/11/2020 15:45	30377174017	Solid	1						X												-25
18	SB06 (16-20)	PS	8/11/2020 16:05	30377174018	Solid	1						X	X											-26,27
19	SB04 (0-4)	PS	8/11/2020 16:35	30377174019	Solid	1						X												-28

L1250694

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: WV
Cert. Needed: ☒ Yes ☐ No

Workorder: 30377174 **Workorder Name:** Speedway ESA VRP **Owner Received Date:** 8/12/2020 **Results Requested By:** 8/21/2020

Report To	Subcontract To
Megan J. Smetanka Pace Analytical Pittsburgh 1638 Roseytown Road Suites 2,3,4 Greensburg, PA 15601 Phone (724)850-5600	Pace Analytical National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615)758-5858

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	PAH	SPLP PAH	LAB USE ONLY
20	SB04 (20-24)	RQS	8/11/2020 17:00	30377174020	Solid	1	X	X	-29,30
21	SB05 (0-2)	PS	8/11/2020 17:15	30377174021	Solid	1	X		-31
22	SB05 (16-20)	PS	8/11/2020 17:35	30377174022	Solid	1	X	X	-32,33
23									
24									

Transfers	Released By	Date/Time	Received By	Date/Time
1	Ben [signature]	8-13-20 1600	B. Barros	8-14-20 0930
2				
3				

Comments

Cooler Temperature on Receipt	Custody Seal	Received on Ice	Samples Intact
1.2 °C	Y or N	Y or N	Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

1.2±0=1.2 [initials] AG

A114

L1250694

TABLE 3. COPC Lists and Laboratory Reporting Limits (RLs)

Speedway Business Park Addition Property
1496/1500 Speedway Avenue, Grant BF-963604-01-0
Fairmont, Marion County, West Virginia

Metals	CAS No.	Groundwater (µg/L)	Soil (mg/kg)
Arsenic	7440-38-2	10	13*
Barium	7440-39-3	2000	15000
Cadmium	7440-43-9	5	37
Chromium	7440-47-3	22,000	120,000
Lead	7439-92-1	15	400
Mercury	7439-97-6	2	7.8
Selenium	7439-97-6	50	390
Silver	7440-22-4	94	390
Zinc	7440-66-6	6000	23000
PAHs	**CAS No.**	**Groundwater (µg/L)**	**Soil (mg/kg)**
Acenaphthene	83-32-9	240	4100
Acenaphthylene	208-96-8	320	4200
Anthracene	120-12-7	1800	23000
Benz[a]anthracene	56-55-3	0.012	0.21
Benzo[b]fluoranthene	205-99-2	0.034	0.16
Benzo[k]fluoranthene	207-08-9	0.34	1.6
Benzo[g,h,i]perylene	191-24-2	600	1800
Benzo[a]pyrene	50-32-8	0.2	0.016
Chrysene	218-01-9	3.4	16
Dibenz[a,h]anthracene	53-70-3	0.0034	0.016
Fluoranthene	206-44-0	800	2400
Fluorene	86-73-7	150	2900
Indeno[1,2,3-cd]pyrene	193-39-5	0.034	0.16
1-Methylnaphthalene	90-12-0	1.1	24
2-Methylnaphthalene	91-57-6	36	310
Naphthalene	91-20-3	0.17	4.1
Phenanthrene	85-01-8	6000	23000
Pyrene	129-00-0	79	2300

WO# : 30377174

L1250694

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30377174

Document
ist be completed accurately.

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Invoice Information:	
Company:	ENVIRONMENTAL STANDARDS, INC.	Report To:	Leah Mistick (Lmistick@envstd.com)	Attention:	Leah Mistick
Address:	1140 Valley Forge Road	Copy To:	Lydia Work (Lwork@envstd.com)	Company Name:	ENVIRONMENTAL STANDARDS, INC.
Valley Forge, PA 19482				Address:	1140 Valley Forge Road
Email:	lmistick@envstd.com	Purchase Order #:		Pace Quote:	
Phone:	610-935-5577 Fax:	Project Name:	Speedway ESA VRP	Pace Project Manager:	taylor.sullivan@pacelabs.com,
Requested Due Date:	Standard TAT	Project #:	20198730	Pace Profile #:	4066-1

Regulatory Agency
State / Location
WV

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 VOCs	8270 PAH By SIM	6010 Metals 37471	SPLP (VOCs)	SPLP (PAH SIM)	SPLP (metals)	Residual Chlorine (Y/N)		
1	SB01 (0-2)	SL	G	8/11/20	0905				2											X	X					001	001
2	SB01 (4-8)	SL	G	8/11/20	0930				7										X	X	X	X	X	X		002,003	002
3	SB02 (0-2)				1020				2											X	X					004	003
4	SB02 (0-2)-FD				1020				2											X	X					005	004
5	SB02 (14-15)				1050				7										X	X	X	X	X	X		006,007	005
6	SB07 (0-2)				1125				2											X	X					008	006
7	SB07 (20-24)				1205				7										X	X	X	X	X	X		009,010	007
8	SB07 (20-24)-FD				1205				7										X	X	X	X	X	X		011,012	008
9	SB10 (0-2)				1330				2											X	X					013	009
10	SB10 (14-16)				1350				7										X	X	X	X	X	X		014,015	010
11	SB09 (0-2)				1400				2											X	X					016	011
12	SB09 (16-20)				1415				7										X	X	X	X	X	X		017,018	012 MJS 8-12-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS (cf -0.3)			
Level 4 data package	[signature] ESI	8-12-20	0945	[signature]	8/12/20	0945	32	Y	N	Y
for all		8/12/20	1300	[signature] PACE	8/12/20	13:00				
samples; report	[signature] PACE	8/12/20	14:35	Nicole Rund	8/12/2020	14:35	6.0	Y	N	Y
to MDLs & correct for moisture										

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: LEAH MISTICK
SIGNATURE of SAMPLER: [signature]
DATE Signed: 8/11/20

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

L1250694
30377174

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 Of 2

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Company: ENVIRONMENTAL STANDARDS, INC.	Report To: Leah Mistick (Lmistick@envstd.com)	Attention: Leah Mistick
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Valley Forge, PA 19482		Address: 1140 Valley Forge Road
Email: lmistick@envstd.com	Purchase Order #:	Pace Quote:
Phone: 610-935-5577 Fax:	Project Name: Speedway ESA VRP	Pace Project Manager: taylor.sullivan@pacelabs.com,
Requested Due Date: Standard TAT	Project #: 20198730	Pace Profile #: 4066-1

Regulatory Agency

State / Location: WV

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): 8260 VOCs	8270 PAH by SIM	6010 Metals & 7471	SPLP (VOCs)	SPLP (PAH SIM)	SPLP (metals)	Residual Chlorine (Y/N)		
1	SB08 (0-2)	SL	G	8.11.20			1440		2										X	X					MS/MSD ~~014~~	013
2	SB08 (8-12)						1450		7									X	X	X	X	X	X		020,021	014
3	SB03 (0-2)						1510		2										X	X					022	015
4	SB03 (12-15)						1525		7									X	X	X	X	X	X		023,024	016
5	SB06 (0-2)						1545		2										X	X					025	017
6	SB06 (16-20)						1605		7									X	X	X	X	X	X		026,027	018
7	SB04 (0-~~2~~4)						1635		2										X	X					028	019
8	SB04 (20-24)						1700		7									X	X	X	X	X	X		MS/MSD ~~024,030~~	020
9	SB05 (0-2)						1715		2										X	X					031	021
10	SB05 (16-20)						1735		7									X	X	X	X	X	X		032	022
11																										
12	trip Blank																	X							033	023 MS 8-12-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	(cf-2.1)	SAMPLE CONDITIONS		
Level 4 data	ESI	8-12-20	0945		8/12/20	0945	3.2	Y	N	Y
packages for all		8/12/20	1700	PACE	8/12/20	13:00				
samples; report to MDLs	PACE	8/12/20	14:35	Nicole Rennie	8/12/2020	1435	6.0	Y	N	Y
Correct for % moisture										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leah Mistick

SIGNATURE of SAMPLER: [signature] DATE Signed: 8-11-20

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: PACEGPA	L1250694	
Cooler Received/Opened On: 8 / 14 / 20 Temperature:	1.2	
Received By: Billy Barras		
Signature: B. Barras		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

L1250694

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enviro. Stand. Project # 30377174

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: —

Label MIS
LIMS Login MIS

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 5.7 °C Correction Factor: +0.3 °C Final Temp: 6.0 °C

Temp should be above freezing to 6°C

pH paper Lot# NA

Date and Initials of person examining contents: NMR 8/12/2020

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4. NMR 8/12/2020
Sample Labels match COC: -Includes date/time/ID Matrix: SL		✓		5. ID on Sample ~~15~~ 005 is SB02 & ID on Sample 008 is SB07(20-25)-FD
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed NMR Date/time of preservation Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:	✓	X		18. NMR 8/12/2020
Trip Blank Custody Seals Present	✓			
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

J:\QAQC\Master\Document Management\Sample Mgt\Sample Condition Upon Receipt Pittsburgh (C056-9 5April2019)

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: PACEGPA	L1250694
Cooler Received/Opened On: 8 / 14 / 20 Temperature:	1-2
Received By: Billy Barras	
Signature: B. Barras	

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

APPENDIX C

ENVIRONMENTAL STANDARDS

Setting the Standards for Innovative Environmental Solutions

October 14, 2020

Alexander Petry
Program Manager - Economic Development
City of Fairmont
200 Jackson Street, Suite 301
Fairmont, WV 26554

Patricia Corbett, Project Officer
Brownfields & Land Revitalization
U.S. EPA, Region 3
1650 Arch Street
Philadelphia, PA 19103

Subject: **Quality Assurance Review of Phase II Environmental Site Assessment Data Speedway Business Park Addition Property**
1496/1500 Speedway Avenue, City of Fairmont, Marion County, West Virginia
ACRES number 242581

Dear Ms. Corbett and Mr. Petry:

Enclosed is the quality assurance review for the samples collected on August 11, 2020 at the Speedway Business Park property, in Fairmont, West Virginia.

The analytical data associated with the Speedway Business Park property were determined to meet the data quality objectives of the project.

As qualified, data collected during the field sampling activities can be used to characterize the site as well as to prepare a residual human health and ecological risk assessment for the site. The data can also be compared, as appropriate, to the environmental regulatory benchmarks, standards, and criteria under the West Virginia Department of Environmental Protection Brownfields and Voluntary Remediation Program. To confidently use any of the analytical data within this entire sample set, the data user should understand the qualifications and limitations of the results.

If you have any questions or comments, or if we can be of any further assistance, please feel free to call.

Sincerely,

Lydia M. Work, LRS
Principal Chemist

Enc.

1140 Valley Forge Road P.O. Box 810 Valley Forge, PA 19482 Tel: 610.935.5577 Fax: 610.935.5583 Web: www.envstd.com

ENVIRONMENTAL STANDARDS

Setting the Standards for Innovative Environmental Solutions

QUALITY ASSURANCE REVIEW FOR

SPEEDWAY BUSINESS PARK PROPERTY SAMPLING

PERFORMED ON AUGUST 11, 2020

LABORATORY SAMPLE DELIVERY GROUP: 30377174

October 2020

Prepared for:

CITY OF FAIRMONT
Mr. Alex Petry
Program Manager, Economic Development
200 Jackson St., Suite 301
Fairmont, WV 26554

Submitted to:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Patricia Corbett, Project Officer
Brownfields & Land Revitalization
U.S. EPA, Region 3
1650 Arch Street
Philadelphia, PA 19103

Prepared by:

ENVIRONMENTAL STANDARDS, INC.
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P.O. Box 810
Valley Forge, PA 19482-0810

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Introduction

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the soil samples collected on August 11, 2020, at the Speedway Business Park property in Fairmont, West Virginia. The samples that have undergone review are listed on Table 1. Table 1 also presents the laboratory sample numbers, Sample Delivery Group (SDG) numbers, matrices, collection dates, and parameter(s) examined.

The analytical data for the soil samples, including quality control (QC) samples, in SDG 30377174 were validated (Stage 4 Full review, inclusive of raw data and QC summary forms) as indicated on Table 1. The analyses performed include: volatile organic compounds (VOCs), polycyclic aromatic hydrocarbon compounds (PAHs) and metals, and synthetic precipitation leaching procedure (SPLP) VOCs, PAHs and metals by United States Environmental Protection Agency (US EPA), Office of Solid Waste's (SW-846) methods.

This data validation review was performed with guidance from the Quality Assurance Project Plan (QAPP) prepared for the City of Fairmont and the US EPA Region 3 Brownfields and Land Revitalization, (Environmental Standards, Inc., January 17, 2020), the “US EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review,” (US EPA, August 2017); “National Functional Guidelines for Inorganic Superfund Data Review,” (US EPA, August 2017); and “Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use,” (US EPA, January 2009). The National Functional Guidelines specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods. These validation guidelines are, therefore, not completely applicable to the type of analyses and analytical protocol performed for these samples. Environmental Standards, Inc. (Environmental Standards), used professional judgment to determine the usability of the analytical results and compliance relative to the analytical methods referenced by the laboratory.

Details of this QA review are presented in Section 1 of this report. The reported analytical results are presented in Section 2; any required data validation qualifications are presented on the analysis result forms in Section 2. Data were examined to determine the usability of the analytical results and compliance relative to the requirements specified in the analytical methods and the QAPP. In addition, the deliverables were evaluated for completeness and accuracy.

This report was prepared to provide a critical review of the laboratory analyses and reported analytical results. Rigorous QA reviews of laboratory-generated data routinely identify problems associated with analytical measurements, even from the most experienced and capable laboratories.

TABLE 1

SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

Lab Sample ID	SDG	Sample ID	Matrix	Sample Date	Analysis
30377174001 L1250694-01	30377174 L1250694	SB01 (0-2)	S	8/11/20	M, Hg P
30377174002 L1250694-02 L1250694-03	30377174 L1250694	SB01 (4-8)	S	8/11/20	V, P, M, Hg, V^1, M^1, Hg^1 P P^1
30377174003 L1250694-04	30377174 L1250694	SB02 (0-2)	S	8/11/20	M, Hg P
30377174004 L1250694-05	30377174 L1250694	SB02 (0-2)-FD (Field Duplicate of SB02 (0-2))	S	8/11/20	M, Hg P
30377174005 L1250694-06 L1250694-07	30377174 L1250694	SB02 (14-15)	S	8/11/20	V, P, M, Hg, V^1, M^1, Hg^1 P P^1
30377174006 L1250694-08	30377174 L1250694	SB07 (0-2)	S	8/11/20	M, Hg P
30377174007 L1250694-09 L1250694-10	30377174 L1250694	SB07 (20-24)	S	8/11/20	V, P, M, Hg, V^1, M^1, Hg^1 P P^1
30377174008 L1250694-11 L1250694-12	30377174 L1250694	SB07 (20-24)-FD (Field duplicate of SB07 (20-24))	S	8/11/20	V, P, M, Hg, V^1, M^1, Hg^1 P P^1
30377174009 L1250694-13	30377174 L1250694	SB10 (0-2)	S	8/11/20	M, Hg P
303771740010 L1250694-14 L1250694-15	30377174 L1250694	SB10 (14-16)	S	8/11/20	V, P, M, Hg, V^1, M^1, Hg^1 P P^1

TABLE 1 (Cont.)

Lab Sample ID	SDG	Sample ID	Matrix	Sample Date	Analysis
303771740011 L1250694-16	30377174 L1250694	SB09 (0-2)	S	8/11/20	M, Hg P
303771740012 L1250694-17 L1250694-18	30377174 L1250694	SB09 (16-20)	S	8/11/20	V, P, M, Hg, V^1, M^1, Hg^1 P P^1
303771740013 L1250694-19	30377174 L1250694	SB08 (0-2)	S	8/11/20	M, Hg P
303771740014 L1250694-20 L1250694-21	30377174 L1250694	SB08 (8-12)	S	8/11/20	V, P, M, Hg, V^1, M^1, Hg^1 P P^1
303771740015 L1250694-22	30377174 L1250694	SB03(0-2)	S	8/11/20	M, Hg P
303771740016 L1250694-23 L1250694-24	30377174 L1250694	SB03(12-15)	S	8/11/20	V, P, M, Hg, V^1, M^1, Hg^1 P P^1
303771740017 L1250694-25	30377174 L1250694	SB06 (0-2)	S	8/11/20	M, Hg P
303771740018 L1250694-26 L1250694-27	30377174 L1250694	SB06 (16-20)	S	8/11/20	V, P, M, Hg, V^1, M^1, Hg^1 P P^1
303771740019 L1250694-28	30377174 L1250694	SB04 (0-4)	S	8/11/20	M, Hg P
303771740020 L1250694-29 L1250694-30	30377174 L1250694	SB04 (20-24)	S	8/11/20	V, P, M, Hg, V^1, M^1, Hg^1 P P^1
303771740021 L1250694-31	30377174 L1250694	SB05 (0-2)	S	8/11/20	M, Hg P

TABLE 1 (Cont.)

Lab Sample ID	SDG	Sample ID	Matrix	Sample Date	Analysis
303771740022 L1250694-32 L1250694-33SB09	30377174 L1250694	SB05 (16-20)	S	8/11/20	V, P, M, Hg, V^1, M^1, Hg^1 P P^1
303771740023	30377174 L1250694	Trip Blank (Trip Blank)	Aq	8/11/20	V

NOTES:

V - VOCs by SW-846 Method 8260C. (12 analyses)
V^1 - SPLP VOCs by SW-846 Method 1312 and SW-846 Method 8260C. (11 analyses)
P - PAH compounds by SW-846 Method 8270E select ion monitoring (SIM). (22 analyses)
P^1 - SPLP PAH Compounds by SW-846 Method 1312 and SW-846 Method 8270D SIM. (11 analyses)
M - Total metals by SW-846 Method 6010D. (22 analyses)
M^1 - SPLP metals by SW-846 Method 1312 and SW-846 Method 6010D. (11 analyses)
Hg - Total Mercury by SW-846 Method 7471A. (22 analyses)
Hg^1 - SPLP Mercury by SW-846 Method 1312 and SW-846 Method 7470A. (11 analyses)
S - Soil
Aq - Aqueous

Section 1 Quality Assurance Review

A. Organic Review

The analyses of 22 soil samples and one aqueous trip blank, not including QC samples, collected at the Speedway Business Park property in Fairmont, West Virginia by Environmental Standards, Inc. (ESI), were performed by Pace Analytical Services, LLC of Greensburg, Pennsylvania (Pace Greensburg) and Pace Analytical Services, LLC of Mt. Juliet, Tennessee (Pace National). The samples were analyzed for VOCs by SW-846 Method 8260C and SPLP VOCs by SW-846 Methods 1312/8260C by Pace Greensburg, and for PAHs by SW-846 Method 8270E select ion monitoring (SIM) and SPLP PAHs by SW-846 Methods 1312/ 8270D SIM. The specific samples and analyses reviewed are identified on Table 1. Table 1 also presents the laboratory sample numbers, SDG numbers, matrices, collection dates, and parameter(s) examined.

The findings in this report are based upon a review of sample holding times, condition of samples upon laboratory receipt, blank analysis results, laboratory control sample (LCS) results, matrix spike (MS) and matrix spike duplicate (MSD) results, mass tuning injections, initial and continuing calibrations, surrogate recoveries, internal standard performance, laboratory and field duplicate results, sample preparation, instrument sensitivity, analytical sequence, the quantitation of positive results, and a critical evaluation of instrumental raw data. Any required data validation qualifications are presented on the Analytical Results Forms in Section 2. Qualifiers provided by the laboratory were maintained within the Analytical Results Forms.

Issues are typically presented in two categories - deliverable issues and procedural issues. Deliverable issues are data issues that can easily be corrected and that may or may not impact the usability of the reported results. Procedural issues are issues that cannot be corrected and address method compliance issues; these issues may or may not impact the usability of the reported results. Comments are offered for clarification of issues relating to the data and do not typically impact the usability of the reported results. The following issues and comments do not necessarily affect data usability (*viz*., items necessitating data qualification).

Deliverable Review

1. In the VOCs section of the report, the relative response factors (RRF) reported on the summary forms for the initial calibration verification (ICV) performed on instrument 30MV6B on August 13, 2020 at 18:22 and the continuing calibration verification (CCV) analyzed on instrument 30MV3A on August 21, 2020 at 11:42 appeared to be incorrect. Upon Environmental Standards' Inquiry, the laboratory replied that the data was uploaded incorrectly and provided a revised data package to include corrected forms.

2. In the PAH section of the report, the raw data for the 0.4 part per billion (ppb) initial calibration standard analyzed on instrument BNAMS14 on July 31, 2020 reported no responses for target analytes, yet the initial calibration summary reported RRFs for several target analytes. Upon Environmental Standards' inquiry the laboratory provided revised raw data for the standard that included responses for the target analytes. Qualification of the data due to this issue was not warranted.

3. In the PAH section of the report, a second source calibration verification (SSCV) was not included for instrument BNAMS28. Upon Environmental Standards' inquiry, the laboratory provided a revised data package that included the missing SSCV form and a revised Instrument Performance Check summary and Runlog. Qualification of the data due to this issue was not warranted.

4. The laboratory did not include a preservation or freezing log for the VOCs samples. Upon Environmental Standards' inquiry, the laboratory responded that it does not notate the freezing of unpreserved samples, but that as no holding time flags were applied, it either received preserved vials or the vials were stored in the freezer prior to analysis. The laboratory further stated that the vials were ordered form the Pace laboratory in Beaver, West Virginia and did contain preservative. Qualification due to this issue was not warranted.

5. The laboratory applied "J" qualification to sample results that were between the sample-specific method detection limit (MDL) and reporting limit (RL), however, the placement of these "J" flags was inconsistent in that some of the results were flagged beside the analytical result and some were flagged under the "Qual column. For the sake of consistency, the data reviewer annotated the Analytical Results forms to place all qualification flags under the "Qual" column.

Comments

1. The field duplicates of samples SB02 (0-2) and SB07 (20-24) met the data quality objectives (DQOs) for precision. A summary of the field duplicate analyses results for organics is presented in Section 3.

2. Acetone contamination was observed in the SPLP Leachate Blank associated with samples SB07 (20-24) and SB07 (20-24)-FD and in the Soil Method Blank associated with samples SB06 (16-20), SB04 (20-24), SB05 (16-20). It should be noted that dilution factors and sample volume were taken into account when evaluating blank contamination. Qualification of the data due to this issue is discussed in more detail in the Organic Data Qualifiers section below.

3. The VOC analyses of samples 1985518MS and 1985519MSD (the MS/MSD of sample SB04 (20-24) did not meet the acceptance criteria for acetone. Qualification of the data due to this issue is discussed in more detail in the Organic Data Qualifiers section below.

4. The SPLP PAH analyses of samples R3562497-3 and R3562497-4 (the MS/MSD of sample SB10 (14-16) did not meet the acceptance criteria for benzo(g,h,i)perylene; dibenz(a,h)anthracene; and indeno(1,2,3-cd)pyrene. Qualification of the data due to this issue is addressed in more detail in the Organic Data Qualifiers section below.

5. The SPLP PAH analyses of samples SB02 (14-15), SB07 (20-24), SB07 (20-24)-FD, SB09 (16-20), SB04 (20-24), and SB05 (16-20) did not meet the acceptance criteria for surrogate *p*-terphenyl-*d*14. Qualification of the data due to this issue is addressed in more detail in the Organic Data Qualifiers section below.

6. The VOC analyses of the CCVs associated with soil samples SB06 (16-20), SB04 (20-24), and SB05 (16-20) did not meet the acceptance criteria for 4-methyl-2-pentanone (MIBK). Qualification of the data due to this issue is addressed in more detail in the Organic Data Qualifiers section below.

7. The VOC analysis of the CCV associated with sample Trip Blank did not meet the acceptance criteria for bromoform and 1,2-dibromo-3-chloropropane. Qualification of the data due to this issue is addressed in more detail in the Organic Data Qualifiers section below.

8. The VOC analyses for bromomethane and methyl acetate in the samples noted in the Organic Data Qualifiers section below did not meet the method minimum requirement for response factor (RF) in the initial calibration. Qualification of the data due to this issue is addressed in the Organic Data Qualifiers section below

9. The SPLP acetone and methylene chloride results for samples SB01 (4-8) and SB06 (16-20) were unexpectedly high compared to the respective soil results for those compounds. Upon Environmental Standards' inquiry, the laboratory replied that the questionable SPLP results were likely due to laboratory contamination and revised the report to include a "C7" qualifier, defined as "Analyte is a possible laboratory contaminant (not present in method blank), applied to the sample results. Qualification of the data due to this issue is addressed in the Organic Data Qualifiers section below (See Project Correspondence).

Organic Data Qualifiers

Based upon a Stage 4 review of the data packages provided, organic data qualification was warranted. The principal areas of concern are blank contamination, out-of-criteria surrogate recoveries, out-of-criteria MS/MSD recoveries, MS/MSD imprecision, calibration issues, and results reported between the MDL and RL.

Data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the validation guidelines specify areas of the data that require qualification, yet the methods used for analysis do not require any corrective action by the laboratory. Accordingly, the data usability issues should not necessarily be construed as an indication of laboratory performance.

The following organic data qualifiers are presented.

Blank Contamination:

Qualified Sample	Analyte	Qualifier	Qualification
SB07 (20-24) and SB07 (20-24)-FD	SPLP acetone	U*	LB- Leachate Blank contamination
SB01 (4-8), SB02 (14-15), and SB06 (16-20)	SPLP acetone and methylene chloride	B	VB- Laboratory contamination (not in Method Blank)
SB06 (16-20), SB04 (20-24), and SB05 (16-20)	Soil acetone	U*	MB- Method Blank contamination

Due to trace-level presence in the associated leachate blank or method blank, the reported positive results for acetone samples listed above should be considered “not-detected” due to potential laboratory contamination and has been flagged “U*” on the Analytical Results Forms.

The SPLP acetone results for samples SB01 (4-8), SB02 (14-15), and SB06 (16-20) and the SPLP methylene chloride results for samples SB01 (4-8) and SB06 (16-20), were unexpectedly high compared to the respective soil results for those compounds and were above the action limit. Upon Environmental Standards’ inquiry, the laboratory replied that the SPLP acetone and methylene chloride results for those samples were likely due to laboratory contamination and were flagged “B” on the Analytical Results Forms.

It should be noted that dilution factors and sample volume were taken into account when evaluating blank contamination.

Surrogate Recovery:

Qualified Sample(s)	Analyte(s)	Qualifier(s)	Qualification
SB02 (14-15), SB07 (20-24), SB07 (20-24)-FD, SB09 (16-20), SB04 (20-24), and SB05 (16-20)	All SPLP PAH compounds	UJ/J	Low surrogate recoveries

The ability of the laboratory to accurately quantify all SPLP PAH compounds in the samples mentioned above was not demonstrated, and the results should be considered estimated, biased low and flagged “UJ” if not detected or “J” if detected on the Analytical Results Forms. A low recovery (< lower laboratory limit) was observed for surrogate compound *p*-terphenyl-*d*14 in the sample analyses.

MS/MSD Accuracy and Precision:

Qualified Sample(s)	Analyte(s)	Qualifier	Qualification
SB04 (20-24)	Soil acetone	J (unless previous flagged U*)	MS/MSD imprecision
SB10 (14-16)	SPLP benzo(g,h,i)perylene; dibenz(a,h)anthracene; and indeno (1,2,3-cd)pyrene	UJ	Low MS/MSD recovery

The ability of the laboratory to accurately detect acetone in sample SB04 (20-24) was not demonstrated, and the result has been qualified as estimated and flagged "J" on the Analytical Results Forms (unless previously flagged "U*"). High imprecision (> the laboratory acceptance limit) was observed for acetone in the associated MS/MSD analyses.

The ability of the laboratory to accurately quantify SPLP benzo(g,h,i)perylene; dibenz(a,h)anthracene; and indeno(1,2,3-cd)pyrene in sample SB10 (14-16) was not demonstrated, and the not-detected results have been estimated and flagged "UJ" on the Analytical Results Forms. Low recoveries (< low laboratory limits) were observed for these compounds in the associated MS and/or MSD analyses.

Calibration:

Qualified Sample(s)	Analyte(s)	Qualifier	Qualification
SB01 (4-8), SB02 (14-15), SB07 (20-24), SB07 (20-24)-FD, SB10 (14-16), SB09 (16-20), SB08 (8-12), and SB03(12-15)	Soil bromomethane and methyl acetate	UJ	Low initial and continuing calibration response factors
SB06 (16-20), SB04 (20-24), and SB05 (16-20)	Soil methyl acetate	UJ	Low initial and continuing calibration response factors
SB06 (16-20), SB04 (20-24), and SB05 (16-20)	Soil 4-methyl-2-pentanone	UJ	Low CCV recoveries
SB01 (4-8), SB02 (14-15), SB07 (20-24), and SB07 (20-24)-FD	SPLP bromomethane and methyl acetate	UJ	Low initial and continuing calibration response factors

Qualified Sample(s)	Analyte(s)	Qualifier	Qualification
SB10 (14-16), SB09 (16-20), SB08 (8-12), SB03 (12-15), SB06 (16-20), SB04 (20-24), and SB05 (16-20)	SPLP methyl acetate	UJ	Low initial and continuing calibration response factors
Trip Blank	bromoform and 1,2-dibromo-3-chloropropane	UJ	Low CCV recoveries

The ability of the laboratory to quantify 4-methyl-2-pentanone in soil samples SB06 (16-20), SB04 (20-24), and SB05 (16-20) was not demonstrated, and the results have been estimated and flagged "UJ" on the Analytical Results Forms. A high percent difference (> 20 %), coupled with a decrease in sensitivity, was observed for 4-methyl-2-pentanone in the associated instrument continuing calibrations.

The ability of the laboratory to quantify acetone and 1,2-dibromo-3-chloropropane in sample Trip Blank was not demonstrated, and the results have been estimated and flagged "UJ" on the Analytical Results Forms. High percent differences (> 20 %), coupled with a decrease in sensitivity, was observed for these compounds in the associated instrument continuing calibrations.

Sample Quantitation:

In accordance with project protocols, all results reported at concentrations less than the sample-specific RL (adjusted for dilution factor and sample volume) should be considered estimated and have been flagged "J" on the Analytical Results Forms.

Complete support documentation for this organic QA review can be provided upon request.

B. Inorganic Review

The analyses of 22 soil samples, not including QC samples, collected at the Speedway Business Park property by ESI, were performed by Pace Greensburg. The samples were analyzed for total metals and mercury by SW-846 Methods 6010D and 7471A, respectively; and SPLP metals and mercury by SW-846 Methods 1312/6010D, and 1312/7470A, respectively. The specific samples and analyses reviewed are identified on Table 1. Table 1 also presents the laboratory sample numbers, SDG numbers, matrices, collection dates, and parameters examined.

The findings offered in this report are based on a review of the holding times, condition of samples upon laboratory receipt, blank analysis results, initial and continuing calibrations, RL standard results, LCS results, MS/MSD results, laboratory and field duplicate results, analytical sequence, quantitation of positive results, and a critical evaluation of associated raw data. Any required data validation qualifications are presented on the qualified Analytical Results Forms presented in Section 2. Qualifiers provided by the laboratory were maintained within the Analytical Results Forms.

Issues are typically presented in two categories - deliverable issues and procedural issues. Deliverable issues are data issues that can easily be corrected and that may or may not impact the usability of the reported results. Procedural issues are issues that cannot be corrected and address method compliance issues; these issues may or may not impact the usability of the reported results. Comments address issues for which the data reviewer has provided information in order to clarify issues relating to the data; comments do not typically impact the usability of the reported results.

Overall, the data quality is acceptable. Procedural and reporting requirements were met for this data set with exception of the items detailed below. The following issue/comments do not necessarily affect data usability. Usability issues are addressed in the subsequent Inorganic Data Qualifiers section.

Deliverable Review

- The laboratory applied “J” qualification to sample results that were between the sample-specific method detection limit (MDL) and reporting limit (RL), however, the placement of these “J” flags was inconsistent in that some of the results were flagged beside the analytical result and some were flagged under the “Qual column. For the sake of consistency, the data reviewer annotated the Analytica Results forms to place all qualification flags under the “Qual” column.

Comments

1. The field duplicate of soil sample SB07 (20-24) was determined to meet the project DQOs for precision, with the exception of arsenic and barium. The RPDs between the results for these analytes in the samples and the field duplicate were > 40%. Qualification of the data due to this issue is discussed in more detail in the Inorganic Data Qualifiers section below. A summary of the field duplicate analyses results is presented in Section 3.

2. The field duplicate of SPLP sample SB07 (20-24) met the DQOs for precision. A summary of the field duplicate analyses results is presented in Section 3.

3. The field duplicate of soil sample SB02 (0-2) met the DQOs for precision. A summary of the field duplicate analyses results is presented in Section 3.

4. The instrument blanks, method blank and leachate blanks associated with all batches were found to be free of interferences with the exceptions noted in the Inorganic Data Qualifiers section below.

5. The metals analyses of the samples 1982665MS (the matrix spike of sample SB04 (20-24)) and 1982261MS (the matrix spike of sample SB08 (0-2)) did not meet the acceptance criteria for barium. Qualification of the data due to this issue is discussed in more detail in the Inorganic Data Qualifiers section below.

6. The metals analysis of sample 1982660DUP (the laboratory duplicate of sample SB08 (0-2) did not meet the acceptance criteria for barium, lead, and zinc. Qualification

of the data due to this issue is discussed in more detail in the Inorganic Data Qualifiers section below.

9. The LCS analyses were determined to meet the project DQOs for accuracy and precision.

Inorganic Data Qualifiers

Based upon a Stage 4 review of the data packages provided, inorganic data qualification was warranted. The principal areas of concern are blank contamination, out-of-criteria MS/MSD recoveries, duplicate imprecision, field duplicate imprecision, and results reported between the MDLs and RLs.

Data usability issues represent an interpretation of the QC results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the validation guidelines specify areas of the data that require qualification, yet the methods used for analysis do not require any corrective action by the laboratory. Accordingly, the data usability issues should not necessarily be construed as an indication of laboratory performance.

The following inorganic data qualifiers are presented.

Blank Contamination:

Qualified Sample	Analyte	Qualifier	Qualification
SB01 (4-8), SB07 (20-24), SB07 (20-24) FD, SB09 (16-20), SB08 (8-12), SB03 (12-15), SB06 (16-20) and SB04 (20-24)	SPLP cadmium	U*	CCB- continuing calibration blank contamination
SB01 (4-8), SB10 (14-16), and SB03 (12-15)	SPLP barium	U*	LB- leachate blank contamination
SB01 (4-8), SB07(20-24), SB07 (20-24) FD, SB10 (14-16), SB08 (8-12), SB03 (12-15), SB06 (16-20), and SB05 (16-20)	SPLP zinc	U*	LB- leachate blank contamination
SB02 (14-15), SB07 (20-24), and SB07 (20-24)-FD	SPLP mercury	U*	MB- method blank contamination LB- leachate blank contamination
SB09 (16-20), SB08 (8-12), SB03 (12-15), SB06 (16-20), SB04 (20-24), and SB05 (16-20)	SPLP mercury	J/UJ	NB- negative blank result

Due to it trace-level presence in an associated continuing calibration blank (CCB), the reported positive results for SPLP cadmium in samples SB01 (4-8), SB07 (20-24), SB07 (20-24)-FD, SB09 (16-20), SB08 (8-12), SB03 (12-15), SB06 (16-20) and SB04 (20-24) should be considered "not-detected" due to potential laboratory contamination and have been flagged "U*" on the Analytical Results Forms.

Due to it trace-level presence in the associated leachate blank, the reported positive results for SPLP barium in samples SB01 (0-2), SB10 (14-16), and SB03 (12-15) should be considered "not-detected" due to potential laboratory contamination and have been flagged "U*" on the Analytical Results Forms.

Due to it trace-level presence in the associated leachate blank, the reported positive results for SPLP zinc in samples SB01 (0-2), SB07(20-24), SB07 (20-24) FD, SB10 (14-16), SB08 (8-12), SB03 (12-15), SB06 (16-20), and SB05 (16-20) should be considered "not-detected" due to potential laboratory contamination and have been flagged "U*" on the Analytical Results Forms.

Due to it trace-level presence in the associated leachate blank and in the associated method blank, the reported positive results for SPLP mercury in samples SB02 (14-15), SB07 (20-24), and SB07 (20-24)-FD should be considered "not-detected" due to potential laboratory contamination and have been flagged "U*" on the Analytical Results Forms.

Due to a negative blank result > 2× the MDL, the reported positive results for SPLP mercury in SB09 (16-20), SB08 (8-12), SB03 (12-15), SB06 (16-20), SB04 (20-24), and SB05 (16-20) should be considered estimated and have been flagged "J" on the Analytical Results Form. In addition, the MDL and RL for any "not-detected" SPLP mercury results in the noted samples may be higher than reported, and have been flagged "UJ" on the Analytical Results Forms.

It should be noted that dilution factors and sample volume were taken into account when evaluating blank contamination.

MS/MSD Accuracy and Precision:

Qualified Samples	Analyte(s)	Qualifier	Qualification
SB04 (20-24), SB05 (0-2), and SB05 (16-20)	soil barium	J+	High MS/MSD recovery
SB01 (0-2), SB01 (4-8), SB02 (0-2), SB02 (0-2)-FD, SB02 (14-15), SB07 (0-2), SB07 (20-24), SB07 (20-24)-FD, SB10 (0-2), SB10 (14-16), SB09 (0-2), SB09 (16-20), SB08 (0-2), SB08 (8-12), SB03(0-2), SB03(12-15), SB06 (0-2), SB06 (16-20), and SB04 (0-4)	soil barium	J-	Low MS/MSD recovery

The ability of the laboratory to accurately quantify barium in the soil samples listed above was not demonstrated, and the detected results have been estimated and flagged “J+” on the Analytical Results Forms. A high recovery (> 125%) was observed for barium in the associated MS analysis.

The ability of the laboratory to accurately quantify barium in the soil samples listed above was not demonstrated, and the detected results have been estimated and flagged “J-” on the Analytical Results Forms. A low recovery (< 75 %) were observed for barium in the associated analysis.

Laboratory Duplicate

Qualified Samples	Analyte(s)	Qualifier	Qualification
SB01 (0-2), SB01 (4-8), SB02 (0-2), SB02 (0-2)-FD, SB02 (14-15), SB07 (0-2), SB07 (20-24), SB07 (20-24)-FD, SB10 (0-2), SB10 (14-16), SB09 (0-2), SB09 (16-20), SB08 (0-2), SB08 (8-12), SB03(0-2), SB03(12-15), SB06 (0-2), SB06 (16-20), and SB04 (0-4)	soil barium, soil lead, and soil zinc	J (unless previously flagged “J+” or “J-“	Laboratory duplicate imprecision

The ability of the laboratory to accurately quantify barium, lead, and zinc in the soil samples noted above was not demonstrated, and the reported positive results for barium, lead, soil zinc in these samples were flagged “J” on the Analytical Results Forms. A high RPD (> 20%) was observed between the soil barium, soil lead, and soil zinc results in sample SB08 (0-2) and its laboratory duplicate, sample 1982660DUP.

Field Duplicate

Qualified Samples	Analyte(s)	Qualifier	Qualification
SB07 (20-24) and SB07 (20-24)-FD	soil arsenic and soil barium	J (unless previously flagged “J-“)	Field duplicate imprecision

The ability of the laboratory to accurately quantify arsenic and barium in soil samples SB07 (20-24) and SB07 (20-24)-FD was not demonstrated, and the reported positive results for arsenic and barium in these samples were flagged “J” on the Analytical Results Forms. A high RPD (> 40%) was observed between the arsenic and barium results in sample PWC-SS4 (0'-2')A and its field duplicate PWC-SS4 (0'-2')A-FD- 02/03/2020.

Sample Quantitation

In accordance with project protocols, all results reported at concentrations less than the sample-specific RL (adjusted for dilution factor and sample volume) should be considered estimated and have been flagged “J” (unless previously flagged “U*”) on the Analytical Results Forms.

Complete data support documentation of this inorganic QA review can be made available upon request.

C. Conclusions

Based upon review of the data packages provided, several organic and inorganic results were qualified as “not-detected” due to blank contamination. Several organic results were qualified as estimated due to out-of-criteria surrogate recoveries, out-of-criteria MS/MSD recoveries, MS/MSD imprecision, and calibration issues. Several inorganic results were qualified as estimated due to negative blank results, out-of-criteria MS/MSD recoveries, laboratory duplicate imprecision, and field duplicate imprecision. In addition, several organic and inorganic results were qualified as estimated for being reported between the MDL and RL.

To confidently use any of the analytical data within this sample set, the data user should understand the qualifications and limitations of the results. The Laboratory Case Narratives are provided in Section 4. The Chain-of-Custody Records, Receipt Information, and Project Correspondence are provided in Section 5.

The analytical data associated with the Speedway Business Park property in Fairmont, WV, were determined to meet the DQOs of the project.

As qualified, data collected during the field sampling activities can be used to characterize the site as well as to prepare a residual human health and ecological risk assessment for the Site.

Report Prepared by,

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Report Reviewed by,

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Date: 10/14/20

SECTION 2

ANALYTICAL RESULTS

ORGANIC DATA QUALIFIER NOTES

U* This compound should be considered “not-detected” because it was detected in a rinsate blank or laboratory method blank at a similar level.

J Quantitation is approximate due to limitations identified during the data validation.

R Unusable result; compound may or may not be present in sample.

UJ This compound was not detected, but the quantitation limit may or may not be higher due to a bias identified during data validation.

INORGANIC DATA QUALIFIER NOTES

U* This compound should be considered “not-detected” because it was detected in a rinsate blank or laboratory method blank at a similar level.

J Quantitation is approximate due to limitations identified during the data validation.

R Unusable result; compound may or may not be present in sample.

UJ This compound was not detected, but the quantitation limit may or may not be higher due to a bias identified during data validation.

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (0-2) **Lab ID: 30377174001** Collected: 08/11/20 09:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**4.7**	mg/kg	1.0	0.40	1	08/17/20 10:08	08/19/20 08:50	7440-38-2	
Barium	**98.7**	mg/kg	2.0	0.13	1	08/17/20 10:08	08/19/20 08:50	7440-39-3	J-
Cadmium	**0.23J**	mg/kg	0.30	0.046	1	08/17/20 10:08	08/19/20 08:50	7440-43-9	J
Chromium	**15.8**	mg/kg	1.0	0.77	1	08/17/20 10:08	08/19/20 08:50	7440-47-3	
Lead	**44.7**	mg/kg	1.0	0.46	1	08/17/20 10:08	08/19/20 08:50	7439-92-1	J
Selenium	**<0.61**	mg/kg	1.6	0.61	1	08/17/20 10:08	08/19/20 08:50	7782-49-2	
Silver	**<0.086**	mg/kg	0.61	0.086	1	08/17/20 10:08	08/19/20 08:50	7440-22-4	
Zinc	**116**	mg/kg	2.0	1.1	1	08/17/20 10:08	08/19/20 08:50	7440-66-6	J
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.093J**	mg/kg	0.12	0.0057	1	08/17/20 11:58	08/17/20 21:50	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**0.431**	mg/kg	0.00711	0.00273	1	08/17/20 20:48	08/18/20 08:06	120-12-7	
Acenaphthene	**0.122**	mg/kg	0.00711	0.00248	1	08/17/20 20:48	08/18/20 08:06	83-32-9	
Acenaphthylene	**<0.00256**	mg/kg	0.00711	0.00256	1	08/17/20 20:48	08/18/20 08:06	208-96-8	
Benzo(a)anthracene	**0.921**	mg/kg	0.00711	0.00205	1	08/17/20 20:48	08/18/20 08:06	56-55-3	
Benzo(a)pyrene	**0.626**	mg/kg	0.00711	0.00212	1	08/17/20 20:48	08/18/20 08:06	50-32-8	
Benzo(b)fluoranthene	**0.823**	mg/kg	0.00711	0.00181	1	08/17/20 20:48	08/18/20 08:06	205-99-2	
Benzo(g,h,i)perylene	**0.350**	mg/kg	0.00711	0.00210	1	08/17/20 20:48	08/18/20 08:06	191-24-2	
Benzo(k)fluoranthene	**0.284**	mg/kg	0.00711	0.00255	1	08/17/20 20:48	08/18/20 08:06	207-08-9	
Chrysene	**0.769**	mg/kg	0.00711	0.00275	1	08/17/20 20:48	08/18/20 08:06	218-01-9	
Dibenz(a,h)anthracene	**0.132**	mg/kg	0.00711	0.00204	1	08/17/20 20:48	08/18/20 08:06	53-70-3	
Fluoranthene	**1.73**	mg/kg	0.00711	0.00269	1	08/17/20 20:48	08/18/20 08:06	206-44-0	
Fluorene	**0.145**	mg/kg	0.00711	0.00243	1	08/17/20 20:48	08/18/20 08:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.338**	mg/kg	0.00711	0.00215	1	08/17/20 20:48	08/18/20 08:06	193-39-5	
Naphthalene	**0.0377**	mg/kg	0.0237	0.00484	1	08/17/20 20:48	08/18/20 08:06	91-20-3	
Phenanthrene	**1.20**	mg/kg	0.00711	0.00274	1	08/17/20 20:48	08/18/20 08:06	85-01-8	
Pyrene	**1.36**	mg/kg	0.00711	0.00237	1	08/17/20 20:48	08/18/20 08:06	129-00-0	
1-Methylnaphthalene	**0.0563**	mg/kg	0.0237	0.00532	1	08/17/20 20:48	08/18/20 08:06	90-12-0	
2-Methylnaphthalene	**0.0737**	mg/kg	0.0237	0.00506	1	08/17/20 20:48	08/18/20 08:06	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	89.8	%	14.0-149		1	08/17/20 20:48	08/18/20 08:06	4165-60-0	
2-Fluorobiphenyl (S)	83.6	%	34.0-125		1	08/17/20 20:48	08/18/20 08:06	321-60-8	
Terphenyl-d14 (S)	89.6	%	23.0-120		1	08/17/20 20:48	08/18/20 08:06	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**14.7**	%	0.10	0.10	1		08/14/20 11:01		

Applies to metals and VOCs.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (0-2) **Lab ID: 30377174001** Collected: 08/11/20 09:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**84.4**	%			1	08/19/20 14:47	08/19/20 14:55		

Applies to PAH only

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg									
Arsenic	**6.3**	mg/kg	1.2	0.45	1	08/17/20 10:08	08/19/20 08:53	7440-38-2		
Barium	**86.7**	mg/kg	2.3	0.15	1	08/17/20 10:08	08/19/20 08:53	7440-39-3	J-	
Cadmium	**0.12J**	mg/kg	0.35	0.053	1	08/17/20 10:08	08/19/20 08:53	7440-43-9	J	
Chromium	**22.1**	mg/kg	1.2	0.88	1	08/17/20 10:08	08/19/20 08:53	7440-47-3		
Lead	**17.2**	mg/kg	1.2	0.52	1	08/17/20 10:08	08/19/20 08:53	7439-92-1	J	
Selenium	**<0.70**	mg/kg	1.9	0.70	1	08/17/20 10:08	08/19/20 08:53	7782-49-2		
Silver	**<0.099**	mg/kg	0.70	0.099	1	08/17/20 10:08	08/19/20 08:53	7440-22-4		
Zinc	**49.9**	mg/kg	2.3	1.3	1	08/17/20 10:08	08/19/20 08:53	7440-66-6	J	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 7.67 Pace Analytical Services - Greensburg									
Arsenic	**<0.0033**	mg/L	0.025	0.0033	1	08/19/20 12:07	08/21/20 08:25	7440-38-2	2c	
Barium	**0.044J**	mg/L	0.050	0.00055	1	08/19/20 12:07	08/21/20 08:25	7440-39-3	2c,B	U*
Cadmium	**0.00032J**	mg/L	0.015	0.00027	1	08/19/20 12:07	08/21/20 08:25	7440-43-9	2c	U*
Chromium	**0.0062J**	mg/L	0.025	0.00067	1	08/19/20 12:07	08/21/20 08:25	7440-47-3	2c,B	J
Lead	**<0.0031**	mg/L	0.025	0.0031	1	08/19/20 12:07	08/21/20 08:25	7439-92-1	2c	
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/19/20 12:07	08/21/20 08:25	7782-49-2	2c	
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/19/20 12:07	08/21/20 08:25	7440-22-4	2c	
Zinc	**0.012J**	mg/L	0.025	0.0034	1	08/19/20 12:07	08/21/20 08:25	7440-66-6	2c,B	U*
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 7.67 Pace Analytical Services - Greensburg									
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/19/20 14:17	08/19/20 22:38	7439-97-6		
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg									
Mercury	**0.030J**	mg/kg	0.12	0.0059	1	08/17/20 11:58	08/17/20 21:51	7439-97-6		J

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**<0.00283**	mg/kg	0.00737	0.00283	1	08/17/20 20:48	08/18/20 03:58	120-12-7	
Acenaphthene	**<0.00257**	mg/kg	0.00737	0.00257	1	08/17/20 20:48	08/18/20 03:58	83-32-9	
Acenaphthylene	**<0.00265**	mg/kg	0.00737	0.00265	1	08/17/20 20:48	08/18/20 03:58	208-96-8	
Benzo(a)anthracene	**<0.00213**	mg/kg	0.00737	0.00213	1	08/17/20 20:48	08/18/20 03:58	56-55-3	
Benzo(a)pyrene	**<0.00220**	mg/kg	0.00737	0.00220	1	08/17/20 20:48	08/18/20 03:58	50-32-8	
Benzo(b)fluoranthene	**<0.00188**	mg/kg	0.00737	0.00188	1	08/17/20 20:48	08/18/20 03:58	205-99-2	
Benzo(g,h,i)perylene	**<0.00218**	mg/kg	0.00737	0.00218	1	08/17/20 20:48	08/18/20 03:58	191-24-2	
Benzo(k)fluoranthene	**<0.00264**	mg/kg	0.00737	0.00264	1	08/17/20 20:48	08/18/20 03:58	207-08-9	
Chrysene	**<0.00285**	mg/kg	0.00737	0.00285	1	08/17/20 20:48	08/18/20 03:58	218-01-9	
Dibenz(a,h)anthracene	**<0.00211**	mg/kg	0.00737	0.00211	1	08/17/20 20:48	08/18/20 03:58	53-70-3	
Fluoranthene	**<0.00279**	mg/kg	0.00737	0.00279	1	08/17/20 20:48	08/18/20 03:58	206-44-0	
Fluorene	**<0.00252**	mg/kg	0.00737	0.00252	1	08/17/20 20:48	08/18/20 03:58	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00222**	mg/kg	0.00737	0.00222	1	08/17/20 20:48	08/18/20 03:58	193-39-5	
Naphthalene	**<0.00501**	mg/kg	0.0246	0.00501	1	08/17/20 20:48	08/18/20 03:58	91-20-3	
Phenanthrene	**<0.00284**	mg/kg	0.00737	0.00284	1	08/17/20 20:48	08/18/20 03:58	85-01-8	
Pyrene	**<0.00246**	mg/kg	0.00737	0.00246	1	08/17/20 20:48	08/18/20 03:58	129-00-0	
1-Methylnaphthalene	**<0.00552**	mg/kg	0.0246	0.00552	1	08/17/20 20:48	08/18/20 03:58	90-12-0	
2-Methylnaphthalene	**<0.00525**	mg/kg	0.0246	0.00525	1	08/17/20 20:48	08/18/20 03:58	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	96.5	%	14.0-149		1	08/17/20 20:48	08/18/20 03:58	4165-60-0	
2-Fluorobiphenyl (S)	91.7	%	34.0-125		1	08/17/20 20:48	08/18/20 03:58	321-60-8	
Terphenyl-d14 (S)	93.7	%	23.0-120		1	08/17/20 20:48	08/18/20 03:58	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 8.52								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 11:46	120-12-7	
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 11:46	83-32-9	
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 11:46	208-96-8	
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 11:46	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 11:46	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 11:46	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 11:46	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 11:46	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 11:46	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 11:46	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 11:46	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 11:46	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 11:46	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 11:46	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 11:46	85-01-8	
Pyrene	**0.0383J**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 11:46	129-00-0	J
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 11:46	90-12-0	

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(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 8.52								
	Pace National - Mt. Juliet								
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 11:46	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	140	%	31.0-160		2	08/21/20 07:13	08/21/20 11:46	4165-60-0	
2-Fluorobiphenyl (S)	109	%	48.0-148		2	08/21/20 07:13	08/21/20 11:46	321-60-8	
Terphenyl-d14 (S)	48.9	%	37.0-146		2	08/21/20 07:13	08/21/20 11:46	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**44.9**	ug/kg	10.1	3.2	1	08/19/20 12:46	08/19/20 23:41	67-64-1	
Benzene	**<0.88**	ug/kg	5.0	0.88	1	08/19/20 12:46	08/19/20 23:41	71-43-2	
Bromodichloromethane	**<1.1**	ug/kg	5.0	1.1	1	08/19/20 12:46	08/19/20 23:41	75-27-4	
Bromoform	**<0.67**	ug/kg	5.0	0.67	1	08/19/20 12:46	08/19/20 23:41	75-25-2	
Bromomethane	**<1.9**	ug/kg	5.0	1.9	1	08/19/20 12:46	08/19/20 23:41	74-83-9	~~1c~~ UJ
2-Butanone (MEK)	**<0.92**	ug/kg	10.1	0.92	1	08/19/20 12:46	08/19/20 23:41	78-93-3	
Carbon disulfide	**<1.4**	ug/kg	5.0	1.4	1	08/19/20 12:46	08/19/20 23:41	75-15-0	
Carbon tetrachloride	**<1.7**	ug/kg	5.0	1.7	1	08/19/20 12:46	08/19/20 23:41	56-23-5	
Chlorobenzene	**<0.79**	ug/kg	5.0	0.79	1	08/19/20 12:46	08/19/20 23:41	108-90-7	
Chloroethane	**<2.1**	ug/kg	5.0	2.1	1	08/19/20 12:46	08/19/20 23:41	75-00-3	
Chloroform	**<1.5**	ug/kg	5.0	1.5	1	08/19/20 12:46	08/19/20 23:41	67-66-3	
Chloromethane	**<1.7**	ug/kg	5.0	1.7	1	08/19/20 12:46	08/19/20 23:41	74-87-3	
Cyclohexane	**<1.9**	ug/kg	10.1	1.9	1	08/19/20 12:46	08/19/20 23:41	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.2**	ug/kg	5.0	1.2	1	08/19/20 12:46	08/19/20 23:41	96-12-8	
Dibromochloromethane	**<0.80**	ug/kg	5.0	0.80	1	08/19/20 12:46	08/19/20 23:41	124-48-1	
1,2-Dibromoethane (EDB)	**<0.81**	ug/kg	5.0	0.81	1	08/19/20 12:46	08/19/20 23:41	106-93-4	
1,2-Dichlorobenzene	**<0.59**	ug/kg	5.0	0.59	1	08/19/20 12:46	08/19/20 23:41	95-50-1	
1,3-Dichlorobenzene	**<0.66**	ug/kg	5.0	0.66	1	08/19/20 12:46	08/19/20 23:41	541-73-1	
1,4-Dichlorobenzene	**<0.72**	ug/kg	5.0	0.72	1	08/19/20 12:46	08/19/20 23:41	106-46-7	
Dichlorodifluoromethane	**<2.7**	ug/kg	5.0	2.7	1	08/19/20 12:46	08/19/20 23:41	75-71-8	
1,1-Dichloroethane	**<1.3**	ug/kg	5.0	1.3	1	08/19/20 12:46	08/19/20 23:41	75-34-3	
1,2-Dichloroethane	**<1.3**	ug/kg	5.0	1.3	1	08/19/20 12:46	08/19/20 23:41	107-06-2	
1,1-Dichloroethene	**<1.9**	ug/kg	5.0	1.9	1	08/19/20 12:46	08/19/20 23:41	75-35-4	
cis-1,2-Dichloroethene	**<1.2**	ug/kg	5.0	1.2	1	08/19/20 12:46	08/19/20 23:41	156-59-2	
trans-1,2-Dichloroethene	**<1.3**	ug/kg	5.0	1.3	1	08/19/20 12:46	08/19/20 23:41	156-60-5	
1,2-Dichloropropane	**<0.73**	ug/kg	5.0	0.73	1	08/19/20 12:46	08/19/20 23:41	78-87-5	
cis-1,3-Dichloropropene	**<0.50**	ug/kg	5.0	0.50	1	08/19/20 12:46	08/19/20 23:41	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/kg	5.0	1.0	1	08/19/20 12:46	08/19/20 23:41	10061-02-6	
Ethylbenzene	**<1.1**	ug/kg	5.0	1.1	1	08/19/20 12:46	08/19/20 23:41	100-41-4	
2-Hexanone	**<0.99**	ug/kg	10.1	0.99	1	08/19/20 12:46	08/19/20 23:41	591-78-6	
Isopropylbenzene (Cumene)	**<1.2**	ug/kg	5.0	1.2	1	08/19/20 12:46	08/19/20 23:41	98-82-8	
Methyl acetate	**<1.1**	ug/kg	50.4	1.1	1	08/19/20 12:46	08/19/20 23:41	79-20-9	~~1c~~ UJ
Methylcyclohexane	**<3.1**	ug/kg	10.1	3.1	1	08/19/20 12:46	08/19/20 23:41	108-87-2	
Methylene Chloride	**<4.2**	ug/kg	5.0	4.2	1	08/19/20 12:46	08/19/20 23:41	75-09-2	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
4-Methyl-2-pentanone (MIBK)	**<1.1**	ug/kg	10.1	1.1	1	08/19/20 12:46	08/19/20 23:41	108-10-1	
Methyl-tert-butyl ether	**<0.68**	ug/kg	5.0	0.68	1	08/19/20 12:46	08/19/20 23:41	1634-04-4	
Styrene	**<1.5**	ug/kg	5.0	1.5	1	08/19/20 12:46	08/19/20 23:41	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.59**	ug/kg	5.0	0.59	1	08/19/20 12:46	08/19/20 23:41	79-34-5	
Tetrachloroethene	**<1.7**	ug/kg	5.0	1.7	1	08/19/20 12:46	08/19/20 23:41	127-18-4	
Toluene	**<1.0**	ug/kg	5.0	1.0	1	08/19/20 12:46	08/19/20 23:41	108-88-3	
1,2,3-Trichlorobenzene	**<0.96**	ug/kg	5.0	0.96	1	08/19/20 12:46	08/19/20 23:41	87-61-6	
1,2,4-Trichlorobenzene	**<1.3**	ug/kg	5.0	1.3	1	08/19/20 12:46	08/19/20 23:41	120-82-1	
1,1,1-Trichloroethane	**<1.5**	ug/kg	5.0	1.5	1	08/19/20 12:46	08/19/20 23:41	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/kg	5.0	1.0	1	08/19/20 12:46	08/19/20 23:41	79-00-5	
Trichloroethene	**<1.5**	ug/kg	5.0	1.5	1	08/19/20 12:46	08/19/20 23:41	79-01-6	
Trichlorofluoromethane	**<2.2**	ug/kg	5.0	2.2	1	08/19/20 12:46	08/19/20 23:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<2.2**	ug/kg	50.4	2.2	1	08/19/20 12:46	08/19/20 23:41	76-13-1	
1,2,4-Trimethylbenzene	**<2.5**	ug/kg	5.0	2.5	1	08/19/20 12:46	08/19/20 23:41	95-63-6	
1,3,5-Trimethylbenzene	**<2.0**	ug/kg	5.0	2.0	1	08/19/20 12:46	08/19/20 23:41	108-67-8	
Vinyl chloride	**<2.2**	ug/kg	5.0	2.2	1	08/19/20 12:46	08/19/20 23:41	75-01-4	
Xylene (Total)	**<3.2**	ug/kg	15.1	3.2	1	08/19/20 12:46	08/19/20 23:41	1330-20-7	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	08/19/20 12:46	08/19/20 23:41	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	08/19/20 12:46	08/19/20 23:41	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	08/19/20 12:46	08/19/20 23:41	17060-07-0	
Dibromofluoromethane (S)	105	%.	70-130		1	08/19/20 12:46	08/19/20 23:41	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
Acetone	**13500**	ug/L	1000	318	100		08/19/20 12:04	67-64-1	~~C7,ML~~ B
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/18/20 18:24	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/18/20 18:24	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/18/20 18:24	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/18/20 18:24	74-83-9	~~1c~~ UJ
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/18/20 18:24	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/18/20 18:24	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/18/20 18:24	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/18/20 18:24	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/18/20 18:24	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/18/20 18:24	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/18/20 18:24	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/18/20 18:24	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/18/20 18:24	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/18/20 18:24	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/18/20 18:24	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/18/20 18:24	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/18/20 18:24	541-73-1	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10									
	Pace Analytical Services - Greensburg									
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/18/20 18:24	106-46-7		
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/18/20 18:24	75-71-8		
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/18/20 18:24	75-34-3		
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/18/20 18:24	107-06-2		
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/18/20 18:24	75-35-4		
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/18/20 18:24	156-59-2		
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 18:24	156-60-5		
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/18/20 18:24	78-87-5		
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/18/20 18:24	10061-01-5		
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/18/20 18:24	10061-02-6		
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/18/20 18:24	100-41-4		
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/18/20 18:24	591-78-6		
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/18/20 18:24	98-82-8		
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/18/20 18:24	79-20-9	1c	UJ
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/18/20 18:24	108-87-2		
Methylene Chloride	**157**	ug/L	50.0	41.9	10		08/18/20 18:24	75-09-2	~~07~~	U*
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/18/20 18:24	108-10-1		
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/18/20 18:24	1634-04-4		
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/18/20 18:24	100-42-5		
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/18/20 18:24	79-34-5		
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/18/20 18:24	127-18-4		
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/18/20 18:24	108-88-3		
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/18/20 18:24	87-61-6		
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 18:24	120-82-1		
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/18/20 18:24	71-55-6		
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/18/20 18:24	79-00-5		
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/18/20 18:24	79-01-6		
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/18/20 18:24	75-69-4		
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/18/20 18:24	76-13-1		
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/18/20 18:24	95-63-6		
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/18/20 18:24	108-67-8		
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/18/20 18:24	75-01-4		
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/18/20 18:24	1330-20-7		
Surrogates										
1,2-Dichloroethane-d4 (S)	107	%.	70-130		10		08/18/20 18:24	17060-07-0		
Toluene-d8 (S)	96	%.	70-130		10		08/18/20 18:24	2037-26-5		
4-Bromofluorobenzene (S)	100	%.	70-130		10		08/18/20 18:24	460-00-4		
Dibromofluoromethane (S)	101	%.	70-130		10		08/18/20 18:24	1868-53-7		
Percent Moisture	Analytical Method: ASTM D2974-87									
	Pace Analytical Services - Greensburg									
Percent Moisture	**20.4**	%	0.10	0.10	1		08/14/20 11:01			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB01 (4-8) **Lab ID: 30377174002** Collected: 08/11/20 09:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**81.4**	%			1	08/19/20 14:47	08/19/20 14:55		

Sample: SB02 (0-2) **Lab ID: 30377174003** Collected: 08/11/20 10:20 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**12.3**	mg/kg	1.1	0.42	1	08/17/20 10:08	08/19/20 08:56	7440-38-2	
Barium	**102**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 08:56	7440-39-3	J-
Cadmium	**0.10J**	mg/kg	0.32	0.049	1	08/17/20 10:08	08/19/20 08:56	7440-43-9	J
Chromium	**26.1**	mg/kg	1.1	0.81	1	08/17/20 10:08	08/19/20 08:56	7440-47-3	
Lead	**16.9**	mg/kg	1.1	0.48	1	08/17/20 10:08	08/19/20 08:56	7439-92-1	J
Selenium	**<0.64**	mg/kg	1.7	0.64	1	08/17/20 10:08	08/19/20 08:56	7782-49-2	
Silver	**<0.091**	mg/kg	0.64	0.091	1	08/17/20 10:08	08/19/20 08:56	7440-22-4	
Zinc	**56.0**	mg/kg	2.1	1.2	1	08/17/20 10:08	08/19/20 08:56	7440-66-6	J
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.067J**	mg/kg	0.12	0.0061	1	08/17/20 11:58	08/17/20 21:53	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00285**	mg/kg	0.00742	0.00285	1	08/17/20 20:48	08/18/20 04:18	120-12-7	
Acenaphthene	**<0.00259**	mg/kg	0.00742	0.00259	1	08/17/20 20:48	08/18/20 04:18	83-32-9	
Acenaphthylene	**<0.00267**	mg/kg	0.00742	0.00267	1	08/17/20 20:48	08/18/20 04:18	208-96-8	
Benzo(a)anthracene	**0.00286J**	mg/kg	0.00742	0.00214	1	08/17/20 20:48	08/18/20 04:18	56-55-3	J
Benzo(a)pyrene	**0.00228J**	mg/kg	0.00742	0.00221	1	08/17/20 20:48	08/18/20 04:18	50-32-8	J
Benzo(b)fluoranthene	**0.00278J**	mg/kg	0.00742	0.00189	1	08/17/20 20:48	08/18/20 04:18	205-99-2	J
Benzo(g,h,i)perylene	**<0.00219**	mg/kg	0.00742	0.00219	1	08/17/20 20:48	08/18/20 04:18	191-24-2	
Benzo(k)fluoranthene	**<0.00266**	mg/kg	0.00742	0.00266	1	08/17/20 20:48	08/18/20 04:18	207-08-9	
Chrysene	**<0.00287**	mg/kg	0.00742	0.00287	1	08/17/20 20:48	08/18/20 04:18	218-01-9	
Dibenz(a,h)anthracene	**<0.00213**	mg/kg	0.00742	0.00213	1	08/17/20 20:48	08/18/20 04:18	53-70-3	
Fluoranthene	**0.00599J**	mg/kg	0.00742	0.00281	1	08/17/20 20:48	08/18/20 04:18	206-44-0	J
Fluorene	**<0.00254**	mg/kg	0.00742	0.00254	1	08/17/20 20:48	08/18/20 04:18	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00224**	mg/kg	0.00742	0.00224	1	08/17/20 20:48	08/18/20 04:18	193-39-5	
Naphthalene	**<0.00505**	mg/kg	0.0247	0.00505	1	08/17/20 20:48	08/18/20 04:18	91-20-3	
Phenanthrene	**0.00382J**	mg/kg	0.00742	0.00286	1	08/17/20 20:48	08/18/20 04:18	85-01-8	J
Pyrene	**0.00468J**	mg/kg	0.00742	0.00247	1	08/17/20 20:48	08/18/20 04:18	129-00-0	J
1-Methylnaphthalene	**<0.00556**	mg/kg	0.0247	0.00556	1	08/17/20 20:48	08/18/20 04:18	90-12-0	

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(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (0-2) **Lab ID: 30377174003** Collected: 08/11/20 10:20 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
2-Methylnaphthalene	**<0.00528**	mg/kg	0.0247	0.00528	1	08/17/20 20:48	08/18/20 04:18	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	96.6	%	14.0-149		1	08/17/20 20:48	08/18/20 04:18	4165-60-0	
2-Fluorobiphenyl (S)	89.9	%	34.0-125		1	08/17/20 20:48	08/18/20 04:18	321-60-8	
Terphenyl-d14 (S)	90.9	%	23.0-120		1	08/17/20 20:48	08/18/20 04:18	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**19.2**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**80.8**	%			1	08/19/20 14:47	08/19/20 14:55		

Sample: SB02 (0-2)-FD **Lab ID: 30377174004** Collected: 08/11/20 10:20 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**11.0**	mg/kg	1.1	0.42	1	08/17/20 10:08	08/19/20 08:59	7440-38-2	
Barium	**105**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 08:59	7440-39-3	J-
Cadmium	**0.094J**	mg/kg	0.32	0.049	1	08/17/20 10:08	08/19/20 08:59	7440-43-9	J
Chromium	**27.3**	mg/kg	1.1	0.81	1	08/17/20 10:08	08/19/20 08:59	7440-47-3	
Lead	**15.9**	mg/kg	1.1	0.48	1	08/17/20 10:08	08/19/20 08:59	7439-92-1	J
Selenium	**<0.64**	mg/kg	1.7	0.64	1	08/17/20 10:08	08/19/20 08:59	7782-49-2	
Silver	**<0.091**	mg/kg	0.64	0.091	1	08/17/20 10:08	08/19/20 08:59	7440-22-4	
Zinc	**55.4**	mg/kg	2.1	1.2	1	08/17/20 10:08	08/19/20 08:59	7440-66-6	J
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A								
	Pace Analytical Services - Greensburg								
Mercury	**0.088J**	mg/kg	0.12	0.0061	1	08/17/20 11:58	08/17/20 21:54	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**0.00472J**	mg/kg	0.00768	0.00294	1	08/17/20 20:48	08/18/20 04:39	120-12-7	J
Acenaphthene	**<0.00267**	mg/kg	0.00768	0.00267	1	08/17/20 20:48	08/18/20 04:39	83-32-9	
Acenaphthylene	**<0.00276**	mg/kg	0.00768	0.00276	1	08/17/20 20:48	08/18/20 04:39	208-96-8	
Benzo(a)anthracene	**0.00652J**	mg/kg	0.00768	0.00221	1	08/17/20 20:48	08/18/20 04:39	56-55-3	J
Benzo(a)pyrene	**0.00450J**	mg/kg	0.00768	0.00229	1	08/17/20 20:48	08/18/20 04:39	50-32-8	J
Benzo(b)fluoranthene	**0.00591J**	mg/kg	0.00768	0.00196	1	08/17/20 20:48	08/18/20 04:39	205-99-2	J

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (0-2)-FD **Lab ID: 30377174004** Collected: 08/11/20 10:20 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Benzo(g,h,i)perylene	**0.00289J**	mg/kg	0.00768	0.00226	1	08/17/20 20:48	08/18/20 04:39	191-24-2	J
Benzo(k)fluoranthene	**<0.00275**	mg/kg	0.00768	0.00275	1	08/17/20 20:48	08/18/20 04:39	207-08-9	
Chrysene	**0.00559J**	mg/kg	0.00768	0.00297	1	08/17/20 20:48	08/18/20 04:39	218-01-9	J
Dibenz(a,h)anthracene	**<0.00220**	mg/kg	0.00768	0.00220	1	08/17/20 20:48	08/18/20 04:39	53-70-3	
Fluoranthene	**0.0146**	mg/kg	0.00768	0.00290	1	08/17/20 20:48	08/18/20 04:39	206-44-0	
Fluorene	**0.00271J**	mg/kg	0.00768	0.00262	1	08/17/20 20:48	08/18/20 04:39	86-73-7	J
Indeno(1,2,3-cd)pyrene	**0.00271J**	mg/kg	0.00768	0.00232	1	08/17/20 20:48	08/18/20 04:39	193-39-5	J
Naphthalene	**<0.00522**	mg/kg	0.0256	0.00522	1	08/17/20 20:48	08/18/20 04:39	91-20-3	
Phenanthrene	**0.0159**	mg/kg	0.00768	0.00296	1	08/17/20 20:48	08/18/20 04:39	85-01-8	
Pyrene	**0.0109**	mg/kg	0.00768	0.00256	1	08/17/20 20:48	08/18/20 04:39	129-00-0	
1-Methylnaphthalene	**<0.00574**	mg/kg	0.0256	0.00574	1	08/17/20 20:48	08/18/20 04:39	90-12-0	
2-Methylnaphthalene	**<0.00546**	mg/kg	0.0256	0.00546	1	08/17/20 20:48	08/18/20 04:39	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	97.4	%	14.0-149		1	08/17/20 20:48	08/18/20 04:39	4165-60-0	
2-Fluorobiphenyl (S)	90.3	%	34.0-125		1	08/17/20 20:48	08/18/20 04:39	321-60-8	
Terphenyl-d14 (S)	88.9	%	23.0-120		1	08/17/20 20:48	08/18/20 04:39	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**19.3**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**78.2**	%			1	08/19/20 14:47	08/19/20 14:55		

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**4.4**	mg/kg	1.3	0.52	1	08/17/20 10:08	08/19/20 09:02	7440-38-2	
Barium	**145**	mg/kg	2.6	0.17	1	08/17/20 10:08	08/19/20 09:02	7440-39-3	J-
Cadmium	**0.10J**	mg/kg	0.40	0.061	1	08/17/20 10:08	08/19/20 09:02	7440-43-9	J
Chromium	**26.9**	mg/kg	1.3	1.0	1	08/17/20 10:08	08/19/20 09:02	7440-47-3	
Lead	**19.5**	mg/kg	1.3	0.60	1	08/17/20 10:08	08/19/20 09:02	7439-92-1	J
Selenium	**<0.79**	mg/kg	2.1	0.79	1	08/17/20 10:08	08/19/20 09:02	7782-49-2	
Silver	**<0.11**	mg/kg	0.79	0.11	1	08/17/20 10:08	08/19/20 09:02	7440-22-4	
Zinc	**65.3**	mg/kg	2.6	1.4	1	08/17/20 10:08	08/19/20 09:02	7440-66-6	J

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
	Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 9.17								
	Pace Analytical Services - Greensburg								
Arsenic	**0.0036J**	mg/L	0.025	0.0033	1	08/19/20 12:07	08/21/20 08:28	7440-38-2	2c J
Barium	**0.16**	mg/L	0.050	0.00055	1	08/19/20 12:07	08/21/20 08:28	7440-39-3	2c
Cadmium	**0.19**	mg/L	0.015	0.00027	1	08/19/20 12:07	08/21/20 08:28	7440-43-9	2c
Chromium	**0.025**	mg/L	0.025	0.00067	1	08/19/20 12:07	08/21/20 08:28	7440-47-3	2c
Lead	**0.012J**	mg/L	0.025	0.0031	1	08/19/20 12:07	08/21/20 08:28	7439-92-1	2c J
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/19/20 12:07	08/21/20 08:28	7782-49-2	2c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/19/20 12:07	08/21/20 08:28	7440-22-4	2c
Zinc	**0.055**	mg/L	0.025	0.0034	1	08/19/20 12:07	08/21/20 08:28	7440-66-6	2c
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
	Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 9.17								
	Pace Analytical Services - Greensburg								
Mercury	**0.080J**	ug/L	1.0	0.030	1	08/19/20 14:17	08/19/20 22:40	7439-97-6	B U*
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A								
	Pace Analytical Services - Greensburg								
Mercury	**0.065J**	mg/kg	0.13	0.0066	1	08/17/20 11:58	08/17/20 21:56	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**<0.00310**	mg/kg	0.00808	0.00310	1	08/17/20 20:48	08/18/20 05:00	120-12-7	
Acenaphthene	**<0.00282**	mg/kg	0.00808	0.00282	1	08/17/20 20:48	08/18/20 05:00	83-32-9	
Acenaphthylene	**<0.00291**	mg/kg	0.00808	0.00291	1	08/17/20 20:48	08/18/20 05:00	208-96-8	
Benzo(a)anthracene	**<0.00233**	mg/kg	0.00808	0.00233	1	08/17/20 20:48	08/18/20 05:00	56-55-3	
Benzo(a)pyrene	**<0.00241**	mg/kg	0.00808	0.00241	1	08/17/20 20:48	08/18/20 05:00	50-32-8	
Benzo(b)fluoranthene	**<0.00206**	mg/kg	0.00808	0.00206	1	08/17/20 20:48	08/18/20 05:00	205-99-2	
Benzo(g,h,i)perylene	**<0.00238**	mg/kg	0.00808	0.00238	1	08/17/20 20:48	08/18/20 05:00	191-24-2	
Benzo(k)fluoranthene	**<0.00290**	mg/kg	0.00808	0.00290	1	08/17/20 20:48	08/18/20 05:00	207-08-9	
Chrysene	**<0.00312**	mg/kg	0.00808	0.00312	1	08/17/20 20:48	08/18/20 05:00	218-01-9	
Dibenz(a,h)anthracene	**<0.00232**	mg/kg	0.00808	0.00232	1	08/17/20 20:48	08/18/20 05:00	53-70-3	
Fluoranthene	**<0.00306**	mg/kg	0.00808	0.00306	1	08/17/20 20:48	08/18/20 05:00	206-44-0	
Fluorene	**<0.00276**	mg/kg	0.00808	0.00276	1	08/17/20 20:48	08/18/20 05:00	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00244**	mg/kg	0.00808	0.00244	1	08/17/20 20:48	08/18/20 05:00	193-39-5	
Naphthalene	**<0.00550**	mg/kg	0.0269	0.00550	1	08/17/20 20:48	08/18/20 05:00	91-20-3	
Phenanthrene	**<0.00311**	mg/kg	0.00808	0.00311	1	08/17/20 20:48	08/18/20 05:00	85-01-8	
Pyrene	**<0.00269**	mg/kg	0.00808	0.00269	1	08/17/20 20:48	08/18/20 05:00	129-00-0	
1-Methylnaphthalene	**<0.00605**	mg/kg	0.0269	0.00605	1	08/17/20 20:48	08/18/20 05:00	90-12-0	
2-Methylnaphthalene	**<0.00575**	mg/kg	0.0269	0.00575	1	08/17/20 20:48	08/18/20 05:00	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	107	%	14.0-149		1	08/17/20 20:48	08/18/20 05:00	4165-60-0	
2-Fluorobiphenyl (S)	98.5	%	34.0-125		1	08/17/20 20:48	08/18/20 05:00	321-60-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Surrogates									
Terphenyl-d14 (S)	98.2	%	23.0-120		1	08/17/20 20:48	08/18/20 05:00	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 8.28								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:07	120-12-7	UJ
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:07	83-32-9	UJ
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 12:07	208-96-8	UJ
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 12:07	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:07	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 12:07	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:07	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 12:07	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 12:07	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 12:07	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 12:07	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 12:07	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 12:07	91-20-3	
Phenanthrene	**0.0425J**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 12:07	85-01-8	J J
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:07	129-00-0	UJ
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 12:07	90-12-0	UJ
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 12:07	91-57-6	UJ
Surrogates									
Nitrobenzene-d5 (S)	99.5	%	31.0-160		2	08/21/20 07:13	08/21/20 12:07	4165-60-0	
2-Fluorobiphenyl (S)	89.0	%	48.0-148		2	08/21/20 07:13	08/21/20 12:07	321-60-8	
Terphenyl-d14 (S)	25.8	%	37.0-146		2	08/21/20 07:13	08/21/20 12:07	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**70.0**	ug/kg	11.3	3.6	1	08/19/20 12:46	08/20/20 00:07	67-64-1	
Benzene	**<0.98**	ug/kg	5.7	0.98	1	08/19/20 12:46	08/20/20 00:07	71-43-2	
Bromodichloromethane	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:07	75-27-4	
Bromoform	**<0.75**	ug/kg	5.7	0.75	1	08/19/20 12:46	08/20/20 00:07	75-25-2	
Bromomethane	**<2.1**	ug/kg	5.7	2.1	1	08/19/20 12:46	08/20/20 00:07	74-83-9	~~1c~~ UJ
2-Butanone (MEK)	**<1.0**	ug/kg	11.3	1.0	1	08/19/20 12:46	08/20/20 00:07	78-93-3	
Carbon disulfide	**<1.6**	ug/kg	5.7	1.6	1	08/19/20 12:46	08/20/20 00:07	75-15-0	
Carbon tetrachloride	**<1.9**	ug/kg	5.7	1.9	1	08/19/20 12:46	08/20/20 00:07	56-23-5	
Chlorobenzene	**<0.88**	ug/kg	5.7	0.88	1	08/19/20 12:46	08/20/20 00:07	108-90-7	
Chloroethane	**<2.4**	ug/kg	5.7	2.4	1	08/19/20 12:46	08/20/20 00:07	75-00-3	
Chloroform	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:07	67-66-3	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Chloromethane	**<1.9**	ug/kg	5.7	1.9	1	08/19/20 12:46	08/20/20 00:07	74-87-3	
Cyclohexane	**<2.1**	ug/kg	11.3	2.1	1	08/19/20 12:46	08/20/20 00:07	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:07	96-12-8	
Dibromochloromethane	**<0.89**	ug/kg	5.7	0.89	1	08/19/20 12:46	08/20/20 00:07	124-48-1	
1,2-Dibromoethane (EDB)	**<0.90**	ug/kg	5.7	0.90	1	08/19/20 12:46	08/20/20 00:07	106-93-4	
1,2-Dichlorobenzene	**<0.67**	ug/kg	5.7	0.67	1	08/19/20 12:46	08/20/20 00:07	95-50-1	
1,3-Dichlorobenzene	**<0.73**	ug/kg	5.7	0.73	1	08/19/20 12:46	08/20/20 00:07	541-73-1	
1,4-Dichlorobenzene	**<0.80**	ug/kg	5.7	0.80	1	08/19/20 12:46	08/20/20 00:07	106-46-7	
Dichlorodifluoromethane	**<3.1**	ug/kg	5.7	3.1	1	08/19/20 12:46	08/20/20 00:07	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:07	75-34-3	
1,2-Dichloroethane	**<1.5**	ug/kg	5.7	1.5	1	08/19/20 12:46	08/20/20 00:07	107-06-2	
1,1-Dichloroethene	**<2.1**	ug/kg	5.7	2.1	1	08/19/20 12:46	08/20/20 00:07	75-35-4	
cis-1,2-Dichloroethene	**<1.3**	ug/kg	5.7	1.3	1	08/19/20 12:46	08/20/20 00:07	156-59-2	
trans-1,2-Dichloroethene	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:07	156-60-5	
1,2-Dichloropropane	**<0.81**	ug/kg	5.7	0.81	1	08/19/20 12:46	08/20/20 00:07	78-87-5	
cis-1,3-Dichloropropene	**<0.57**	ug/kg	5.7	0.57	1	08/19/20 12:46	08/20/20 00:07	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:07	10061-02-6	
Ethylbenzene	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:07	100-41-4	
2-Hexanone	**<1.1**	ug/kg	11.3	1.1	1	08/19/20 12:46	08/20/20 00:07	591-78-6	
Isopropylbenzene (Cumene)	**<1.3**	ug/kg	5.7	1.3	1	08/19/20 12:46	08/20/20 00:07	98-82-8	
Methyl acetate	**<1.2**	ug/kg	56.5	1.2	1	08/19/20 12:46	08/20/20 00:07	79-20-9	1e UJ
Methylcyclohexane	**<3.5**	ug/kg	11.3	3.5	1	08/19/20 12:46	08/20/20 00:07	108-87-2	
Methylene Chloride	**<4.7**	ug/kg	5.7	4.7	1	08/19/20 12:46	08/20/20 00:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.3**	ug/kg	11.3	1.3	1	08/19/20 12:46	08/20/20 00:07	108-10-1	
Methyl-tert-butyl ether	**<0.76**	ug/kg	5.7	0.76	1	08/19/20 12:46	08/20/20 00:07	1634-04-4	
Styrene	**<1.6**	ug/kg	5.7	1.6	1	08/19/20 12:46	08/20/20 00:07	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.67**	ug/kg	5.7	0.67	1	08/19/20 12:46	08/20/20 00:07	79-34-5	
Tetrachloroethene	**<2.0**	ug/kg	5.7	2.0	1	08/19/20 12:46	08/20/20 00:07	127-18-4	
Toluene	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:07	108-88-3	
1,2,3-Trichlorobenzene	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:07	87-61-6	
1,2,4-Trichlorobenzene	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:07	120-82-1	
1,1,1-Trichloroethane	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:07	71-55-6	
1,1,2-Trichloroethane	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:07	79-00-5	
Trichloroethene	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:07	79-01-6	
Trichlorofluoromethane	**<2.4**	ug/kg	5.7	2.4	1	08/19/20 12:46	08/20/20 00:07	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<2.4**	ug/kg	56.5	2.4	1	08/19/20 12:46	08/20/20 00:07	76-13-1	
1,2,4-Trimethylbenzene	**<2.8**	ug/kg	5.7	2.8	1	08/19/20 12:46	08/20/20 00:07	95-63-6	
1,3,5-Trimethylbenzene	**<2.3**	ug/kg	5.7	2.3	1	08/19/20 12:46	08/20/20 00:07	108-67-8	
Vinyl chloride	**<2.4**	ug/kg	5.7	2.4	1	08/19/20 12:46	08/20/20 00:07	75-01-4	
Xylene (Total)	**<3.6**	ug/kg	17.0	3.6	1	08/19/20 12:46	08/20/20 00:07	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%.	70-130		1	08/19/20 12:46	08/20/20 00:07	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		1	08/19/20 12:46	08/20/20 00:07	460-00-4	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Surrogates									
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	08/19/20 12:46	08/20/20 00:07	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130		1	08/19/20 12:46	08/20/20 00:07	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
Acetone	**1470**	ug/L	100	31.8	10		08/18/20 19:42	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/18/20 19:42	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/18/20 19:42	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/18/20 19:42	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/18/20 19:42	74-83-9	1c UJ
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/18/20 19:42	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/18/20 19:42	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/18/20 19:42	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/18/20 19:42	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/18/20 19:42	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/18/20 19:42	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/18/20 19:42	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/18/20 19:42	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/18/20 19:42	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/18/20 19:42	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/18/20 19:42	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/18/20 19:42	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/18/20 19:42	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/18/20 19:42	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/18/20 19:42	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/18/20 19:42	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/18/20 19:42	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/18/20 19:42	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/18/20 19:42	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 19:42	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/18/20 19:42	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/18/20 19:42	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/18/20 19:42	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/18/20 19:42	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/18/20 19:42	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/18/20 19:42	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/18/20 19:42	79-20-9	1c UJ
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/18/20 19:42	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/18/20 19:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/18/20 19:42	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/18/20 19:42	1634-04-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB02 (14-15) **Lab ID: 30377174005** Collected: 08/11/20 10:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/18/20 19:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/18/20 19:42	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/18/20 19:42	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/18/20 19:42	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/18/20 19:42	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 19:42	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/18/20 19:42	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/18/20 19:42	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/18/20 19:42	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/18/20 19:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/18/20 19:42	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/18/20 19:42	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/18/20 19:42	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/18/20 19:42	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/18/20 19:42	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	111	%.	70-130		10		08/18/20 19:42	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		08/18/20 19:42	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		08/18/20 19:42	460-00-4	
Dibromofluoromethane (S)	105	%.	70-130		10		08/18/20 19:42	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**25.8**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**74.2**	%			1	08/19/20 14:47	08/19/20 14:55		

Sample: SB07 (0-2) **Lab ID: 30377174006** Collected: 08/11/20 11:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**12.9**	mg/kg	1.0	0.41	1	08/17/20 10:08	08/19/20 09:11	7440-38-2	
Barium	**296**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 09:11	7440-39-3	J-
Cadmium	**0.16J**	mg/kg	0.31	0.048	1	08/17/20 10:08	08/19/20 09:11	7440-43-9	J
Chromium	**23.5**	mg/kg	1.0	0.79	1	08/17/20 10:08	08/19/20 09:11	7440-47-3	
Lead	**14.8**	mg/kg	1.0	0.47	1	08/17/20 10:08	08/19/20 09:11	7439-92-1	J

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (0-2) **Lab ID: 30377174006** Collected: 08/11/20 11:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Selenium	**<0.63**	mg/kg	1.7	0.63	1	08/17/20 10:08	08/19/20 09:11	7782-49-2	
Silver	**<0.089**	mg/kg	0.63	0.089	1	08/17/20 10:08	08/19/20 09:11	7440-22-4	
Zinc	**55.9**	mg/kg	2.1	1.1	1	08/17/20 10:08	08/19/20 09:11	7440-66-6	J
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.092J**	mg/kg	0.11	0.0054	1	08/17/20 11:58	08/17/20 22:02	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**0.00673J**	mg/kg	0.00704	0.00270	1	08/17/20 20:48	08/18/20 05:21	120-12-7	J
Acenaphthene	**0.00300J**	mg/kg	0.00704	0.00245	1	08/17/20 20:48	08/18/20 05:21	83-32-9	J
Acenaphthylene	**<0.00253**	mg/kg	0.00704	0.00253	1	08/17/20 20:48	08/18/20 05:21	208-96-8	
Benzo(a)anthracene	**0.0245**	mg/kg	0.00704	0.00203	1	08/17/20 20:48	08/18/20 05:21	56-55-3	
Benzo(a)pyrene	**0.0220**	mg/kg	0.00704	0.00210	1	08/17/20 20:48	08/18/20 05:21	50-32-8	
Benzo(b)fluoranthene	**0.0318**	mg/kg	0.00704	0.00179	1	08/17/20 20:48	08/18/20 05:21	205-99-2	
Benzo(g,h,i)perylene	**0.0170**	mg/kg	0.00704	0.00208	1	08/17/20 20:48	08/18/20 05:21	191-24-2	
Benzo(k)fluoranthene	**0.0100**	mg/kg	0.00704	0.00252	1	08/17/20 20:48	08/18/20 05:21	207-08-9	
Chrysene	**0.0245**	mg/kg	0.00704	0.00272	1	08/17/20 20:48	08/18/20 05:21	218-01-9	
Dibenz(a,h)anthracene	**0.00441J**	mg/kg	0.00704	0.00202	1	08/17/20 20:48	08/18/20 05:21	53-70-3	J
Fluoranthene	**0.0536**	mg/kg	0.00704	0.00266	1	08/17/20 20:48	08/18/20 05:21	206-44-0	
Fluorene	**0.00278J**	mg/kg	0.00704	0.00240	1	08/17/20 20:48	08/18/20 05:21	86-73-7	J
Indeno(1,2,3-cd)pyrene	**0.0142**	mg/kg	0.00704	0.00212	1	08/17/20 20:48	08/18/20 05:21	193-39-5	
Naphthalene	**<0.00478**	mg/kg	0.0235	0.00478	1	08/17/20 20:48	08/18/20 05:21	91-20-3	
Phenanthrene	**0.0322**	mg/kg	0.00704	0.00271	1	08/17/20 20:48	08/18/20 05:21	85-01-8	
Pyrene	**0.0430**	mg/kg	0.00704	0.00235	1	08/17/20 20:48	08/18/20 05:21	129-00-0	
1-Methylnaphthalene	**<0.00526**	mg/kg	0.0235	0.00526	1	08/17/20 20:48	08/18/20 05:21	90-12-0	
2-Methylnaphthalene	**<0.00501**	mg/kg	0.0235	0.00501	1	08/17/20 20:48	08/18/20 05:21	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	89.7	%	14.0-149		1	08/17/20 20:48	08/18/20 05:21	4165-60-0	
2-Fluorobiphenyl (S)	84.9	%	34.0-125		1	08/17/20 20:48	08/18/20 05:21	321-60-8	
Terphenyl-d14 (S)	82.2	%	23.0-120		1	08/17/20 20:48	08/18/20 05:21	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**13.2**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**85.3**	%			1	08/19/20 14:57	08/19/20 15:05		

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(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24) **Lab ID: 30377174007** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**13.9**	mg/kg	1.3	0.52	1	08/17/20 10:08	08/19/20 09:13	7440-38-2	J
Barium	**71.6**	mg/kg	2.7	0.17	1	08/17/20 10:08	08/19/20 09:13	7440-39-3	J-
Cadmium	**0.11J**	mg/kg	0.40	0.061	1	08/17/20 10:08	08/19/20 09:13	7440-43-9	J
Chromium	**13.8**	mg/kg	1.3	1.0	1	08/17/20 10:08	08/19/20 09:13	7440-47-3	
Lead	**7.4**	mg/kg	1.3	0.60	1	08/17/20 10:08	08/19/20 09:13	7439-92-1	J
Selenium	**<0.80**	mg/kg	2.1	0.80	1	08/17/20 10:08	08/19/20 09:13	7782-49-2	
Silver	**<0.11**	mg/kg	0.80	0.11	1	08/17/20 10:08	08/19/20 09:13	7440-22-4	
Zinc	**36.6**	mg/kg	2.7	1.4	1	08/17/20 10:08	08/19/20 09:13	7440-66-6	J
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.75 Pace Analytical Services - Greensburg								
Arsenic	**0.0039J**	mg/L	0.025	0.0033	1	08/19/20 12:07	08/21/20 08:14	7440-38-2	2c J
Barium	**0.054**	mg/L	0.050	0.00055	1	08/19/20 12:07	08/21/20 08:14	7440-39-3	2c,B J
Cadmium	**0.00043J**	mg/L	0.015	0.00027	1	08/19/20 12:07	08/21/20 08:14	7440-43-9	2c U*
Chromium	**0.0082J**	mg/L	0.025	0.00067	1	08/19/20 12:07	08/21/20 08:14	7440-47-3	2c,B
Lead	**<0.0031**	mg/L	0.025	0.0031	1	08/19/20 12:07	08/21/20 08:14	7439-92-1	2c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/19/20 12:07	08/21/20 08:14	7782-49-2	2c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/19/20 12:07	08/21/20 08:14	7440-22-4	2c
Zinc	**0.015J**	mg/L	0.025	0.0034	1	08/19/20 12:07	08/21/20 08:14	7440-66-6	2c,B U*
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.75 Pace Analytical Services - Greensburg								
Mercury	**0.030J**	ug/L	1.0	0.030	1	08/19/20 14:17	08/19/20 22:33	7439-97-6	B U*
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.014J**	mg/kg	0.13	0.0065	1	08/17/20 11:58	08/17/20 22:04	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00305**	mg/kg	0.00796	0.00305	1	08/17/20 20:48	08/18/20 05:41	120-12-7	
Acenaphthene	**<0.00277**	mg/kg	0.00796	0.00277	1	08/17/20 20:48	08/18/20 05:41	83-32-9	
Acenaphthylene	**<0.00287**	mg/kg	0.00796	0.00287	1	08/17/20 20:48	08/18/20 05:41	208-96-8	
Benzo(a)anthracene	**<0.00230**	mg/kg	0.00796	0.00230	1	08/17/20 20:48	08/18/20 05:41	56-55-3	
Benzo(a)pyrene	**<0.00238**	mg/kg	0.00796	0.00238	1	08/17/20 20:48	08/18/20 05:41	50-32-8	
Benzo(b)fluoranthene	**<0.00203**	mg/kg	0.00796	0.00203	1	08/17/20 20:48	08/18/20 05:41	205-99-2	
Benzo(g,h,i)perylene	**<0.00235**	mg/kg	0.00796	0.00235	1	08/17/20 20:48	08/18/20 05:41	191-24-2	
Benzo(k)fluoranthene	**<0.00285**	mg/kg	0.00796	0.00285	1	08/17/20 20:48	08/18/20 05:41	207-08-9	
Chrysene	**<0.00308**	mg/kg	0.00796	0.00308	1	08/17/20 20:48	08/18/20 05:41	218-01-9	
Dibenz(a,h)anthracene	**<0.00228**	mg/kg	0.00796	0.00228	1	08/17/20 20:48	08/18/20 05:41	53-70-3	
Fluoranthene	**<0.00301**	mg/kg	0.00796	0.00301	1	08/17/20 20:48	08/18/20 05:41	206-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24) **Lab ID: 30377174007** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Fluorene	**<0.00272**	mg/kg	0.00796	0.00272	1	08/17/20 20:48	08/18/20 05:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00240**	mg/kg	0.00796	0.00240	1	08/17/20 20:48	08/18/20 05:41	193-39-5	
Naphthalene	**<0.00542**	mg/kg	0.0265	0.00542	1	08/17/20 20:48	08/18/20 05:41	91-20-3	
Phenanthrene	**<0.00307**	mg/kg	0.00796	0.00307	1	08/17/20 20:48	08/18/20 05:41	85-01-8	
Pyrene	**<0.00265**	mg/kg	0.00796	0.00265	1	08/17/20 20:48	08/18/20 05:41	129-00-0	
1-Methylnaphthalene	**<0.00596**	mg/kg	0.0265	0.00596	1	08/17/20 20:48	08/18/20 05:41	90-12-0	
2-Methylnaphthalene	**<0.00567**	mg/kg	0.0265	0.00567	1	08/17/20 20:48	08/18/20 05:41	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	94.9	%	14.0-149		1	08/17/20 20:48	08/18/20 05:41	4165-60-0	
2-Fluorobiphenyl (S)	93.7	%	34.0-125		1	08/17/20 20:48	08/18/20 05:41	321-60-8	
Terphenyl-d14 (S)	96.2	%	23.0-120		1	08/17/20 20:48	08/18/20 05:41	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.94								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:29	120-12-7	UJ
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:29	83-32-9	UJ
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 12:29	208-96-8	UJ
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 12:29	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:29	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 12:29	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:29	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 12:29	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 12:29	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 12:29	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 12:29	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:29	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 12:29	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 12:29	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 12:29	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:29	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 12:29	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 12:29	91-57-6	UJ
Surrogates									
Nitrobenzene-d5 (S)	93.0	%	31.0-160		2	08/21/20 07:13	08/21/20 12:29	4165-60-0	
2-Fluorobiphenyl (S)	79.0	%	48.0-148		2	08/21/20 07:13	08/21/20 12:29	321-60-8	
Terphenyl-d14 (S)	17.0	%	37.0-146		2	08/21/20 07:13	08/21/20 12:29	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**40.3**	ug/kg	12.5	4.0	1	08/19/20 12:46	08/20/20 00:33	67-64-1	
Benzene	**<1.1**	ug/kg	6.3	1.1	1	08/19/20 12:46	08/20/20 00:33	71-43-2	
Bromodichloromethane	**<1.4**	ug/kg	6.3	1.4	1	08/19/20 12:46	08/20/20 00:33	75-27-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24) **Lab ID: 30377174007** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Bromoform	**<0.83**	ug/kg	6.3	0.83	1	08/19/20 12:46	08/20/20 00:33	75-25-2	
Bromomethane	**<2.3**	ug/kg	6.3	2.3	1	08/19/20 12:46	08/20/20 00:33	74-83-9	1c UJ
2-Butanone (MEK)	**<1.1**	ug/kg	12.5	1.1	1	08/19/20 12:46	08/20/20 00:33	78-93-3	
Carbon disulfide	**<1.8**	ug/kg	6.3	1.8	1	08/19/20 12:46	08/20/20 00:33	75-15-0	
Carbon tetrachloride	**<2.2**	ug/kg	6.3	2.2	1	08/19/20 12:46	08/20/20 00:33	56-23-5	
Chlorobenzene	**<0.98**	ug/kg	6.3	0.98	1	08/19/20 12:46	08/20/20 00:33	108-90-7	
Chloroethane	**<2.6**	ug/kg	6.3	2.6	1	08/19/20 12:46	08/20/20 00:33	75-00-3	
Chloroform	**<1.9**	ug/kg	6.3	1.9	1	08/19/20 12:46	08/20/20 00:33	67-66-3	
Chloromethane	**<2.1**	ug/kg	6.3	2.1	1	08/19/20 12:46	08/20/20 00:33	74-87-3	
Cyclohexane	**<2.4**	ug/kg	12.5	2.4	1	08/19/20 12:46	08/20/20 00:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/kg	6.3	1.5	1	08/19/20 12:46	08/20/20 00:33	96-12-8	
Dibromochloromethane	**<0.99**	ug/kg	6.3	0.99	1	08/19/20 12:46	08/20/20 00:33	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/kg	6.3	1.0	1	08/19/20 12:46	08/20/20 00:33	106-93-4	
1,2-Dichlorobenzene	**<0.74**	ug/kg	6.3	0.74	1	08/19/20 12:46	08/20/20 00:33	95-50-1	
1,3-Dichlorobenzene	**<0.81**	ug/kg	6.3	0.81	1	08/19/20 12:46	08/20/20 00:33	541-73-1	
1,4-Dichlorobenzene	**<0.89**	ug/kg	6.3	0.89	1	08/19/20 12:46	08/20/20 00:33	106-46-7	
Dichlorodifluoromethane	**<3.4**	ug/kg	6.3	3.4	1	08/19/20 12:46	08/20/20 00:33	75-71-8	
1,1-Dichloroethane	**<1.6**	ug/kg	6.3	1.6	1	08/19/20 12:46	08/20/20 00:33	75-34-3	
1,2-Dichloroethane	**<1.6**	ug/kg	6.3	1.6	1	08/19/20 12:46	08/20/20 00:33	107-06-2	
1,1-Dichloroethene	**<2.3**	ug/kg	6.3	2.3	1	08/19/20 12:46	08/20/20 00:33	75-35-4	
cis-1,2-Dichloroethene	**<1.5**	ug/kg	6.3	1.5	1	08/19/20 12:46	08/20/20 00:33	156-59-2	
trans-1,2-Dichloroethene	**<1.6**	ug/kg	6.3	1.6	1	08/19/20 12:46	08/20/20 00:33	156-60-5	
1,2-Dichloropropane	**<0.90**	ug/kg	6.3	0.90	1	08/19/20 12:46	08/20/20 00:33	78-87-5	
cis-1,3-Dichloropropene	**<0.63**	ug/kg	6.3	0.63	1	08/19/20 12:46	08/20/20 00:33	10061-01-5	
trans-1,3-Dichloropropene	**<1.3**	ug/kg	6.3	1.3	1	08/19/20 12:46	08/20/20 00:33	10061-02-6	
Ethylbenzene	**<1.4**	ug/kg	6.3	1.4	1	08/19/20 12:46	08/20/20 00:33	100-41-4	
2-Hexanone	**<1.2**	ug/kg	12.5	1.2	1	08/19/20 12:46	08/20/20 00:33	591-78-6	
Isopropylbenzene (Cumene)	**<1.5**	ug/kg	6.3	1.5	1	08/19/20 12:46	08/20/20 00:33	98-82-8	
Methyl acetate	**<1.4**	ug/kg	62.6	1.4	1	08/19/20 12:46	08/20/20 00:33	79-20-9	1c UJ
Methylcyclohexane	**<3.9**	ug/kg	12.5	3.9	1	08/19/20 12:46	08/20/20 00:33	108-87-2	
Methylene Chloride	**<5.2**	ug/kg	6.3	5.2	1	08/19/20 12:46	08/20/20 00:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.4**	ug/kg	12.5	1.4	1	08/19/20 12:46	08/20/20 00:33	108-10-1	
Methyl-tert-butyl ether	**<0.84**	ug/kg	6.3	0.84	1	08/19/20 12:46	08/20/20 00:33	1634-04-4	
Styrene	**<1.8**	ug/kg	6.3	1.8	1	08/19/20 12:46	08/20/20 00:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.74**	ug/kg	6.3	0.74	1	08/19/20 12:46	08/20/20 00:33	79-34-5	
Tetrachloroethene	**<2.2**	ug/kg	6.3	2.2	1	08/19/20 12:46	08/20/20 00:33	127-18-4	
Toluene	**<1.2**	ug/kg	6.3	1.2	1	08/19/20 12:46	08/20/20 00:33	108-88-3	
1,2,3-Trichlorobenzene	**<1.2**	ug/kg	6.3	1.2	1	08/19/20 12:46	08/20/20 00:33	87-61-6	
1,2,4-Trichlorobenzene	**<1.6**	ug/kg	6.3	1.6	1	08/19/20 12:46	08/20/20 00:33	120-82-1	
1,1,1-Trichloroethane	**<1.9**	ug/kg	6.3	1.9	1	08/19/20 12:46	08/20/20 00:33	71-55-6	
1,1,2-Trichloroethane	**<1.2**	ug/kg	6.3	1.2	1	08/19/20 12:46	08/20/20 00:33	79-00-5	
Trichloroethene	**<1.8**	ug/kg	6.3	1.8	1	08/19/20 12:46	08/20/20 00:33	79-01-6	
Trichlorofluoromethane	**<2.7**	ug/kg	6.3	2.7	1	08/19/20 12:46	08/20/20 00:33	75-69-4	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24) **Lab ID: 30377174007** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1,2-Trichlorotrifluoroethane	**<2.7**	ug/kg	62.6	2.7	1	08/19/20 12:46	08/20/20 00:33	76-13-1	
1,2,4-Trimethylbenzene	**<3.1**	ug/kg	6.3	3.1	1	08/19/20 12:46	08/20/20 00:33	95-63-6	
1,3,5-Trimethylbenzene	**<2.5**	ug/kg	6.3	2.5	1	08/19/20 12:46	08/20/20 00:33	108-67-8	
Vinyl chloride	**<2.7**	ug/kg	6.3	2.7	1	08/19/20 12:46	08/20/20 00:33	75-01-4	
Xylene (Total)	**<4.0**	ug/kg	18.8	4.0	1	08/19/20 12:46	08/20/20 00:33	1330-20-7	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	08/19/20 12:46	08/20/20 00:33	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/19/20 12:46	08/20/20 00:33	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130		1	08/19/20 12:46	08/20/20 00:33	17060-07-0	
Dibromofluoromethane (S)	105	%.	70-130		1	08/19/20 12:46	08/20/20 00:33	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10 Pace Analytical Services - Greensburg								
Acetone	**72.4J**	ug/L	100	31.8	10		08/18/20 20:08	67-64-1	B U*
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/18/20 20:08	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/18/20 20:08	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/18/20 20:08	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/18/20 20:08	74-83-9	1c UJ
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/18/20 20:08	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/18/20 20:08	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/18/20 20:08	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/18/20 20:08	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/18/20 20:08	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/18/20 20:08	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/18/20 20:08	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/18/20 20:08	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/18/20 20:08	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/18/20 20:08	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/18/20 20:08	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/18/20 20:08	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/18/20 20:08	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/18/20 20:08	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/18/20 20:08	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/18/20 20:08	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/18/20 20:08	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/18/20 20:08	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/18/20 20:08	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 20:08	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/18/20 20:08	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/18/20 20:08	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/18/20 20:08	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/18/20 20:08	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/18/20 20:08	591-78-6	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24) **Lab ID: 30377174007** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/18/20 20:08	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/18/20 20:08	79-20-9	1c UJ
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/18/20 20:08	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/18/20 20:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/18/20 20:08	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/18/20 20:08	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/18/20 20:08	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/18/20 20:08	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/18/20 20:08	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/18/20 20:08	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/18/20 20:08	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 20:08	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/18/20 20:08	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/18/20 20:08	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/18/20 20:08	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/18/20 20:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/18/20 20:08	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/18/20 20:08	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/18/20 20:08	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/18/20 20:08	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/18/20 20:08	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%.	70-130		10		08/18/20 20:08	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		10		08/18/20 20:08	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		08/18/20 20:08	460-00-4	
Dibromofluoromethane (S)	103	%.	70-130		10		08/18/20 20:08	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**24.7**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**75.3**	%			1	08/19/20 14:57	08/19/20 15:05		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24)-FD **Lab ID: 30377174008** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**7.8**	mg/kg	1.3	0.49	1	08/17/20 10:08	08/19/20 09:16	7440-38-2	J
Barium	**113**	mg/kg	2.5	0.16	1	08/17/20 10:08	08/19/20 09:16	7440-39-3	J-
Cadmium	**0.12J**	mg/kg	0.38	0.058	1	08/17/20 10:08	08/19/20 09:16	7440-43-9	J
Chromium	**17.5**	mg/kg	1.3	0.96	1	08/17/20 10:08	08/19/20 09:16	7440-47-3	
Lead	**10.6**	mg/kg	1.3	0.57	1	08/17/20 10:08	08/19/20 09:16	7439-92-1	J
Selenium	**<0.76**	mg/kg	2.0	0.76	1	08/17/20 10:08	08/19/20 09:16	7782-49-2	
Silver	**<0.11**	mg/kg	0.76	0.11	1	08/17/20 10:08	08/19/20 09:16	7440-22-4	
Zinc	**49.3**	mg/kg	2.5	1.4	1	08/17/20 10:08	08/19/20 09:16	7440-66-6	J
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.7 Pace Analytical Services - Greensburg								
Arsenic	**0.0049J**	mg/L	0.025	0.0033	1	08/19/20 12:07	08/21/20 08:31	7440-38-2	2c J
Barium	**0.053**	mg/L	0.050	0.00055	1	08/19/20 12:07	08/21/20 08:31	7440-39-3	2c,B
Cadmium	**0.00034J**	mg/L	0.015	0.00027	1	08/19/20 12:07	08/21/20 08:31	7440-43-9	2c U*
Chromium	**0.0074J**	mg/L	0.025	0.00067	1	08/19/20 12:07	08/21/20 08:31	7440-47-3	2c,B J
Lead	**0.0036J**	mg/L	0.025	0.0031	1	08/19/20 12:07	08/21/20 08:31	7439-92-1	2c J
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/19/20 12:07	08/21/20 08:31	7782-49-2	2c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/19/20 12:07	08/21/20 08:31	7440-22-4	2c
Zinc	**0.014J**	mg/L	0.025	0.0034	1	08/19/20 12:07	08/21/20 08:31	7440-66-6	2c,B U*
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.7 Pace Analytical Services - Greensburg								
Mercury	**0.040J**	ug/L	1.0	0.030	1	08/19/20 14:17	08/19/20 22:45	7439-97-6	B U*
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.031J**	mg/kg	0.13	0.0062	1	08/17/20 11:58	08/17/20 22:06	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00288**	mg/kg	0.00752	0.00288	1	08/17/20 20:48	08/18/20 06:02	120-12-7	
Acenaphthene	**<0.00262**	mg/kg	0.00752	0.00262	1	08/17/20 20:48	08/18/20 06:02	83-32-9	
Acenaphthylene	**<0.00271**	mg/kg	0.00752	0.00271	1	08/17/20 20:48	08/18/20 06:02	208-96-8	
Benzo(a)anthracene	**<0.00217**	mg/kg	0.00752	0.00217	1	08/17/20 20:48	08/18/20 06:02	56-55-3	
Benzo(a)pyrene	**<0.00224**	mg/kg	0.00752	0.00224	1	08/17/20 20:48	08/18/20 06:02	50-32-8	
Benzo(b)fluoranthene	**<0.00192**	mg/kg	0.00752	0.00192	1	08/17/20 20:48	08/18/20 06:02	205-99-2	
Benzo(g,h,i)perylene	**<0.00222**	mg/kg	0.00752	0.00222	1	08/17/20 20:48	08/18/20 06:02	191-24-2	
Benzo(k)fluoranthene	**<0.00269**	mg/kg	0.00752	0.00269	1	08/17/20 20:48	08/18/20 06:02	207-08-9	
Chrysene	**<0.00291**	mg/kg	0.00752	0.00291	1	08/17/20 20:48	08/18/20 06:02	218-01-9	
Dibenz(a,h)anthracene	**<0.00216**	mg/kg	0.00752	0.00216	1	08/17/20 20:48	08/18/20 06:02	53-70-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24)-FD **Lab ID: 30377174008** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Fluoranthene	**<0.00285**	mg/kg	0.00752	0.00285	1	08/17/20 20:48	08/18/20 06:02	206-44-0	
Fluorene	**<0.00257**	mg/kg	0.00752	0.00257	1	08/17/20 20:48	08/18/20 06:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00227**	mg/kg	0.00752	0.00227	1	08/17/20 20:48	08/18/20 06:02	193-39-5	
Naphthalene	**<0.00511**	mg/kg	0.0251	0.00511	1	08/17/20 20:48	08/18/20 06:02	91-20-3	
Phenanthrene	**<0.00290**	mg/kg	0.00752	0.00290	1	08/17/20 20:48	08/18/20 06:02	85-01-8	
Pyrene	**<0.00251**	mg/kg	0.00752	0.00251	1	08/17/20 20:48	08/18/20 06:02	129-00-0	
1-Methylnaphthalene	**<0.00563**	mg/kg	0.0251	0.00563	1	08/17/20 20:48	08/18/20 06:02	90-12-0	
2-Methylnaphthalene	**<0.00535**	mg/kg	0.0251	0.00535	1	08/17/20 20:48	08/18/20 06:02	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	103	%	14.0-149		1	08/17/20 20:48	08/18/20 06:02	4165-60-0	
2-Fluorobiphenyl (S)	96.9	%	34.0-125		1	08/17/20 20:48	08/18/20 06:02	321-60-8	
Terphenyl-d14 (S)	97.6	%	23.0-120		1	08/17/20 20:48	08/18/20 06:02	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.82								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:50	120-12-7	UJ
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 12:50	83-32-9	UJ
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 12:50	208-96-8	UJ
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 12:50	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:50	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 12:50	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 12:50	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 12:50	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 12:50	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 12:50	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 12:50	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 12:50	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 12:50	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 12:50	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 12:50	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 12:50	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 12:50	91-57-6	UJ
Surrogates									
Nitrobenzene-d5 (S)	93.0	%	31.0-160		2	08/21/20 07:13	08/21/20 12:50	4165-60-0	
2-Fluorobiphenyl (S)	77.5	%	48.0-148		2	08/21/20 07:13	08/21/20 12:50	321-60-8	
Terphenyl-d14 (S)	30.6	%	37.0-146		2	08/21/20 07:13	08/21/20 12:50	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**22.2**	ug/kg	11.4	3.6	1	08/19/20 12:46	08/20/20 00:59	67-64-1	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24)-FD **Lab ID: 30377174008** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Benzene	**<0.99**	ug/kg	5.7	0.99	1	08/19/20 12:46	08/20/20 00:59	71-43-2	
Bromodichloromethane	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:59	75-27-4	
Bromoform	**<0.75**	ug/kg	5.7	0.75	1	08/19/20 12:46	08/20/20 00:59	75-25-2	
Bromomethane	**<2.1**	ug/kg	5.7	2.1	1	08/19/20 12:46	08/20/20 00:59	74-83-9	1c UJ
2-Butanone (MEK)	**<1.0**	ug/kg	11.4	1.0	1	08/19/20 12:46	08/20/20 00:59	78-93-3	
Carbon disulfide	**3.3J**	ug/kg	5.7	1.6	1	08/19/20 12:46	08/20/20 00:59	75-15-0	
Carbon tetrachloride	**<2.0**	ug/kg	5.7	2.0	1	08/19/20 12:46	08/20/20 00:59	56-23-5	
Chlorobenzene	**<0.89**	ug/kg	5.7	0.89	1	08/19/20 12:46	08/20/20 00:59	108-90-7	
Chloroethane	**<2.4**	ug/kg	5.7	2.4	1	08/19/20 12:46	08/20/20 00:59	75-00-3	
Chloroform	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:59	67-66-3	
Chloromethane	**<1.9**	ug/kg	5.7	1.9	1	08/19/20 12:46	08/20/20 00:59	74-87-3	
Cyclohexane	**<2.1**	ug/kg	11.4	2.1	1	08/19/20 12:46	08/20/20 00:59	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:59	96-12-8	
Dibromochloromethane	**<0.90**	ug/kg	5.7	0.90	1	08/19/20 12:46	08/20/20 00:59	124-48-1	
1,2-Dibromoethane (EDB)	**<0.91**	ug/kg	5.7	0.91	1	08/19/20 12:46	08/20/20 00:59	106-93-4	
1,2-Dichlorobenzene	**<0.67**	ug/kg	5.7	0.67	1	08/19/20 12:46	08/20/20 00:59	95-50-1	
1,3-Dichlorobenzene	**<0.74**	ug/kg	5.7	0.74	1	08/19/20 12:46	08/20/20 00:59	541-73-1	
1,4-Dichlorobenzene	**<0.81**	ug/kg	5.7	0.81	1	08/19/20 12:46	08/20/20 00:59	106-46-7	
Dichlorodifluoromethane	**<3.1**	ug/kg	5.7	3.1	1	08/19/20 12:46	08/20/20 00:59	75-71-8	
1,1-Dichloroethane	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:59	75-34-3	
1,2-Dichloroethane	**<1.5**	ug/kg	5.7	1.5	1	08/19/20 12:46	08/20/20 00:59	107-06-2	
1,1-Dichloroethene	**<2.1**	ug/kg	5.7	2.1	1	08/19/20 12:46	08/20/20 00:59	75-35-4	
cis-1,2-Dichloroethene	**<1.3**	ug/kg	5.7	1.3	1	08/19/20 12:46	08/20/20 00:59	156-59-2	
trans-1,2-Dichloroethene	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:59	156-60-5	
1,2-Dichloropropane	**<0.82**	ug/kg	5.7	0.82	1	08/19/20 12:46	08/20/20 00:59	78-87-5	
cis-1,3-Dichloropropene	**<0.57**	ug/kg	5.7	0.57	1	08/19/20 12:46	08/20/20 00:59	10061-01-5	
trans-1,3-Dichloropropene	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:59	10061-02-6	
Ethylbenzene	**<1.2**	ug/kg	5.7	1.2	1	08/19/20 12:46	08/20/20 00:59	100-41-4	
2-Hexanone	**<1.1**	ug/kg	11.4	1.1	1	08/19/20 12:46	08/20/20 00:59	591-78-6	
Isopropylbenzene (Cumene)	**<1.3**	ug/kg	5.7	1.3	1	08/19/20 12:46	08/20/20 00:59	98-82-8	
Methyl acetate	**<1.2**	ug/kg	56.8	1.2	1	08/19/20 12:46	08/20/20 00:59	79-20-9	1c UJ
Methylcyclohexane	**<3.5**	ug/kg	11.4	3.5	1	08/19/20 12:46	08/20/20 00:59	108-87-2	
Methylene Chloride	**<4.8**	ug/kg	5.7	4.8	1	08/19/20 12:46	08/20/20 00:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.3**	ug/kg	11.4	1.3	1	08/19/20 12:46	08/20/20 00:59	108-10-1	
Methyl-tert-butyl ether	**<0.76**	ug/kg	5.7	0.76	1	08/19/20 12:46	08/20/20 00:59	1634-04-4	
Styrene	**<1.6**	ug/kg	5.7	1.6	1	08/19/20 12:46	08/20/20 00:59	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.67**	ug/kg	5.7	0.67	1	08/19/20 12:46	08/20/20 00:59	79-34-5	
Tetrachloroethene	**<2.0**	ug/kg	5.7	2.0	1	08/19/20 12:46	08/20/20 00:59	127-18-4	
Toluene	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:59	108-88-3	
1,2,3-Trichlorobenzene	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:59	87-61-6	
1,2,4-Trichlorobenzene	**<1.4**	ug/kg	5.7	1.4	1	08/19/20 12:46	08/20/20 00:59	120-82-1	
1,1,1-Trichloroethane	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:59	71-55-6	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24)-FD **Lab ID: 30377174008** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
1,1,2-Trichloroethane	**<1.1**	ug/kg	5.7	1.1	1	08/19/20 12:46	08/20/20 00:59	79-00-5	
Trichloroethene	**<1.7**	ug/kg	5.7	1.7	1	08/19/20 12:46	08/20/20 00:59	79-01-6	
Trichlorofluoromethane	**<2.5**	ug/kg	5.7	2.5	1	08/19/20 12:46	08/20/20 00:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<2.4**	ug/kg	56.8	2.4	1	08/19/20 12:46	08/20/20 00:59	76-13-1	
1,2,4-Trimethylbenzene	**<2.8**	ug/kg	5.7	2.8	1	08/19/20 12:46	08/20/20 00:59	95-63-6	
1,3,5-Trimethylbenzene	**<2.3**	ug/kg	5.7	2.3	1	08/19/20 12:46	08/20/20 00:59	108-67-8	
Vinyl chloride	**<2.4**	ug/kg	5.7	2.4	1	08/19/20 12:46	08/20/20 00:59	75-01-4	
Xylene (Total)	**<3.6**	ug/kg	17.0	3.6	1	08/19/20 12:46	08/20/20 00:59	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%.	70-130		1	08/19/20 12:46	08/20/20 00:59	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/19/20 12:46	08/20/20 00:59	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	08/19/20 12:46	08/20/20 00:59	17060-07-0	
Dibromofluoromethane (S)	106	%.	70-130		1	08/19/20 12:46	08/20/20 00:59	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
Acetone	**52.9J**	ug/L	100	31.8	10		08/18/20 20:33	67-64-1	B U*
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/18/20 20:33	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/18/20 20:33	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/18/20 20:33	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/18/20 20:33	74-83-9	Lc UJ
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/18/20 20:33	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/18/20 20:33	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/18/20 20:33	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/18/20 20:33	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/18/20 20:33	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/18/20 20:33	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/18/20 20:33	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/18/20 20:33	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/18/20 20:33	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/18/20 20:33	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/18/20 20:33	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/18/20 20:33	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/18/20 20:33	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/18/20 20:33	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/18/20 20:33	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/18/20 20:33	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/18/20 20:33	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/18/20 20:33	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/18/20 20:33	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 20:33	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/18/20 20:33	78-87-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB07 (20-24)-FD **Lab ID: 30377174008** Collected: 08/11/20 12:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments:
- Client sample ID on container did not match COC; client was notified.
- Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/17/20 09:10								
	Pace Analytical Services - Greensburg								
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/18/20 20:33	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/18/20 20:33	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/18/20 20:33	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/18/20 20:33	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/18/20 20:33	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/18/20 20:33	79-20-9	~~1c~~ UJ
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/18/20 20:33	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/18/20 20:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/18/20 20:33	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/18/20 20:33	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/18/20 20:33	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/18/20 20:33	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/18/20 20:33	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/18/20 20:33	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/18/20 20:33	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/18/20 20:33	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/18/20 20:33	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/18/20 20:33	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/18/20 20:33	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/18/20 20:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/18/20 20:33	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/18/20 20:33	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/18/20 20:33	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/18/20 20:33	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/18/20 20:33	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	108	%.	70-130		10		08/18/20 20:33	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		08/18/20 20:33	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		08/18/20 20:33	460-00-4	
Dibromofluoromethane (S)	105	%.	70-130		10		08/18/20 20:33	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**23.7**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**79.8**	%			1	08/19/20 14:57	08/19/20 15:05		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (0-2) **Lab ID: 30377174009** Collected: 08/11/20 13:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**5.1**	mg/kg	1.1	0.44	1	08/17/20 10:08	08/19/20 09:19	7440-38-2	
Barium	**92.5**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 09:19	7440-39-3	J-
Cadmium	**0.069J**	mg/kg	0.34	0.052	1	08/17/20 10:08	08/19/20 09:19	7440-43-9	
Chromium	**22.5**	mg/kg	1.1	0.85	1	08/17/20 10:08	08/19/20 09:19	7440-47-3	
Lead	**21.1**	mg/kg	1.1	0.51	1	08/17/20 10:08	08/19/20 09:19	7439-92-1	J
Selenium	**<0.67**	mg/kg	1.8	0.67	1	08/17/20 10:08	08/19/20 09:19	7782-49-2	
Silver	**<0.096**	mg/kg	0.67	0.096	1	08/17/20 10:08	08/19/20 09:19	7440-22-4	
Zinc	**55.0**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 09:19	7440-66-6	J
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.065J**	mg/kg	0.12	0.0057	1	08/17/20 11:58	08/17/20 22:07	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00297**	mg/kg	0.00775	0.00297	1	08/17/20 20:48	08/18/20 06:23	120-12-7	
Acenaphthene	**<0.00270**	mg/kg	0.00775	0.00270	1	08/17/20 20:48	08/18/20 06:23	83-32-9	
Acenaphthylene	**<0.00279**	mg/kg	0.00775	0.00279	1	08/17/20 20:48	08/18/20 06:23	208-96-8	
Benzo(a)anthracene	**<0.00224**	mg/kg	0.00775	0.00224	1	08/17/20 20:48	08/18/20 06:23	56-55-3	
Benzo(a)pyrene	**<0.00231**	mg/kg	0.00775	0.00231	1	08/17/20 20:48	08/18/20 06:23	50-32-8	
Benzo(b)fluoranthene	**<0.00198**	mg/kg	0.00775	0.00198	1	08/17/20 20:48	08/18/20 06:23	205-99-2	
Benzo(g,h,i)perylene	**<0.00229**	mg/kg	0.00775	0.00229	1	08/17/20 20:48	08/18/20 06:23	191-24-2	
Benzo(k)fluoranthene	**<0.00278**	mg/kg	0.00775	0.00278	1	08/17/20 20:48	08/18/20 06:23	207-08-9	
Chrysene	**<0.00300**	mg/kg	0.00775	0.00300	1	08/17/20 20:48	08/18/20 06:23	218-01-9	
Dibenz(a,h)anthracene	**<0.00222**	mg/kg	0.00775	0.00222	1	08/17/20 20:48	08/18/20 06:23	53-70-3	
Fluoranthene	**<0.00293**	mg/kg	0.00775	0.00293	1	08/17/20 20:48	08/18/20 06:23	206-44-0	
Fluorene	**<0.00265**	mg/kg	0.00775	0.00265	1	08/17/20 20:48	08/18/20 06:23	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00234**	mg/kg	0.00775	0.00234	1	08/17/20 20:48	08/18/20 06:23	193-39-5	
Naphthalene	**<0.00527**	mg/kg	0.0258	0.00527	1	08/17/20 20:48	08/18/20 06:23	91-20-3	
Phenanthrene	**<0.00299**	mg/kg	0.00775	0.00299	1	08/17/20 20:48	08/18/20 06:23	85-01-8	
Pyrene	**<0.00258**	mg/kg	0.00775	0.00258	1	08/17/20 20:48	08/18/20 06:23	129-00-0	
1-Methylnaphthalene	**<0.00580**	mg/kg	0.0258	0.00580	1	08/17/20 20:48	08/18/20 06:23	90-12-0	
2-Methylnaphthalene	**<0.00552**	mg/kg	0.0258	0.00552	1	08/17/20 20:48	08/18/20 06:23	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	99.7	%	14.0-149		1	08/17/20 20:48	08/18/20 06:23	4165-60-0	
2-Fluorobiphenyl (S)	93.4	%	34.0-125		1	08/17/20 20:48	08/18/20 06:23	321-60-8	
Terphenyl-d14 (S)	95.3	%	23.0-120		1	08/17/20 20:48	08/18/20 06:23	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**20.5**	%	0.10	0.10	1		08/14/20 11:01		

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (0-2) **Lab ID: 30377174009** Collected: 08/11/20 13:30 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**77.4**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**14.9**	mg/kg	1.0	0.40	1	08/17/20 10:08	08/19/20 09:22	7440-38-2	
Barium	**39.2**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 09:22	7440-39-3	J-
Cadmium	**0.064J**	mg/kg	0.31	0.047	1	08/17/20 10:08	08/19/20 09:22	7440-43-9	J
Chromium	**9.0**	mg/kg	1.0	0.78	1	08/17/20 10:08	08/19/20 09:22	7440-47-3	
Lead	**6.2**	mg/kg	1.0	0.46	1	08/17/20 10:08	08/19/20 09:22	7439-92-1	J
Selenium	**<0.62**	mg/kg	1.6	0.62	1	08/17/20 10:08	08/19/20 09:22	7782-49-2	
Silver	**<0.088**	mg/kg	0.62	0.088	1	08/17/20 10:08	08/19/20 09:22	7440-22-4	
Zinc	**16.3**	mg/kg	2.1	1.1	1	08/17/20 10:08	08/19/20 09:22	7440-66-6	J
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.31 Pace Analytical Services - Greensburg								
Arsenic	**0.0061J**	mg/L	0.025	0.0033	1	08/19/20 12:07	08/21/20 08:40	7440-38-2	2c J
Barium	**0.030J**	mg/L	0.050	0.00055	1	08/19/20 12:07	08/21/20 08:40	7440-39-3	2c,B U*
Cadmium	**<0.00027**	mg/L	0.015	0.00027	1	08/19/20 12:07	08/21/20 08:40	7440-43-9	2c
Chromium	**0.0058J**	mg/L	0.025	0.00067	1	08/19/20 12:07	08/21/20 08:40	7440-47-3	2c,B J
Lead	**0.0035J**	mg/L	0.025	0.0031	1	08/19/20 12:07	08/21/20 08:40	7439-92-1	2c J
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/19/20 12:07	08/21/20 08:40	7782-49-2	2c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/19/20 12:07	08/21/20 08:40	7440-22-4	2c
Zinc	**0.010J**	mg/L	0.025	0.0034	1	08/19/20 12:07	08/21/20 08:40	7440-66-6	2c,B U*
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/18/20 10:21 Initial pH: ; Final pH: 8.31 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/19/20 14:17	08/19/20 22:47	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**<0.0052**	mg/kg	0.11	0.0052	1	08/17/20 11:58	08/17/20 22:09	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**<0.00276**	mg/kg	0.00720	0.00276	1	08/17/20 20:48	08/18/20 06:44	120-12-7	
Acenaphthene	**<0.00251**	mg/kg	0.00720	0.00251	1	08/17/20 20:48	08/18/20 06:44	83-32-9	
Acenaphthylene	**<0.00259**	mg/kg	0.00720	0.00259	1	08/17/20 20:48	08/18/20 06:44	208-96-8	
Benzo(a)anthracene	**<0.00208**	mg/kg	0.00720	0.00208	1	08/17/20 20:48	08/18/20 06:44	56-55-3	
Benzo(a)pyrene	**<0.00215**	mg/kg	0.00720	0.00215	1	08/17/20 20:48	08/18/20 06:44	50-32-8	
Benzo(b)fluoranthene	**<0.00184**	mg/kg	0.00720	0.00184	1	08/17/20 20:48	08/18/20 06:44	205-99-2	
Benzo(g,h,i)perylene	**<0.00212**	mg/kg	0.00720	0.00212	1	08/17/20 20:48	08/18/20 06:44	191-24-2	
Benzo(k)fluoranthene	**<0.00258**	mg/kg	0.00720	0.00258	1	08/17/20 20:48	08/18/20 06:44	207-08-9	
Chrysene	**<0.00278**	mg/kg	0.00720	0.00278	1	08/17/20 20:48	08/18/20 06:44	218-01-9	
Dibenz(a,h)anthracene	**<0.00206**	mg/kg	0.00720	0.00206	1	08/17/20 20:48	08/18/20 06:44	53-70-3	
Fluoranthene	**<0.00272**	mg/kg	0.00720	0.00272	1	08/17/20 20:48	08/18/20 06:44	206-44-0	
Fluorene	**<0.00246**	mg/kg	0.00720	0.00246	1	08/17/20 20:48	08/18/20 06:44	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00217**	mg/kg	0.00720	0.00217	1	08/17/20 20:48	08/18/20 06:44	193-39-5	
Naphthalene	**<0.00490**	mg/kg	0.0240	0.00490	1	08/17/20 20:48	08/18/20 06:44	91-20-3	
Phenanthrene	**<0.00277**	mg/kg	0.00720	0.00277	1	08/17/20 20:48	08/18/20 06:44	85-01-8	
Pyrene	**<0.00240**	mg/kg	0.00720	0.00240	1	08/17/20 20:48	08/18/20 06:44	129-00-0	
1-Methylnaphthalene	**<0.00539**	mg/kg	0.0240	0.00539	1	08/17/20 20:48	08/18/20 06:44	90-12-0	
2-Methylnaphthalene	**<0.00512**	mg/kg	0.0240	0.00512	1	08/17/20 20:48	08/18/20 06:44	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	100	%	14.0-149		1	08/17/20 20:48	08/18/20 06:44	4165-60-0	
2-Fluorobiphenyl (S)	93.9	%	34.0-125		1	08/17/20 20:48	08/18/20 06:44	321-60-8	
Terphenyl-d14 (S)	97.0	%	23.0-120		1	08/17/20 20:48	08/18/20 06:44	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.86								
	Pace National - Mt. Juliet								
Anthracene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 13:11	120-12-7	
Acenaphthene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 13:11	83-32-9	
Acenaphthylene	**<0.0171**	ug/L	0.0500	0.0171	1	08/21/20 07:13	08/21/20 13:11	208-96-8	
Benzo(a)anthracene	**<0.0203**	ug/L	0.0500	0.0203	1	08/21/20 07:13	08/21/20 13:11	56-55-3	
Benzo(a)pyrene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 13:11	50-32-8	
Benzo(b)fluoranthene	**<0.0168**	ug/L	0.0500	0.0168	1	08/21/20 07:13	08/21/20 13:11	205-99-2	
Benzo(g,h,i)perylene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 13:11	191-24-2	~~ML,R1~~ UJ
Benzo(k)fluoranthene	**<0.0202**	ug/L	0.0500	0.0202	1	08/21/20 07:13	08/21/20 13:11	207-08-9	
Chrysene	**<0.0179**	ug/L	0.0500	0.0179	1	08/21/20 07:13	08/21/20 13:11	218-01-9	
Dibenz(a,h)anthracene	**<0.0160**	ug/L	0.0500	0.0160	1	08/21/20 07:13	08/21/20 13:11	53-70-3	~~ML,R1~~ UJ
Fluoranthene	**<0.0270**	ug/L	0.100	0.0270	1	08/21/20 07:13	08/21/20 13:11	206-44-0	
Fluorene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 13:11	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0158**	ug/L	0.0500	0.0158	1	08/21/20 07:13	08/21/20 13:11	193-39-5	~~ML,R1~~ UJ
Naphthalene	**<0.0917**	ug/L	0.250	0.0917	1	08/21/20 07:13	08/21/20 13:11	91-20-3	
Phenanthrene	**<0.0180**	ug/L	0.0500	0.0180	1	08/21/20 07:13	08/21/20 13:11	85-01-8	
Pyrene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 13:11	129-00-0	
1-Methylnaphthalene	**<0.0687**	ug/L	0.250	0.0687	1	08/21/20 07:13	08/21/20 13:11	90-12-0	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.86								
	Pace National - Mt. Juliet								
2-Methylnaphthalene	**<0.0674**	ug/L	0.250	0.0674	1	08/21/20 07:13	08/21/20 13:11	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	109	%	31.0-160		1	08/21/20 07:13	08/21/20 13:11	4165-60-0	
2-Fluorobiphenyl (S)	105	%	48.0-148		1	08/21/20 07:13	08/21/20 13:11	321-60-8	
Terphenyl-d14 (S)	98.5	%	37.0-146		1	08/21/20 07:13	08/21/20 13:11	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**23.7**	ug/kg	15.0	4.8	1	08/19/20 12:46	08/20/20 01:25	67-64-1	
Benzene	**<1.3**	ug/kg	7.5	1.3	1	08/19/20 12:46	08/20/20 01:25	71-43-2	
Bromodichloromethane	**<1.6**	ug/kg	7.5	1.6	1	08/19/20 12:46	08/20/20 01:25	75-27-4	
Bromoform	**<0.99**	ug/kg	7.5	0.99	1	08/19/20 12:46	08/20/20 01:25	75-25-2	
Bromomethane	**<2.8**	ug/kg	7.5	2.8	1	08/19/20 12:46	08/20/20 01:25	74-83-9	~~1c~~ UJ
2-Butanone (MEK)	**<1.4**	ug/kg	15.0	1.4	1	08/19/20 12:46	08/20/20 01:25	78-93-3	
Carbon disulfide	**<2.1**	ug/kg	7.5	2.1	1	08/19/20 12:46	08/20/20 01:25	75-15-0	
Carbon tetrachloride	**<2.6**	ug/kg	7.5	2.6	1	08/19/20 12:46	08/20/20 01:25	56-23-5	
Chlorobenzene	**<1.2**	ug/kg	7.5	1.2	1	08/19/20 12:46	08/20/20 01:25	108-90-7	
Chloroethane	**<3.1**	ug/kg	7.5	3.1	1	08/19/20 12:46	08/20/20 01:25	75-00-3	
Chloroform	**<2.2**	ug/kg	7.5	2.2	1	08/19/20 12:46	08/20/20 01:25	67-66-3	
Chloromethane	**<2.5**	ug/kg	7.5	2.5	1	08/19/20 12:46	08/20/20 01:25	74-87-3	
Cyclohexane	**<2.8**	ug/kg	15.0	2.8	1	08/19/20 12:46	08/20/20 01:25	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/kg	7.5	1.8	1	08/19/20 12:46	08/20/20 01:25	96-12-8	
Dibromochloromethane	**<1.2**	ug/kg	7.5	1.2	1	08/19/20 12:46	08/20/20 01:25	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/kg	7.5	1.2	1	08/19/20 12:46	08/20/20 01:25	106-93-4	
1,2-Dichlorobenzene	**<0.88**	ug/kg	7.5	0.88	1	08/19/20 12:46	08/20/20 01:25	95-50-1	
1,3-Dichlorobenzene	**<0.97**	ug/kg	7.5	0.97	1	08/19/20 12:46	08/20/20 01:25	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/kg	7.5	1.1	1	08/19/20 12:46	08/20/20 01:25	106-46-7	
Dichlorodifluoromethane	**<4.1**	ug/kg	7.5	4.1	1	08/19/20 12:46	08/20/20 01:25	75-71-8	
1,1-Dichloroethane	**<1.9**	ug/kg	7.5	1.9	1	08/19/20 12:46	08/20/20 01:25	75-34-3	
1,2-Dichloroethane	**<1.9**	ug/kg	7.5	1.9	1	08/19/20 12:46	08/20/20 01:25	107-06-2	
1,1-Dichloroethene	**<2.8**	ug/kg	7.5	2.8	1	08/19/20 12:46	08/20/20 01:25	75-35-4	
cis-1,2-Dichloroethene	**9.3**	ug/kg	7.5	1.7	1	08/19/20 12:46	08/20/20 01:25	156-59-2	
trans-1,2-Dichloroethene	**<1.9**	ug/kg	7.5	1.9	1	08/19/20 12:46	08/20/20 01:25	156-60-5	
1,2-Dichloropropane	**<1.1**	ug/kg	7.5	1.1	1	08/19/20 12:46	08/20/20 01:25	78-87-5	
cis-1,3-Dichloropropene	**<0.75**	ug/kg	7.5	0.75	1	08/19/20 12:46	08/20/20 01:25	10061-01-5	
trans-1,3-Dichloropropene	**<1.6**	ug/kg	7.5	1.6	1	08/19/20 12:46	08/20/20 01:25	10061-02-6	
Ethylbenzene	**<1.6**	ug/kg	7.5	1.6	1	08/19/20 12:46	08/20/20 01:25	100-41-4	
2-Hexanone	**<1.5**	ug/kg	15.0	1.5	1	08/19/20 12:46	08/20/20 01:25	591-78-6	
Isopropylbenzene (Cumene)	**<1.7**	ug/kg	7.5	1.7	1	08/19/20 12:46	08/20/20 01:25	98-82-8	
Methyl acetate	**<1.6**	ug/kg	74.9	1.6	1	08/19/20 12:46	08/20/20 01:25	79-20-9	~~1c~~ UJ
Methylcyclohexane	**<4.7**	ug/kg	15.0	4.7	1	08/19/20 12:46	08/20/20 01:25	108-87-2	
Methylene Chloride	**<6.3**	ug/kg	7.5	6.3	1	08/19/20 12:46	08/20/20 01:25	75-09-2	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
4-Methyl-2-pentanone (MIBK)	**<1.7**	ug/kg	15.0	1.7	1	08/19/20 12:46	08/20/20 01:25	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/kg	7.5	1.0	1	08/19/20 12:46	08/20/20 01:25	1634-04-4	
Styrene	**<2.2**	ug/kg	7.5	2.2	1	08/19/20 12:46	08/20/20 01:25	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.88**	ug/kg	7.5	0.88	1	08/19/20 12:46	08/20/20 01:25	79-34-5	
Tetrachloroethene	**<2.6**	ug/kg	7.5	2.6	1	08/19/20 12:46	08/20/20 01:25	127-18-4	
Toluene	**<1.5**	ug/kg	7.5	1.5	1	08/19/20 12:46	08/20/20 01:25	108-88-3	
1,2,3-Trichlorobenzene	**<1.4**	ug/kg	7.5	1.4	1	08/19/20 12:46	08/20/20 01:25	87-61-6	
1,2,4-Trichlorobenzene	**<1.9**	ug/kg	7.5	1.9	1	08/19/20 12:46	08/20/20 01:25	120-82-1	
1,1,1-Trichloroethane	**<2.3**	ug/kg	7.5	2.3	1	08/19/20 12:46	08/20/20 01:25	71-55-6	
1,1,2-Trichloroethane	**<1.5**	ug/kg	7.5	1.5	1	08/19/20 12:46	08/20/20 01:25	79-00-5	
Trichloroethene	**13.5**	ug/kg	7.5	2.2	1	08/19/20 12:46	08/20/20 01:25	79-01-6	
Trichlorofluoromethane	**<3.2**	ug/kg	7.5	3.2	1	08/19/20 12:46	08/20/20 01:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<3.2**	ug/kg	74.9	3.2	1	08/19/20 12:46	08/20/20 01:25	76-13-1	
1,2,4-Trimethylbenzene	**<3.7**	ug/kg	7.5	3.7	1	08/19/20 12:46	08/20/20 01:25	95-63-6	
1,3,5-Trimethylbenzene	**<3.0**	ug/kg	7.5	3.0	1	08/19/20 12:46	08/20/20 01:25	108-67-8	
Vinyl chloride	**<3.2**	ug/kg	7.5	3.2	1	08/19/20 12:46	08/20/20 01:25	75-01-4	
Xylene (Total)	**<4.8**	ug/kg	22.5	4.8	1	08/19/20 12:46	08/20/20 01:25	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%.	70-130		1	08/19/20 12:46	08/20/20 01:25	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/19/20 12:46	08/20/20 01:25	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	08/19/20 12:46	08/20/20 01:25	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130		1	08/19/20 12:46	08/20/20 01:25	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Acetone	**<31.8**	ug/L	100	31.8	10		08/19/20 16:35	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 16:35	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 16:35	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 16:35	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 16:35	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 16:35	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 16:35	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 16:35	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 16:35	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 16:35	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 16:35	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 16:35	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 16:35	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 16:35	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 16:35	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 16:35	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 16:35	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 16:35	541-73-1	

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(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 16:35	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 16:35	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 16:35	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 16:35	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 16:35	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 16:35	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 16:35	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 16:35	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 16:35	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 16:35	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 16:35	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 16:35	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 16:35	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 16:35	79-20-9	UJ
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 16:35	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 16:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 16:35	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 16:35	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 16:35	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 16:35	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 16:35	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 16:35	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 16:35	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 16:35	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 16:35	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 16:35	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 16:35	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 16:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 16:35	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 16:35	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 16:35	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 16:35	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 16:35	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	70-130		10		08/19/20 16:35	17060-07-0	
Toluene-d8 (S)	97	%.	70-130		10		08/19/20 16:35	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		10		08/19/20 16:35	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		08/19/20 16:35	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**13.3**	%	0.10	0.10	1		08/14/20 11:01		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB10 (14-16) **Lab ID: 30377174010** Collected: 08/11/20 13:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**83.3**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB09 (0-2) **Lab ID: 30377174011** Collected: 08/11/20 14:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**38.3**	mg/kg	1.2	0.46	1	08/17/20 10:08	08/19/20 09:25	7440-38-2	
Barium	**216**	mg/kg	2.3	0.15	1	08/17/20 10:08	08/19/20 09:25	7440-39-3	J-
Cadmium	**3.1**	mg/kg	0.35	0.054	1	08/17/20 10:08	08/19/20 09:25	7440-43-9	
Chromium	**27.4**	mg/kg	1.2	0.88	1	08/17/20 10:08	08/19/20 09:25	7440-47-3	
Lead	**153**	mg/kg	1.2	0.52	1	08/17/20 10:08	08/19/20 09:25	7439-92-1	J
Selenium	**<0.70**	mg/kg	1.9	0.70	1	08/17/20 10:08	08/19/20 09:25	7782-49-2	
Silver	**<0.099**	mg/kg	0.70	0.099	1	08/17/20 10:08	08/19/20 09:25	7440-22-4	
Zinc	**177**	mg/kg	2.3	1.3	1	08/17/20 10:08	08/19/20 09:25	7440-66-6	J
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.31**	mg/kg	0.12	0.0060	1	08/17/20 11:58	08/17/20 22:11	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**0.00703**	mg/kg	0.00664	0.00255	1	08/17/20 20:46	08/18/20 06:18	120-12-7	
Acenaphthene	**0.00250J**	mg/kg	0.00664	0.00231	1	08/17/20 20:46	08/18/20 06:18	83-32-9	J
Acenaphthylene	**0.00840**	mg/kg	0.00664	0.00239	1	08/17/20 20:46	08/18/20 06:18	208-96-8	
Benzo(a)anthracene	**0.0394**	mg/kg	0.00664	0.00191	1	08/17/20 20:46	08/18/20 06:18	56-55-3	
Benzo(a)pyrene	**0.0357**	mg/kg	0.00664	0.00198	1	08/17/20 20:46	08/18/20 06:18	50-32-8	
Benzo(b)fluoranthene	**0.0596**	mg/kg	0.00664	0.00169	1	08/17/20 20:46	08/18/20 06:18	205-99-2	
Benzo(g,h,i)perylene	**0.0288**	mg/kg	0.00664	0.00196	1	08/17/20 20:46	08/18/20 06:18	191-24-2	
Benzo(k)fluoranthene	**0.0214**	mg/kg	0.00664	0.00238	1	08/17/20 20:46	08/18/20 06:18	207-08-9	
Chrysene	**0.0553**	mg/kg	0.00664	0.00257	1	08/17/20 20:46	08/18/20 06:18	218-01-9	
Dibenz(a,h)anthracene	**0.00730**	mg/kg	0.00664	0.00190	1	08/17/20 20:46	08/18/20 06:18	53-70-3	
Fluoranthene	**0.0719**	mg/kg	0.00664	0.00251	1	08/17/20 20:46	08/18/20 06:18	206-44-0	
Fluorene	**0.00326J**	mg/kg	0.00664	0.00227	1	08/17/20 20:46	08/18/20 06:18	86-73-7	J
Indeno(1,2,3-cd)pyrene	**0.0321**	mg/kg	0.00664	0.00200	1	08/17/20 20:46	08/18/20 06:18	193-39-5	
Naphthalene	**0.0475**	mg/kg	0.0221	0.00451	1	08/17/20 20:46	08/18/20 06:18	91-20-3	
Phenanthrene	**0.0900**	mg/kg	0.00664	0.00256	1	08/17/20 20:46	08/18/20 06:18	85-01-8	
Pyrene	**0.0712**	mg/kg	0.00664	0.00221	1	08/17/20 20:46	08/18/20 06:18	129-00-0	
1-Methylnaphthalene	**0.0726**	mg/kg	0.0221	0.00497	1	08/17/20 20:46	08/18/20 06:18	90-12-0	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (0-2) **Lab ID: 30377174011** Collected: 08/11/20 14:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
2-Methylnaphthalene	**0.0719**	mg/kg	0.0221	0.00473	1	08/17/20 20:46	08/18/20 06:18	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	86.0	%	14.0-149		1	08/17/20 20:46	08/18/20 06:18	4165-60-0	
2-Fluorobiphenyl (S)	86.6	%	34.0-125		1	08/17/20 20:46	08/18/20 06:18	321-60-8	
Terphenyl-d14 (S)	95.3	%	23.0-120		1	08/17/20 20:46	08/18/20 06:18	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**18.9**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**90.4**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**7.0**	mg/kg	1.2	0.46	1	08/17/20 10:08	08/19/20 09:28	7440-38-2	
Barium	**112**	mg/kg	2.3	0.15	1	08/17/20 10:08	08/19/20 09:28	7440-39-3	J-
Cadmium	**0.13J**	mg/kg	0.35	0.054	1	08/17/20 10:08	08/19/20 09:28	7440-43-9	J
Chromium	**18.6**	mg/kg	1.2	0.89	1	08/17/20 10:08	08/19/20 09:28	7440-47-3	
Lead	**13.4**	mg/kg	1.2	0.53	1	08/17/20 10:08	08/19/20 09:28	7439-92-1	J
Selenium	**<0.70**	mg/kg	1.9	0.70	1	08/17/20 10:08	08/19/20 09:28	7782-49-2	
Silver	**<0.099**	mg/kg	0.70	0.099	1	08/17/20 10:08	08/19/20 09:28	7440-22-4	
Zinc	**44.8**	mg/kg	2.3	1.3	1	08/17/20 10:08	08/19/20 09:28	7440-66-6	J
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
	Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 7.34								
	Pace Analytical Services - Greensburg								
Arsenic	**0.0059J**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 09:09	7440-38-2	3c J
Barium	**0.10**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 09:09	7440-39-3	3c
Cadmium	**0.00067J**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 09:09	7440-43-9	3c U*
Chromium	**0.018J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 09:09	7440-47-3	3c J
Lead	**0.0065J**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 09:09	7439-92-1	3c J
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 09:09	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 09:09	7440-22-4	3c
Zinc	**0.039**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 09:09	7440-66-6	3c,B

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 7.34 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 22:00	7439-97-6	UJ
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.015J**	mg/kg	0.12	0.0057	1	08/17/20 11:58	08/17/20 22:12	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00300**	mg/kg	0.00783	0.00300	1	08/17/20 20:46	08/18/20 05:09	120-12-7	
Acenaphthene	**<0.00273**	mg/kg	0.00783	0.00273	1	08/17/20 20:46	08/18/20 05:09	83-32-9	
Acenaphthylene	**<0.00282**	mg/kg	0.00783	0.00282	1	08/17/20 20:46	08/18/20 05:09	208-96-8	
Benzo(a)anthracene	**<0.00226**	mg/kg	0.00783	0.00226	1	08/17/20 20:46	08/18/20 05:09	56-55-3	
Benzo(a)pyrene	**<0.00234**	mg/kg	0.00783	0.00234	1	08/17/20 20:46	08/18/20 05:09	50-32-8	
Benzo(b)fluoranthene	**<0.00200**	mg/kg	0.00783	0.00200	1	08/17/20 20:46	08/18/20 05:09	205-99-2	
Benzo(g,h,i)perylene	**<0.00231**	mg/kg	0.00783	0.00231	1	08/17/20 20:46	08/18/20 05:09	191-24-2	
Benzo(k)fluoranthene	**<0.00281**	mg/kg	0.00783	0.00281	1	08/17/20 20:46	08/18/20 05:09	207-08-9	
Chrysene	**<0.00303**	mg/kg	0.00783	0.00303	1	08/17/20 20:46	08/18/20 05:09	218-01-9	
Dibenz(a,h)anthracene	**<0.00225**	mg/kg	0.00783	0.00225	1	08/17/20 20:46	08/18/20 05:09	53-70-3	
Fluoranthene	**<0.00296**	mg/kg	0.00783	0.00296	1	08/17/20 20:46	08/18/20 05:09	206-44-0	
Fluorene	**<0.00268**	mg/kg	0.00783	0.00268	1	08/17/20 20:46	08/18/20 05:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00236**	mg/kg	0.00783	0.00236	1	08/17/20 20:46	08/18/20 05:09	193-39-5	
Naphthalene	**<0.00533**	mg/kg	0.0261	0.00533	1	08/17/20 20:46	08/18/20 05:09	91-20-3	
Phenanthrene	**<0.00302**	mg/kg	0.00783	0.00302	1	08/17/20 20:46	08/18/20 05:09	85-01-8	
Pyrene	**<0.00261**	mg/kg	0.00783	0.00261	1	08/17/20 20:46	08/18/20 05:09	129-00-0	
1-Methylnaphthalene	**<0.00586**	mg/kg	0.0261	0.00586	1	08/17/20 20:46	08/18/20 05:09	90-12-0	
2-Methylnaphthalene	**<0.00557**	mg/kg	0.0261	0.00557	1	08/17/20 20:46	08/18/20 05:09	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	78.6	%	14.0-149		1	08/17/20 20:46	08/18/20 05:09	4165-60-0	
2-Fluorobiphenyl (S)	81.4	%	34.0-125		1	08/17/20 20:46	08/18/20 05:09	321-60-8	
Terphenyl-d14 (S)	89.1	%	23.0-120		1	08/17/20 20:46	08/18/20 05:09	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015 Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.63 Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 14:15	120-12-7	UJ
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 14:15	83-32-9	UJ
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 14:15	208-96-8	UJ
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 14:15	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 14:15	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 14:15	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 14:15	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 14:15	207-08-9	UJ

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.63								
	Pace National - Mt. Juliet								
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 14:15	218-01-9	UJ
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 14:15	53-70-3	UJ
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 14:15	206-44-0	UJ
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 14:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 14:15	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 14:15	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 14:15	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 14:15	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 14:15	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 14:15	91-57-6	UJ
Surrogates									
Nitrobenzene-d5 (S)	100	%	31.0-160		2	08/21/20 07:13	08/21/20 14:15	4165-60-0	
2-Fluorobiphenyl (S)	81.5	%	48.0-148		2	08/21/20 07:13	08/21/20 14:15	321-60-8	
Terphenyl-d14 (S)	33.0	%	37.0-146		2	08/21/20 07:13	08/21/20 14:15	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**52.9**	ug/kg	8.5	2.7	1	08/19/20 12:46	08/20/20 01:51	67-64-1	
Benzene	**<0.74**	ug/kg	4.3	0.74	1	08/19/20 12:46	08/20/20 01:51	71-43-2	
Bromodichloromethane	**<0.93**	ug/kg	4.3	0.93	1	08/19/20 12:46	08/20/20 01:51	75-27-4	
Bromoform	**<0.56**	ug/kg	4.3	0.56	1	08/19/20 12:46	08/20/20 01:51	75-25-2	
Bromomethane	**<1.6**	ug/kg	4.3	1.6	1	08/19/20 12:46	08/20/20 01:51	74-83-9	UJ
2-Butanone (MEK)	**4.3J**	ug/kg	8.5	0.78	1	08/19/20 12:46	08/20/20 01:51	78-93-3	
Carbon disulfide	**8.8**	ug/kg	4.3	1.2	1	08/19/20 12:46	08/20/20 01:51	75-15-0	
Carbon tetrachloride	**<1.5**	ug/kg	4.3	1.5	1	08/19/20 12:46	08/20/20 01:51	56-23-5	
Chlorobenzene	**<0.67**	ug/kg	4.3	0.67	1	08/19/20 12:46	08/20/20 01:51	108-90-7	
Chloroethane	**<1.8**	ug/kg	4.3	1.8	1	08/19/20 12:46	08/20/20 01:51	75-00-3	
Chloroform	**<1.3**	ug/kg	4.3	1.3	1	08/19/20 12:46	08/20/20 01:51	67-66-3	
Chloromethane	**<1.4**	ug/kg	4.3	1.4	1	08/19/20 12:46	08/20/20 01:51	74-87-3	
Cyclohexane	**<1.6**	ug/kg	8.5	1.6	1	08/19/20 12:46	08/20/20 01:51	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/kg	4.3	1.0	1	08/19/20 12:46	08/20/20 01:51	96-12-8	
Dibromochloromethane	**<0.67**	ug/kg	4.3	0.67	1	08/19/20 12:46	08/20/20 01:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.68**	ug/kg	4.3	0.68	1	08/19/20 12:46	08/20/20 01:51	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/kg	4.3	0.50	1	08/19/20 12:46	08/20/20 01:51	95-50-1	
1,3-Dichlorobenzene	**<0.55**	ug/kg	4.3	0.55	1	08/19/20 12:46	08/20/20 01:51	541-73-1	
1,4-Dichlorobenzene	**<0.61**	ug/kg	4.3	0.61	1	08/19/20 12:46	08/20/20 01:51	106-46-7	
Dichlorodifluoromethane	**<2.3**	ug/kg	4.3	2.3	1	08/19/20 12:46	08/20/20 01:51	75-71-8	
1,1-Dichloroethane	**<1.1**	ug/kg	4.3	1.1	1	08/19/20 12:46	08/20/20 01:51	75-34-3	
1,2-Dichloroethane	**<1.1**	ug/kg	4.3	1.1	1	08/19/20 12:46	08/20/20 01:51	107-06-2	
1,1-Dichloroethene	**<1.6**	ug/kg	4.3	1.6	1	08/19/20 12:46	08/20/20 01:51	75-35-4	
cis-1,2-Dichloroethene	**<0.99**	ug/kg	4.3	0.99	1	08/19/20 12:46	08/20/20 01:51	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/kg	4.3	1.1	1	08/19/20 12:46	08/20/20 01:51	156-60-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,2-Dichloropropane	**<0.61**	ug/kg	4.3	0.61	1	08/19/20 12:46	08/20/20 01:51	78-87-5	
cis-1,3-Dichloropropene	**<0.43**	ug/kg	4.3	0.43	1	08/19/20 12:46	08/20/20 01:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.89**	ug/kg	4.3	0.89	1	08/19/20 12:46	08/20/20 01:51	10061-02-6	
Ethylbenzene	**<0.92**	ug/kg	4.3	0.92	1	08/19/20 12:46	08/20/20 01:51	100-41-4	
2-Hexanone	**<0.84**	ug/kg	8.5	0.84	1	08/19/20 12:46	08/20/20 01:51	591-78-6	
Isopropylbenzene (Cumene)	**<0.99**	ug/kg	4.3	0.99	1	08/19/20 12:46	08/20/20 01:51	98-82-8	
Methyl acetate	**<0.93**	ug/kg	42.6	0.93	1	08/19/20 12:46	08/20/20 01:51	79-20-9	~~1C~~ UJ
Methylcyclohexane	**<2.7**	ug/kg	8.5	2.7	1	08/19/20 12:46	08/20/20 01:51	108-87-2	
Methylene Chloride	**<3.6**	ug/kg	4.3	3.6	1	08/19/20 12:46	08/20/20 01:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.95**	ug/kg	8.5	0.95	1	08/19/20 12:46	08/20/20 01:51	108-10-1	
Methyl-tert-butyl ether	**<0.57**	ug/kg	4.3	0.57	1	08/19/20 12:46	08/20/20 01:51	1634-04-4	
Styrene	**<1.2**	ug/kg	4.3	1.2	1	08/19/20 12:46	08/20/20 01:51	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/kg	4.3	0.50	1	08/19/20 12:46	08/20/20 01:51	79-34-5	
Tetrachloroethene	**<1.5**	ug/kg	4.3	1.5	1	08/19/20 12:46	08/20/20 01:51	127-18-4	
Toluene	**<0.84**	ug/kg	4.3	0.84	1	08/19/20 12:46	08/20/20 01:51	108-88-3	
1,2,3-Trichlorobenzene	**<0.81**	ug/kg	4.3	0.81	1	08/19/20 12:46	08/20/20 01:51	87-61-6	
1,2,4-Trichlorobenzene	**<1.1**	ug/kg	4.3	1.1	1	08/19/20 12:46	08/20/20 01:51	120-82-1	
1,1,1-Trichloroethane	**<1.3**	ug/kg	4.3	1.3	1	08/19/20 12:46	08/20/20 01:51	71-55-6	
1,1,2-Trichloroethane	**<0.84**	ug/kg	4.3	0.84	1	08/19/20 12:46	08/20/20 01:51	79-00-5	
Trichloroethene	**<1.3**	ug/kg	4.3	1.3	1	08/19/20 12:46	08/20/20 01:51	79-01-6	
Trichlorofluoromethane	**<1.8**	ug/kg	4.3	1.8	1	08/19/20 12:46	08/20/20 01:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.8**	ug/kg	42.6	1.8	1	08/19/20 12:46	08/20/20 01:51	76-13-1	
1,2,4-Trimethylbenzene	**<2.1**	ug/kg	4.3	2.1	1	08/19/20 12:46	08/20/20 01:51	95-63-6	
1,3,5-Trimethylbenzene	**<1.7**	ug/kg	4.3	1.7	1	08/19/20 12:46	08/20/20 01:51	108-67-8	
Vinyl chloride	**<1.8**	ug/kg	4.3	1.8	1	08/19/20 12:46	08/20/20 01:51	75-01-4	
Xylene (Total)	**<2.7**	ug/kg	12.8	2.7	1	08/19/20 12:46	08/20/20 01:51	1330-20-7	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	08/19/20 12:46	08/20/20 01:51	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/19/20 12:46	08/20/20 01:51	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	08/19/20 12:46	08/20/20 01:51	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130		1	08/19/20 12:46	08/20/20 01:51	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20 Pace Analytical Services - Greensburg								
Acetone	**<31.8**	ug/L	100	31.8	10		08/19/20 17:01	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 17:01	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 17:01	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 17:01	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:01	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 17:01	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 17:01	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 17:01	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 17:01	108-90-7	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 17:01	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 17:01	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 17:01	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 17:01	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 17:01	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 17:01	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 17:01	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:01	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 17:01	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 17:01	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 17:01	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 17:01	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 17:01	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:01	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:01	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:01	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 17:01	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 17:01	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 17:01	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 17:01	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 17:01	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:01	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 17:01	79-20-9	UJ
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 17:01	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 17:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 17:01	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 17:01	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 17:01	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:01	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 17:01	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 17:01	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 17:01	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:01	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 17:01	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 17:01	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 17:01	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 17:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 17:01	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 17:01	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 17:01	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 17:01	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 17:01	1330-20-7	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB09 (16-20) **Lab ID: 30377174012** Collected: 08/11/20 14:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	70-130		10		08/19/20 17:01	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		08/19/20 17:01	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		08/19/20 17:01	460-00-4	
Dibromofluoromethane (S)	97	%.	70-130		10		08/19/20 17:01	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**20.6**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**76.6**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB08 (0-2) **Lab ID: 30377174013** Collected: 08/11/20 14:40 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**6.7**	mg/kg	1.1	0.44	1	08/17/20 10:08	08/19/20 08:42	7440-38-2	
Barium	**113**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 08:42	7440-39-3	~~D6,ML~~ J-
Cadmium	**0.16J**	mg/kg	0.34	0.052	1	08/17/20 10:08	08/19/20 08:42	7440-43-9	J
Chromium	**16.6**	mg/kg	1.1	0.85	1	08/17/20 10:08	08/19/20 08:42	7440-47-3	
Lead	**29.4**	mg/kg	1.1	0.51	1	08/17/20 10:08	08/19/20 08:42	7439-92-1	~~D6~~ J
Selenium	**<0.67**	mg/kg	1.8	0.67	1	08/17/20 10:08	08/19/20 08:42	7782-49-2	
Silver	**<0.095**	mg/kg	0.67	0.095	1	08/17/20 10:08	08/19/20 08:42	7440-22-4	
Zinc	**53.9**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 08:42	7440-66-6	~~D6~~ J
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A								
	Pace Analytical Services - Greensburg								
Mercury	**0.059J**	mg/kg	0.12	0.0058	1	08/17/20 11:58	08/17/20 21:45	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**0.0191**	mg/kg	0.00687	0.00263	1	08/17/20 20:46	08/18/20 06:36	120-12-7	
Acenaphthene	**<0.00239**	mg/kg	0.00687	0.00239	1	08/17/20 20:46	08/18/20 06:36	83-32-9	
Acenaphthylene	**0.0107**	mg/kg	0.00687	0.00247	1	08/17/20 20:46	08/18/20 06:36	208-96-8	
Benzo(a)anthracene	**0.0922**	mg/kg	0.00687	0.00198	1	08/17/20 20:46	08/18/20 06:36	56-55-3	
Benzo(a)pyrene	**0.0640**	mg/kg	0.00687	0.00205	1	08/17/20 20:46	08/18/20 06:36	50-32-8	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (0-2) **Lab ID: 30377174013** Collected: 08/11/20 14:40 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Benzo(b)fluoranthene	**0.117**	mg/kg	0.00687	0.00175	1	08/17/20 20:46	08/18/20 06:36	205-99-2	
Benzo(g,h,i)perylene	**0.0437**	mg/kg	0.00687	0.00203	1	08/17/20 20:46	08/18/20 06:36	191-24-2	
Benzo(k)fluoranthene	**0.0512**	mg/kg	0.00687	0.00246	1	08/17/20 20:46	08/18/20 06:36	207-08-9	
Chrysene	**0.0822**	mg/kg	0.00687	0.00265	1	08/17/20 20:46	08/18/20 06:36	218-01-9	
Dibenz(a,h)anthracene	**0.0112**	mg/kg	0.00687	0.00197	1	08/17/20 20:46	08/18/20 06:36	53-70-3	
Fluoranthene	**0.127**	mg/kg	0.00687	0.00260	1	08/17/20 20:46	08/18/20 06:36	206-44-0	
• Fluorene	**0.00783**	mg/kg	0.00687	0.00235	1	08/17/20 20:46	08/18/20 06:36	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0677**	mg/kg	0.00687	0.00207	1	08/17/20 20:46	08/18/20 06:36	193-39-5	
Naphthalene	**0.0404**	mg/kg	0.0229	0.00467	1	08/17/20 20:46	08/18/20 06:36	91-20-3	
Phenanthrene	**0.0687**	mg/kg	0.00687	0.00264	1	08/17/20 20:46	08/18/20 06:36	85-01-8	
Pyrene	**0.104**	mg/kg	0.00687	0.00229	1	08/17/20 20:46	08/18/20 06:36	129-00-0	
1-Methylnaphthalene	**0.0358**	mg/kg	0.0229	0.00514	1	08/17/20 20:46	08/18/20 06:36	90-12-0	
2-Methylnaphthalene	**0.0449**	mg/kg	0.0229	0.00489	1	08/17/20 20:46	08/18/20 06:36	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	83.9	%	14.0-149		1	08/17/20 20:46	08/18/20 06:36	4165-60-0	
2-Fluorobiphenyl (S)	83.5	%	34.0-125		1	08/17/20 20:46	08/18/20 06:36	321-60-8	
Terphenyl-d14 (S)	88.3	%	23.0-120		1	08/17/20 20:46	08/18/20 06:36	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**18.9**	%	0.10	0.10	1		08/14/20 11:01		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**87.4**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**6.2**	mg/kg	1.1	0.44	1	08/17/20 10:08	08/19/20 09:31	7440-38-2	
Barium	**98.1**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 09:31	7440-39-3	J-
Cadmium	**0.063J**	mg/kg	0.33	0.051	1	08/17/20 10:08	08/19/20 09:31	7440-43-9	J
Chromium	**16.2**	mg/kg	1.1	0.85	1	08/17/20 10:08	08/19/20 09:31	7440-47-3	
Lead	**13.7**	mg/kg	1.1	0.50	1	08/17/20 10:08	08/19/20 09:31	7439-92-1	J
Selenium	**<0.67**	mg/kg	1.8	0.67	1	08/17/20 10:08	08/19/20 09:31	7782-49-2	
Silver	**<0.095**	mg/kg	0.67	0.095	1	08/17/20 10:08	08/19/20 09:31	7440-22-4	
Zinc	**41.6**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 09:31	7440-66-6	J

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 7.66 Pace Analytical Services - Greensburg								
Arsenic	**0.0042J**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 09:12	7440-38-2	3c J
Barium	**0.052**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 09:12	7440-39-3	3c,B
Cadmium	**0.00057J**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 09:12	7440-43-9	3c U*
Chromium	**0.0078J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 09:12	7440-47-3	3c J
Lead	**0.0045J**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 09:12	7439-92-1	3c J
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 09:12	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 09:12	7440-22-4	3c
Zinc	**0.019J**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 09:12	7440-66-6	3c,B U*
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 7.66 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 22:02	7439-97-6	UJ
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**<0.0057**	mg/kg	0.12	0.0057	1	08/17/20 11:58	08/17/20 22:14	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**0.00576J**	mg/kg	0.00724	0.00278	1	08/18/20 17:17	08/19/20 00:32	120-12-7	J
Acenaphthene	**<0.00252**	mg/kg	0.00724	0.00252	1	08/18/20 17:17	08/19/20 00:32	83-32-9	
Acenaphthylene	**<0.00261**	mg/kg	0.00724	0.00261	1	08/18/20 17:17	08/19/20 00:32	208-96-8	
Benzo(a)anthracene	**0.00690J**	mg/kg	0.00724	0.00209	1	08/18/20 17:17	08/19/20 00:32	56-55-3	J
Benzo(a)pyrene	**0.00442J**	mg/kg	0.00724	0.00216	1	08/18/20 17:17	08/19/20 00:32	50-32-8	J
Benzo(b)fluoranthene	**0.00560J**	mg/kg	0.00724	0.00185	1	08/18/20 17:17	08/19/20 00:32	205-99-2	J
Benzo(g,h,i)perylene	**0.00220J**	mg/kg	0.00724	0.00214	1	08/18/20 17:17	08/19/20 00:32	191-24-2	J
Benzo(k)fluoranthene	**0.00430J**	mg/kg	0.00724	0.00259	1	08/18/20 17:17	08/19/20 00:32	207-08-9	J
Chrysene	**0.00537J**	mg/kg	0.00724	0.00280	1	08/18/20 17:17	08/19/20 00:32	218-01-9	J
Dibenz(a,h)anthracene	**<0.00208**	mg/kg	0.00724	0.00208	1	08/18/20 17:17	08/19/20 00:32	53-70-3	
Fluoranthene	**0.00613J**	mg/kg	0.00724	0.00274	1	08/18/20 17:17	08/19/20 00:32	206-44-0	J
Fluorene	**<0.00247**	mg/kg	0.00724	0.00247	1	08/18/20 17:17	08/19/20 00:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.00334J**	mg/kg	0.00724	0.00218	1	08/18/20 17:17	08/19/20 00:32	193-39-5	J
Naphthalene	**<0.00492**	mg/kg	0.0241	0.00492	1	08/18/20 17:17	08/19/20 00:32	91-20-3	
Phenanthrene	**0.00386J**	mg/kg	0.00724	0.00279	1	08/18/20 17:17	08/19/20 00:32	85-01-8	J
Pyrene	**0.00596J**	mg/kg	0.00724	0.00241	1	08/18/20 17:17	08/19/20 00:32	129-00-0	J
1-Methylnaphthalene	**<0.00542**	mg/kg	0.0241	0.00542	1	08/18/20 17:17	08/19/20 00:32	90-12-0	
2-Methylnaphthalene	**<0.00515**	mg/kg	0.0241	0.00515	1	08/18/20 17:17	08/19/20 00:32	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	85.2	%	14.0-149		1	08/18/20 17:17	08/19/20 00:32	4165-60-0	
2-Fluorobiphenyl (S)	88.5	%	34.0-125		1	08/18/20 17:17	08/19/20 00:32	321-60-8	
Terphenyl-d14 (S)	85.3	%	23.0-120		1	08/18/20 17:17	08/19/20 00:32	1718-51-0	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.34								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 14:36	120-12-7	
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 14:36	83-32-9	
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 14:36	208-96-8	
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 14:36	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 14:36	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 14:36	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 14:36	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 14:36	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 14:36	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 14:36	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 14:36	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 14:36	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 14:36	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 14:36	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 14:36	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 14:36	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 14:36	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 14:36	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	96.0	%	31.0-160		2	08/21/20 07:13	08/21/20 14:36	4165-60-0	
2-Fluorobiphenyl (S)	90.5	%	48.0-148		2	08/21/20 07:13	08/21/20 14:36	321-60-8	
Terphenyl-d14 (S)	64.5	%	37.0-146		2	08/21/20 07:13	08/21/20 14:36	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**27.7**	ug/kg	8.7	2.8	1	08/19/20 12:46	08/20/20 02:16	67-64-1	
Benzene	**<0.76**	ug/kg	4.4	0.76	1	08/19/20 12:46	08/20/20 02:16	71-43-2	
Bromodichloromethane	**<0.95**	ug/kg	4.4	0.95	1	08/19/20 12:46	08/20/20 02:16	75-27-4	
Bromoform	**<0.58**	ug/kg	4.4	0.58	1	08/19/20 12:46	08/20/20 02:16	75-25-2	
Bromomethane	**<1.6**	ug/kg	4.4	1.6	1	08/19/20 12:46	08/20/20 02:16	74-83-9	1c UJ
2-Butanone (MEK)	**<0.80**	ug/kg	8.7	0.80	1	08/19/20 12:46	08/20/20 02:16	78-93-3	
Carbon disulfide	**9.7**	ug/kg	4.4	1.2	1	08/19/20 12:46	08/20/20 02:16	75-15-0	
Carbon tetrachloride	**<1.5**	ug/kg	4.4	1.5	1	08/19/20 12:46	08/20/20 02:16	56-23-5	
Chlorobenzene	**<0.68**	ug/kg	4.4	0.68	1	08/19/20 12:46	08/20/20 02:16	108-90-7	
Chloroethane	**<1.8**	ug/kg	4.4	1.8	1	08/19/20 12:46	08/20/20 02:16	75-00-3	
Chloroform	**<1.3**	ug/kg	4.4	1.3	1	08/19/20 12:46	08/20/20 02:16	67-66-3	
Chloromethane	**<1.5**	ug/kg	4.4	1.5	1	08/19/20 12:46	08/20/20 02:16	74-87-3	
Cyclohexane	**<1.6**	ug/kg	8.7	1.6	1	08/19/20 12:46	08/20/20 02:16	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/kg	4.4	1.0	1	08/19/20 12:46	08/20/20 02:16	96-12-8	
Dibromochloromethane	**<0.69**	ug/kg	4.4	0.69	1	08/19/20 12:46	08/20/20 02:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.70**	ug/kg	4.4	0.70	1	08/19/20 12:46	08/20/20 02:16	106-93-4	
1,2-Dichlorobenzene	**<0.52**	ug/kg	4.4	0.52	1	08/19/20 12:46	08/20/20 02:16	95-50-1	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,3-Dichlorobenzene	**<0.57**	ug/kg	4.4	0.57	1	08/19/20 12:46	08/20/20 02:16	541-73-1	
1,4-Dichlorobenzene	**<0.62**	ug/kg	4.4	0.62	1	08/19/20 12:46	08/20/20 02:16	106-46-7	
Dichlorodifluoromethane	**<2.4**	ug/kg	4.4	2.4	1	08/19/20 12:46	08/20/20 02:16	75-71-8	
1,1-Dichloroethane	**<1.1**	ug/kg	4.4	1.1	1	08/19/20 12:46	08/20/20 02:16	75-34-3	
1,2-Dichloroethane	**<1.1**	ug/kg	4.4	1.1	1	08/19/20 12:46	08/20/20 02:16	107-06-2	
1,1-Dichloroethene	**<1.6**	ug/kg	4.4	1.6	1	08/19/20 12:46	08/20/20 02:16	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/kg	4.4	1.0	1	08/19/20 12:46	08/20/20 02:16	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/kg	4.4	1.1	1	08/19/20 12:46	08/20/20 02:16	156-60-5	
1,2-Dichloropropane	**<0.63**	ug/kg	4.4	0.63	1	08/19/20 12:46	08/20/20 02:16	78-87-5	
cis-1,3-Dichloropropene	**<0.44**	ug/kg	4.4	0.44	1	08/19/20 12:46	08/20/20 02:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.91**	ug/kg	4.4	0.91	1	08/19/20 12:46	08/20/20 02:16	10061-02-6	
Ethylbenzene	**<0.94**	ug/kg	4.4	0.94	1	08/19/20 12:46	08/20/20 02:16	100-41-4	
2-Hexanone	**<0.86**	ug/kg	8.7	0.86	1	08/19/20 12:46	08/20/20 02:16	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/kg	4.4	1.0	1	08/19/20 12:46	08/20/20 02:16	98-82-8	
Methyl acetate	**<0.95**	ug/kg	43.7	0.95	1	08/19/20 12:46	08/20/20 02:16	79-20-9	~~1c~~ UJ
Methylcyclohexane	**<2.7**	ug/kg	8.7	2.7	1	08/19/20 12:46	08/20/20 02:16	108-87-2	
Methylene Chloride	**<3.7**	ug/kg	4.4	3.7	1	08/19/20 12:46	08/20/20 02:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.98**	ug/kg	8.7	0.98	1	08/19/20 12:46	08/20/20 02:16	108-10-1	
Methyl-tert-butyl ether	**<0.59**	ug/kg	4.4	0.59	1	08/19/20 12:46	08/20/20 02:16	1634-04-4	
Styrene	**<1.3**	ug/kg	4.4	1.3	1	08/19/20 12:46	08/20/20 02:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/kg	4.4	0.52	1	08/19/20 12:46	08/20/20 02:16	79-34-5	
Tetrachloroethene	**<1.5**	ug/kg	4.4	1.5	1	08/19/20 12:46	08/20/20 02:16	127-18-4	
Toluene	**<0.87**	ug/kg	4.4	0.87	1	08/19/20 12:46	08/20/20 02:16	108-88-3	
1,2,3-Trichlorobenzene	**<0.83**	ug/kg	4.4	0.83	1	08/19/20 12:46	08/20/20 02:16	87-61-6	
1,2,4-Trichlorobenzene	**<1.1**	ug/kg	4.4	1.1	1	08/19/20 12:46	08/20/20 02:16	120-82-1	
1,1,1-Trichloroethane	**<1.3**	ug/kg	4.4	1.3	1	08/19/20 12:46	08/20/20 02:16	71-55-6	
1,1,2-Trichloroethane	**<0.87**	ug/kg	4.4	0.87	1	08/19/20 12:46	08/20/20 02:16	79-00-5	
Trichloroethene	**<1.3**	ug/kg	4.4	1.3	1	08/19/20 12:46	08/20/20 02:16	79-01-6	
Trichlorofluoromethane	**<1.9**	ug/kg	4.4	1.9	1	08/19/20 12:46	08/20/20 02:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.9**	ug/kg	43.7	1.9	1	08/19/20 12:46	08/20/20 02:16	76-13-1	
1,2,4-Trimethylbenzene	**<2.1**	ug/kg	4.4	2.1	1	08/19/20 12:46	08/20/20 02:16	95-63-6	
1,3,5-Trimethylbenzene	**<1.8**	ug/kg	4.4	1.8	1	08/19/20 12:46	08/20/20 02:16	108-67-8	
Vinyl chloride	**<1.9**	ug/kg	4.4	1.9	1	08/19/20 12:46	08/20/20 02:16	75-01-4	
Xylene (Total)	**<2.8**	ug/kg	13.1	2.8	1	08/19/20 12:46	08/20/20 02:16	1330-20-7	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	08/19/20 12:46	08/20/20 02:16	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	08/19/20 12:46	08/20/20 02:16	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	08/19/20 12:46	08/20/20 02:16	17060-07-0	
Dibromofluoromethane (S)	106	%.	70-130		1	08/19/20 12:46	08/20/20 02:16	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20 Pace Analytical Services - Greensburg								
Acetone	**<31.8**	ug/L	100	31.8	10		08/19/20 17:27	67-64-1	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 17:27	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 17:27	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 17:27	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:27	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 17:27	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 17:27	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 17:27	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 17:27	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 17:27	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 17:27	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 17:27	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 17:27	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 17:27	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 17:27	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 17:27	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:27	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 17:27	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 17:27	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 17:27	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 17:27	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 17:27	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:27	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:27	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:27	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 17:27	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 17:27	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 17:27	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 17:27	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 17:27	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:27	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 17:27	79-20-9	UJ
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 17:27	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 17:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 17:27	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 17:27	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 17:27	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:27	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 17:27	127-18-4	
Toluene	**25.8J**	ug/L	50.0	9.9	10		08/19/20 17:27	108-88-3	J
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 17:27	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:27	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 17:27	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 17:27	79-00-5	

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB08 (8-12) **Lab ID: 30377174014** Collected: 08/11/20 14:50 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 17:27	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 17:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 17:27	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 17:27	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 17:27	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 17:27	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 17:27	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	70-130		10		08/19/20 17:27	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		08/19/20 17:27	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		10		08/19/20 17:27	460-00-4	
Dibromofluoromethane (S)	100	%.	70-130		10		08/19/20 17:27	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**17.0**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**82.9**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB03 (0-2) **Lab ID: 30377174015** Collected: 08/11/20 15:10 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**68.5**	mg/kg	1.1	0.42	1	08/17/20 10:08	08/19/20 09:33	7440-38-2	
Barium	**176**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 09:33	7440-39-3	J-
Cadmium	**1.3**	mg/kg	0.32	0.050	1	08/17/20 10:08	08/19/20 09:33	7440-43-9	
Chromium	**107**	mg/kg	1.1	0.82	1	08/17/20 10:08	08/19/20 09:33	7440-47-3	
Lead	**91.9**	mg/kg	1.1	0.49	1	08/17/20 10:08	08/19/20 09:33	7439-92-1	J
Selenium	**<0.65**	mg/kg	1.7	0.65	1	08/17/20 10:08	08/19/20 09:33	7782-49-2	
Silver	**<0.092**	mg/kg	0.65	0.092	1	08/17/20 10:08	08/19/20 09:33	7440-22-4	
Zinc	**82.8**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 09:33	7440-66-6	J
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A								
	Pace Analytical Services - Greensburg								
Mercury	**0.049J**	mg/kg	0.11	0.0055	1	08/17/20 11:58	08/17/20 22:16	7439-97-6	J

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (0-2) **Lab ID: 30377174015** Collected: 08/11/20 15:10 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Anthracene	**0.0237**	mg/kg	0.00695	0.00266	1	08/18/20 17:17	08/19/20 06:27	120-12-7	
Acenaphthene	**0.00782**	mg/kg	0.00695	0.00242	1	08/18/20 17:17	08/19/20 06:27	83-32-9	
Acenaphthylene	**<0.00250**	mg/kg	0.00695	0.00250	1	08/18/20 17:17	08/19/20 06:27	208-96-8	
Benzo(a)anthracene	**0.124**	mg/kg	0.00695	0.00200	1	08/18/20 17:17	08/19/20 06:27	56-55-3	
Benzo(a)pyrene	**0.123**	mg/kg	0.00695	0.00207	1	08/18/20 17:17	08/19/20 06:27	50-32-8	
Benzo(b)fluoranthene	**0.171**	mg/kg	0.00695	0.00177	1	08/18/20 17:17	08/19/20 06:27	205-99-2	
Benzo(g,h,i)perylene	**0.101**	mg/kg	0.00695	0.00205	1	08/18/20 17:17	08/19/20 06:27	191-24-2	
Benzo(k)fluoranthene	**0.0563**	mg/kg	0.00695	0.00249	1	08/18/20 17:17	08/19/20 06:27	207-08-9	
Chrysene	**0.129**	mg/kg	0.00695	0.00269	1	08/18/20 17:17	08/19/20 06:27	218-01-9	
Dibenz(a,h)anthracene	**0.0265**	mg/kg	0.00695	0.00199	1	08/18/20 17:17	08/19/20 06:27	53-70-3	
Fluoranthene	**0.193**	mg/kg	0.00695	0.00263	1	08/18/20 17:17	08/19/20 06:27	206-44-0	
Fluorene	**0.00963**	mg/kg	0.00695	0.00237	1	08/18/20 17:17	08/19/20 06:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0841**	mg/kg	0.00695	0.00210	1	08/18/20 17:17	08/19/20 06:27	193-39-5	
Naphthalene	**0.0495**	mg/kg	0.0232	0.00473	1	08/18/20 17:17	08/19/20 06:27	91-20-3	
Phenanthrene	**0.118**	mg/kg	0.00695	0.00268	1	08/18/20 17:17	08/19/20 06:27	85-01-8	
Pyrene	**0.187**	mg/kg	0.00695	0.00232	1	08/18/20 17:17	08/19/20 06:27	129-00-0	
1-Methylnaphthalene	**0.0568**	mg/kg	0.0232	0.00520	1	08/18/20 17:17	08/19/20 06:27	90-12-0	
2-Methylnaphthalene	**0.0692**	mg/kg	0.0232	0.00495	1	08/18/20 17:17	08/19/20 06:27	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	87.3	%	14.0-149		1	08/18/20 17:17	08/19/20 06:27	4165-60-0	
2-Fluorobiphenyl (S)	86.7	%	34.0-125		1	08/18/20 17:17	08/19/20 06:27	321-60-8	
Terphenyl-d14 (S)	91.2	%	23.0-120		1	08/18/20 17:17	08/19/20 06:27	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**14.4**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**86.3**	%			1	08/19/20 14:57	08/19/20 15:05		

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**8.4**	mg/kg	1.0	0.40	1	08/17/20 10:08	08/19/20 09:36	7440-38-2	
Barium	**59.3**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 09:36	7440-39-3	J-
Cadmium	**0.095J**	mg/kg	0.31	0.047	1	08/17/20 10:08	08/19/20 09:36	7440-43-9	J
Chromium	**13.4**	mg/kg	1.0	0.78	1	08/17/20 10:08	08/19/20 09:36	7440-47-3	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Lead	**7.6**	mg/kg	1.0	0.46	1	08/17/20 10:08	08/19/20 09:36	7439-92-1	J
Selenium	**<0.62**	mg/kg	1.6	0.62	1	08/17/20 10:08	08/19/20 09:36	7782-49-2	
Silver	**<0.087**	mg/kg	0.62	0.087	1	08/17/20 10:08	08/19/20 09:36	7440-22-4	
Zinc	**28.1**	mg/kg	2.1	1.1	1	08/17/20 10:08	08/19/20 09:36	7440-66-6	J
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 9.33 Pace Analytical Services - Greensburg								
Arsenic	**<0.0033**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 09:15	7440-38-2	3c
Barium	**0.013J**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 09:15	7440-39-3	3c,B U*
Cadmium	**0.00032J**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 09:15	7440-43-9	3c U*
Chromium	**0.0015J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 09:15	7440-47-3	3c J
Lead	**<0.0031**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 09:15	7439-92-1	3c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 09:15	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 09:15	7440-22-4	3c
Zinc	**0.0049J**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 09:15	7440-66-6	3c,B U*
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 9.33 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 22:03	7439-97-6	UJ
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.011J**	mg/kg	0.11	0.0053	1	08/17/20 11:58	08/17/20 22:17	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00275**	mg/kg	0.00716	0.00275	1	08/18/20 17:17	08/19/20 00:54	120-12-7	
Acenaphthene	**<0.00249**	mg/kg	0.00716	0.00249	1	08/18/20 17:17	08/19/20 00:54	83-32-9	
Acenaphthylene	**<0.00258**	mg/kg	0.00716	0.00258	1	08/18/20 17:17	08/19/20 00:54	208-96-8	
Benzo(a)anthracene	**<0.00207**	mg/kg	0.00716	0.00207	1	08/18/20 17:17	08/19/20 00:54	56-55-3	
Benzo(a)pyrene	**<0.00214**	mg/kg	0.00716	0.00214	1	08/18/20 17:17	08/19/20 00:54	50-32-8	
Benzo(b)fluoranthene	**<0.00183**	mg/kg	0.00716	0.00183	1	08/18/20 17:17	08/19/20 00:54	205-99-2	
Benzo(g,h,i)perylene	**<0.00211**	mg/kg	0.00716	0.00211	1	08/18/20 17:17	08/19/20 00:54	191-24-2	
Benzo(k)fluoranthene	**<0.00257**	mg/kg	0.00716	0.00257	1	08/18/20 17:17	08/19/20 00:54	207-08-9	
Chrysene	**<0.00277**	mg/kg	0.00716	0.00277	1	08/18/20 17:17	08/19/20 00:54	218-01-9	
Dibenz(a,h)anthracene	**<0.00205**	mg/kg	0.00716	0.00205	1	08/18/20 17:17	08/19/20 00:54	53-70-3	
Fluoranthene	**<0.00271**	mg/kg	0.00716	0.00271	1	08/18/20 17:17	08/19/20 00:54	206-44-0	
Fluorene	**<0.00245**	mg/kg	0.00716	0.00245	1	08/18/20 17:17	08/19/20 00:54	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00216**	mg/kg	0.00716	0.00216	1	08/18/20 17:17	08/19/20 00:54	193-39-5	
Naphthalene	**<0.00487**	mg/kg	0.0239	0.00487	1	08/18/20 17:17	08/19/20 00:54	91-20-3	
Phenanthrene	**<0.00276**	mg/kg	0.00716	0.00276	1	08/18/20 17:17	08/19/20 00:54	85-01-8	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Pyrene	**<0.00239**	mg/kg	0.00716	0.00239	1	08/18/20 17:17	08/19/20 00:54	129-00-0	
1-Methylnaphthalene	**<0.00536**	mg/kg	0.0239	0.00536	1	08/18/20 17:17	08/19/20 00:54	90-12-0	
2-Methylnaphthalene	**<0.00510**	mg/kg	0.0239	0.00510	1	08/18/20 17:17	08/19/20 00:54	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	89.1	%	14.0-149		1	08/18/20 17:17	08/19/20 00:54	4165-60-0	
2-Fluorobiphenyl (S)	91.4	%	34.0-125		1	08/18/20 17:17	08/19/20 00:54	321-60-8	
Terphenyl-d14 (S)	91.0	%	23.0-120		1	08/18/20 17:17	08/19/20 00:54	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.46								
	Pace National - Mt. Juliet								
Anthracene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 14:58	120-12-7	
Acenaphthene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 14:58	83-32-9	
Acenaphthylene	**<0.0171**	ug/L	0.0500	0.0171	1	08/21/20 07:13	08/21/20 14:58	208-96-8	
Benzo(a)anthracene	**<0.0203**	ug/L	0.0500	0.0203	1	08/21/20 07:13	08/21/20 14:58	56-55-3	
Benzo(a)pyrene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 14:58	50-32-8	
Benzo(b)fluoranthene	**<0.0168**	ug/L	0.0500	0.0168	1	08/21/20 07:13	08/21/20 14:58	205-99-2	
Benzo(g,h,i)perylene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 14:58	191-24-2	
Benzo(k)fluoranthene	**<0.0202**	ug/L	0.0500	0.0202	1	08/21/20 07:13	08/21/20 14:58	207-08-9	
Chrysene	**<0.0179**	ug/L	0.0500	0.0179	1	08/21/20 07:13	08/21/20 14:58	218-01-9	
Dibenz(a,h)anthracene	**<0.0160**	ug/L	0.0500	0.0160	1	08/21/20 07:13	08/21/20 14:58	53-70-3	
Fluoranthene	**<0.0270**	ug/L	0.100	0.0270	1	08/21/20 07:13	08/21/20 14:58	206-44-0	
Fluorene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 14:58	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0158**	ug/L	0.0500	0.0158	1	08/21/20 07:13	08/21/20 14:58	193-39-5	
Naphthalene	**<0.0917**	ug/L	0.250	0.0917	1	08/21/20 07:13	08/21/20 14:58	91-20-3	
Phenanthrene	**<0.0180**	ug/L	0.0500	0.0180	1	08/21/20 07:13	08/21/20 14:58	85-01-8	
Pyrene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 14:58	129-00-0	
1-Methylnaphthalene	**<0.0687**	ug/L	0.250	0.0687	1	08/21/20 07:13	08/21/20 14:58	90-12-0	
2-Methylnaphthalene	**<0.0674**	ug/L	0.250	0.0674	1	08/21/20 07:13	08/21/20 14:58	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	104	%	31.0-160		1	08/21/20 07:13	08/21/20 14:58	4165-60-0	
2-Fluorobiphenyl (S)	100	%	48.0-148		1	08/21/20 07:13	08/21/20 14:58	321-60-8	
Terphenyl-d14 (S)	101	%	37.0-146		1	08/21/20 07:13	08/21/20 14:58	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**75.5**	ug/kg	9.0	2.9	1	08/19/20 12:46	08/20/20 02:42	67-64-1	
Benzene	**<0.78**	ug/kg	4.5	0.78	1	08/19/20 12:46	08/20/20 02:42	71-43-2	
Bromodichloromethane	**<0.98**	ug/kg	4.5	0.98	1	08/19/20 12:46	08/20/20 02:42	75-27-4	
Bromoform	**<0.60**	ug/kg	4.5	0.60	1	08/19/20 12:46	08/20/20 02:42	75-25-2	
Bromomethane	**<1.7**	ug/kg	4.5	1.7	1	08/19/20 12:46	08/20/20 02:42	74-83-9	~~1c~~ UJ
2-Butanone (MEK)	**7.5J**	ug/kg	9.0	0.82	1	08/19/20 12:46	08/20/20 02:42	78-93-3	J
Carbon disulfide	**2.0J**	ug/kg	4.5	1.3	1	08/19/20 12:46	08/20/20 02:42	75-15-0	J
Carbon tetrachloride	**<1.6**	ug/kg	4.5	1.6	1	08/19/20 12:46	08/20/20 02:42	56-23-5	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Chlorobenzene	**<0.70**	ug/kg	4.5	0.70	1	08/19/20 12:46	08/20/20 02:42	108-90-7	
Chloroethane	**<1.9**	ug/kg	4.5	1.9	1	08/19/20 12:46	08/20/20 02:42	75-00-3	
Chloroform	**<1.4**	ug/kg	4.5	1.4	1	08/19/20 12:46	08/20/20 02:42	67-66-3	
Chloromethane	**<1.5**	ug/kg	4.5	1.5	1	08/19/20 12:46	08/20/20 02:42	74-87-3	
Cyclohexane	**<1.7**	ug/kg	9.0	1.7	1	08/19/20 12:46	08/20/20 02:42	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.1**	ug/kg	4.5	1.1	1	08/19/20 12:46	08/20/20 02:42	96-12-8	
Dibromochloromethane	**<0.71**	ug/kg	4.5	0.71	1	08/19/20 12:46	08/20/20 02:42	124-48-1	
1,2-Dibromoethane (EDB)	**<0.72**	ug/kg	4.5	0.72	1	08/19/20 12:46	08/20/20 02:42	106-93-4	
1,2-Dichlorobenzene	**<0.53**	ug/kg	4.5	0.53	1	08/19/20 12:46	08/20/20 02:42	95-50-1	
1,3-Dichlorobenzene	**<0.59**	ug/kg	4.5	0.59	1	08/19/20 12:46	08/20/20 02:42	541-73-1	
1,4-Dichlorobenzene	**<0.64**	ug/kg	4.5	0.64	1	08/19/20 12:46	08/20/20 02:42	106-46-7	
Dichlorodifluoromethane	**<2.4**	ug/kg	4.5	2.4	1	08/19/20 12:46	08/20/20 02:42	75-71-8	
1,1-Dichloroethane	**<1.1**	ug/kg	4.5	1.1	1	08/19/20 12:46	08/20/20 02:42	75-34-3	
1,2-Dichloroethane	**<1.2**	ug/kg	4.5	1.2	1	08/19/20 12:46	08/20/20 02:42	107-06-2	
1,1-Dichloroethene	**<1.7**	ug/kg	4.5	1.7	1	08/19/20 12:46	08/20/20 02:42	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/kg	4.5	1.0	1	08/19/20 12:46	08/20/20 02:42	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/kg	4.5	1.1	1	08/19/20 12:46	08/20/20 02:42	156-60-5	
1,2-Dichloropropane	**<0.65**	ug/kg	4.5	0.65	1	08/19/20 12:46	08/20/20 02:42	78-87-5	
cis-1,3-Dichloropropene	**<0.45**	ug/kg	4.5	0.45	1	08/19/20 12:46	08/20/20 02:42	10061-01-5	
trans-1,3-Dichloropropene	**<0.94**	ug/kg	4.5	0.94	1	08/19/20 12:46	08/20/20 02:42	10061-02-6	
Ethylbenzene	**<0.97**	ug/kg	4.5	0.97	1	08/19/20 12:46	08/20/20 02:42	100-41-4	
2-Hexanone	**<0.88**	ug/kg	9.0	0.88	1	08/19/20 12:46	08/20/20 02:42	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/kg	4.5	1.0	1	08/19/20 12:46	08/20/20 02:42	98-82-8	
Methyl acetate	**<0.98**	ug/kg	45.1	0.98	1	08/19/20 12:46	08/20/20 02:42	79-20-9	~~1c~~ UJ
Methylcyclohexane	**<2.8**	ug/kg	9.0	2.8	1	08/19/20 12:46	08/20/20 02:42	108-87-2	
Methylene Chloride	**<3.8**	ug/kg	4.5	3.8	1	08/19/20 12:46	08/20/20 02:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.0**	ug/kg	9.0	1.0	1	08/19/20 12:46	08/20/20 02:42	108-10-1	
Methyl-tert-butyl ether	**<0.60**	ug/kg	4.5	0.60	1	08/19/20 12:46	08/20/20 02:42	1634-04-4	
Styrene	**<1.3**	ug/kg	4.5	1.3	1	08/19/20 12:46	08/20/20 02:42	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.53**	ug/kg	4.5	0.53	1	08/19/20 12:46	08/20/20 02:42	79-34-5	
Tetrachloroethene	**<1.6**	ug/kg	4.5	1.6	1	08/19/20 12:46	08/20/20 02:42	127-18-4	
Toluene	**<0.89**	ug/kg	4.5	0.89	1	08/19/20 12:46	08/20/20 02:42	108-88-3	
1,2,3-Trichlorobenzene	**<0.86**	ug/kg	4.5	0.86	1	08/19/20 12:46	08/20/20 02:42	87-61-6	
1,2,4-Trichlorobenzene	**<1.1**	ug/kg	4.5	1.1	1	08/19/20 12:46	08/20/20 02:42	120-82-1	
1,1,1-Trichloroethane	**<1.4**	ug/kg	4.5	1.4	1	08/19/20 12:46	08/20/20 02:42	71-55-6	
1,1,2-Trichloroethane	**<0.89**	ug/kg	4.5	0.89	1	08/19/20 12:46	08/20/20 02:42	79-00-5	
Trichloroethene	**<1.3**	ug/kg	4.5	1.3	1	08/19/20 12:46	08/20/20 02:42	79-01-6	
Trichlorofluoromethane	**<1.9**	ug/kg	4.5	1.9	1	08/19/20 12:46	08/20/20 02:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.9**	ug/kg	45.1	1.9	1	08/19/20 12:46	08/20/20 02:42	76-13-1	
1,2,4-Trimethylbenzene	**<2.2**	ug/kg	4.5	2.2	1	08/19/20 12:46	08/20/20 02:42	95-63-6	
1,3,5-Trimethylbenzene	**<1.8**	ug/kg	4.5	1.8	1	08/19/20 12:46	08/20/20 02:42	108-67-8	
Vinyl chloride	**<1.9**	ug/kg	4.5	1.9	1	08/19/20 12:46	08/20/20 02:42	75-01-4	
Xylene (Total)	**<2.9**	ug/kg	13.5	2.9	1	08/19/20 12:46	08/20/20 02:42	1330-20-7	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	08/19/20 12:46	08/20/20 02:42	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/19/20 12:46	08/20/20 02:42	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	08/19/20 12:46	08/20/20 02:42	17060-07-0	
Dibromofluoromethane (S)	105	%.	70-130		1	08/19/20 12:46	08/20/20 02:42	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20 Pace Analytical Services - Greensburg								
Acetone	**<31.8**	ug/L	100	31.8	10		08/19/20 17:53	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 17:53	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 17:53	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 17:53	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:53	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 17:53	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 17:53	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 17:53	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 17:53	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 17:53	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 17:53	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 17:53	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 17:53	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 17:53	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 17:53	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 17:53	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:53	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 17:53	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 17:53	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 17:53	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 17:53	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 17:53	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 17:53	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:53	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:53	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 17:53	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 17:53	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 17:53	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 17:53	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 17:53	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 17:53	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 17:53	79-20-9	UJ
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 17:53	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 17:53	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 17:53	1634-04-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB03 (12-15) **Lab ID: 30377174016** Collected: 08/11/20 15:25 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 17:53	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 17:53	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 17:53	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 17:53	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 17:53	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 17:53	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 17:53	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 17:53	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 17:53	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 17:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 17:53	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 17:53	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 17:53	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 17:53	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 17:53	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	70-130		10		08/19/20 17:53	17060-07-0	
Toluene-d8 (S)	98	%.	70-130		10		08/19/20 17:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		08/19/20 17:53	460-00-4	
Dibromofluoromethane (S)	99	%.	70-130		10		08/19/20 17:53	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**14.4**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**83.8**	%			1	08/19/20 12:12	08/19/20 13:40		

Sample: SB06 (0-2) **Lab ID: 30377174017** Collected: 08/11/20 15:45 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**12.1**	mg/kg	1.1	0.42	1	08/17/20 10:08	08/19/20 09:45	7440-38-2	
Barium	**194**	mg/kg	2.1	0.13	1	08/17/20 10:08	08/19/20 09:45	7440-39-3	J-
Cadmium	**0.24J**	mg/kg	0.32	0.049	1	08/17/20 10:08	08/19/20 09:45	7440-43-9	J
Chromium	**19.7**	mg/kg	1.1	0.81	1	08/17/20 10:08	08/19/20 09:45	7440-47-3	
Lead	**25.0**	mg/kg	1.1	0.48	1	08/17/20 10:08	08/19/20 09:45	7439-92-1	J
Selenium	**<0.64**	mg/kg	1.7	0.64	1	08/17/20 10:08	08/19/20 09:45	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (0-2) **Lab ID: 30377174017** Collected: 08/11/20 15:45 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Silver	**<0.091**	mg/kg	0.64	0.091	1	08/17/20 10:08	08/19/20 09:45	7440-22-4	
Zinc	**71.8**	mg/kg	2.1	1.2	1	08/17/20 10:08	08/19/20 09:45	7440-66-6	J
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.061J**	mg/kg	0.12	0.0059	1	08/17/20 11:58	08/17/20 22:24	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**0.0864**	mg/kg	0.00745	0.00286	1	08/18/20 17:17	08/19/20 06:05	120-12-7	
Acenaphthene	**0.0344**	mg/kg	0.00745	0.00260	1	08/18/20 17:17	08/19/20 06:05	83-32-9	
Acenaphthylene	**<0.00268**	mg/kg	0.00745	0.00268	1	08/18/20 17:17	08/19/20 06:05	208-96-8	
Benzo(a)anthracene	**0.315**	mg/kg	0.00745	0.00215	1	08/18/20 17:17	08/19/20 06:05	56-55-3	
Benzo(a)pyrene	**0.272**	mg/kg	0.00745	0.00222	1	08/18/20 17:17	08/19/20 06:05	50-32-8	
Benzo(b)fluoranthene	**0.389**	mg/kg	0.00745	0.00190	1	08/18/20 17:17	08/19/20 06:05	205-99-2	
Benzo(g,h,i)perylene	**0.179**	mg/kg	0.00745	0.00220	1	08/18/20 17:17	08/19/20 06:05	191-24-2	
Benzo(k)fluoranthene	**0.111**	mg/kg	0.00745	0.00267	1	08/18/20 17:17	08/19/20 06:05	207-08-9	
Chrysene	**0.297**	mg/kg	0.00745	0.00288	1	08/18/20 17:17	08/19/20 06:05	218-01-9	
Dibenz(a,h)anthracene	**0.0503**	mg/kg	0.00745	0.00214	1	08/18/20 17:17	08/19/20 06:05	53-70-3	
Fluoranthene	**0.554**	mg/kg	0.0745	0.0282	10	08/18/20 17:17	08/19/20 07:21	206-44-0	
Fluorene	**0.0337**	mg/kg	0.00745	0.00255	1	08/18/20 17:17	08/19/20 06:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.169**	mg/kg	0.00745	0.00225	1	08/18/20 17:17	08/19/20 06:05	193-39-5	
Naphthalene	**0.0207J**	mg/kg	0.0248	0.00507	1	08/18/20 17:17	08/19/20 06:05	91-20-3	J
Phenanthrene	**0.324**	mg/kg	0.00745	0.00287	1	08/18/20 17:17	08/19/20 06:05	85-01-8	
Pyrene	**0.484**	mg/kg	0.00745	0.00248	1	08/18/20 17:17	08/19/20 06:05	129-00-0	
1-Methylnaphthalene	**0.0197J**	mg/kg	0.0248	0.00558	1	08/18/20 17:17	08/19/20 06:05	90-12-0	J
2-Methylnaphthalene	**0.0236J**	mg/kg	0.0248	0.00530	1	08/18/20 17:17	08/19/20 06:05	91-57-6	J
Surrogates									
Nitrobenzene-d5 (S)	77.4	%	14.0-149		1	08/18/20 17:17	08/19/20 06:05	4165-60-0	
Nitrobenzene-d5 (S)	69.5	%	14.0-149		10	08/18/20 17:17	08/19/20 07:21	4165-60-0	
2-Fluorobiphenyl (S)	82.1	%	34.0-125		1	08/18/20 17:17	08/19/20 06:05	321-60-8	
2-Fluorobiphenyl (S)	74.4	%	34.0-125		10	08/18/20 17:17	08/19/20 07:21	321-60-8	
Terphenyl-d14 (S)	91.2	%	23.0-120		1	08/18/20 17:17	08/19/20 06:05	1718-51-0	
Terphenyl-d14 (S)	81.0	%	23.0-120		10	08/18/20 17:17	08/19/20 07:21	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**20.7**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**80.5**	%			1	08/19/20 12:12	08/19/20 13:40		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (16-20) **Lab ID: 30377174018** Collected: 08/11/20 16:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**8.8**	mg/kg	1.1	0.44	1	08/17/20 10:08	08/19/20 09:48	7440-38-2	
Barium	**103**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 09:48	7440-39-3	
Cadmium	**0.17J**	mg/kg	0.34	0.052	1	08/17/20 10:08	08/19/20 09:48	7440-43-9	
Chromium	**13.7**	mg/kg	1.1	0.85	1	08/17/20 10:08	08/19/20 09:48	7440-47-3	
Lead	**16.1**	mg/kg	1.1	0.51	1	08/17/20 10:08	08/19/20 09:48	7439-92-1	
Selenium	**<0.67**	mg/kg	1.8	0.67	1	08/17/20 10:08	08/19/20 09:48	7782-49-2	
Silver	**<0.095**	mg/kg	0.67	0.095	1	08/17/20 10:08	08/19/20 09:48	7440-22-4	
Zinc	**46.4**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 09:48	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 8.27 Pace Analytical Services - Greensburg								
Arsenic	**0.0046J**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 09:24	7440-38-2	3c
Barium	**0.057**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 09:24	7440-39-3	3c,B
Cadmium	**0.00040J**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 09:24	7440-43-9	3c
Chromium	**0.0081J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 09:24	7440-47-3	3c
Lead	**0.0053J**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 09:24	7439-92-1	3c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 09:24	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 09:24	7440-22-4	3c
Zinc	**0.021J**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 09:24	7440-66-6	3c,B
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 8.27 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 22:05	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.031J**	mg/kg	0.12	0.0057	1	08/17/20 11:58	08/17/20 22:25	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00272**	mg/kg	0.00709	0.00272	1	08/18/20 17:17	08/19/20 01:16	120-12-7	
Acenaphthene	**<0.00247**	mg/kg	0.00709	0.00247	1	08/18/20 17:17	08/19/20 01:16	83-32-9	
Acenaphthylene	**<0.00255**	mg/kg	0.00709	0.00255	1	08/18/20 17:17	08/19/20 01:16	208-96-8	
Benzo(a)anthracene	**0.00443J**	mg/kg	0.00709	0.00204	1	08/18/20 17:17	08/19/20 01:16	56-55-3	J
Benzo(a)pyrene	**0.00462J**	mg/kg	0.00709	0.00211	1	08/18/20 17:17	08/19/20 01:16	50-32-8	J
Benzo(b)fluoranthene	**0.00586J**	mg/kg	0.00709	0.00181	1	08/18/20 17:17	08/19/20 01:16	205-99-2	J
Benzo(g,h,i)perylene	**0.00333J**	mg/kg	0.00709	0.00209	1	08/18/20 17:17	08/19/20 01:16	191-24-2	J
Benzo(k)fluoranthene	**<0.00254**	mg/kg	0.00709	0.00254	1	08/18/20 17:17	08/19/20 01:16	207-08-9	
Chrysene	**0.00484J**	mg/kg	0.00709	0.00274	1	08/18/20 17:17	08/19/20 01:16	218-01-9	J
Dibenz(a,h)anthracene	**<0.00203**	mg/kg	0.00709	0.00203	1	08/18/20 17:17	08/19/20 01:16	53-70-3	
Fluoranthene	**0.00991**	mg/kg	0.00709	0.00268	1	08/18/20 17:17	08/19/20 01:16	206-44-0	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (16-20) **Lab ID: 30377174018** Collected: 08/11/20 16:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Fluorene	**<0.00242**	mg/kg	0.00709	0.00242	1	08/18/20 17:17	08/19/20 01:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.00275J**	mg/kg	0.00709	0.00214	1	08/18/20 17:17	08/19/20 01:16	193-39-5	J
Naphthalene	**<0.00482**	mg/kg	0.0236	0.00482	1	08/18/20 17:17	08/19/20 01:16	91-20-3	
Phenanthrene	**0.00693J**	mg/kg	0.00709	0.00273	1	08/18/20 17:17	08/19/20 01:16	85-01-8	J
Pyrene	**0.00835**	mg/kg	0.00709	0.00236	1	08/18/20 17:17	08/19/20 01:16	129-00-0	
1-Methylnaphthalene	**<0.00530**	mg/kg	0.0236	0.00530	1	08/18/20 17:17	08/19/20 01:16	90-12-0	
2-Methylnaphthalene	**<0.00504**	mg/kg	0.0236	0.00504	1	08/18/20 17:17	08/19/20 01:16	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	78.8	%	14.0-149		1	08/18/20 17:17	08/19/20 01:16	4165-60-0	
2-Fluorobiphenyl (S)	82.3	%	34.0-125		1	08/18/20 17:17	08/19/20 01:16	321-60-8	
Terphenyl-d14 (S)	80.2	%	23.0-120		1	08/18/20 17:17	08/19/20 01:16	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.63								
	Pace National - Mt. Juliet								
Anthracene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 15:19	120-12-7	
Acenaphthene	**<0.0190**	ug/L	0.0500	0.0190	1	08/21/20 07:13	08/21/20 15:19	83-32-9	
Acenaphthylene	**<0.0171**	ug/L	0.0500	0.0171	1	08/21/20 07:13	08/21/20 15:19	208-96-8	
Benzo(a)anthracene	**<0.0203**	ug/L	0.0500	0.0203	1	08/21/20 07:13	08/21/20 15:19	56-55-3	
Benzo(a)pyrene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 15:19	50-32-8	
Benzo(b)fluoranthene	**<0.0168**	ug/L	0.0500	0.0168	1	08/21/20 07:13	08/21/20 15:19	205-99-2	
Benzo(g,h,i)perylene	**<0.0184**	ug/L	0.0500	0.0184	1	08/21/20 07:13	08/21/20 15:19	191-24-2	
Benzo(k)fluoranthene	**<0.0202**	ug/L	0.0500	0.0202	1	08/21/20 07:13	08/21/20 15:19	207-08-9	
Chrysene	**<0.0179**	ug/L	0.0500	0.0179	1	08/21/20 07:13	08/21/20 15:19	218-01-9	
Dibenz(a,h)anthracene	**<0.0160**	ug/L	0.0500	0.0160	1	08/21/20 07:13	08/21/20 15:19	53-70-3	
Fluoranthene	**<0.0270**	ug/L	0.100	0.0270	1	08/21/20 07:13	08/21/20 15:19	206-44-0	
Fluorene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 15:19	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0158**	ug/L	0.0500	0.0158	1	08/21/20 07:13	08/21/20 15:19	193-39-5	
Naphthalene	**<0.0917**	ug/L	0.250	0.0917	1	08/21/20 07:13	08/21/20 15:19	91-20-3	
Phenanthrene	**0.0225J**	ug/L	0.0500	0.0180	1	08/21/20 07:13	08/21/20 15:19	85-01-8	J
Pyrene	**<0.0169**	ug/L	0.0500	0.0169	1	08/21/20 07:13	08/21/20 15:19	129-00-0	
1-Methylnaphthalene	**<0.0687**	ug/L	0.250	0.0687	1	08/21/20 07:13	08/21/20 15:19	90-12-0	
2-Methylnaphthalene	**<0.0674**	ug/L	0.250	0.0674	1	08/21/20 07:13	08/21/20 15:19	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	102	%	31.0-160		1	08/21/20 07:13	08/21/20 15:19	4165-60-0	
2-Fluorobiphenyl (S)	96.5	%	48.0-148		1	08/21/20 07:13	08/21/20 15:19	321-60-8	
Terphenyl-d14 (S)	78.5	%	37.0-146		1	08/21/20 07:13	08/21/20 15:19	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**66.3**	ug/kg	33.5	10.6	1	08/20/20 11:16	08/20/20 13:09	67-64-1	U*
Benzene	**<2.9**	ug/kg	16.7	2.9	1	08/20/20 11:16	08/20/20 13:09	71-43-2	
Bromodichloromethane	**<3.6**	ug/kg	16.7	3.6	1	08/20/20 11:16	08/20/20 13:09	75-27-4	
Bromoform	**<2.2**	ug/kg	16.7	2.2	1	08/20/20 11:16	08/20/20 13:09	75-25-2	

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (16-20) **Lab ID: 30377174018** Collected: 08/11/20 16:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Bromomethane	**<6.2**	ug/kg	16.7	6.2	1	08/20/20 11:16	08/20/20 13:09	74-83-9	
2-Butanone (MEK)	**<3.0**	ug/kg	33.5	3.0	1	08/20/20 11:16	08/20/20 13:09	78-93-3	
Carbon disulfide	**6.7J**	ug/kg	16.7	4.8	1	08/20/20 11:16	08/20/20 13:09	75-15-0	J
Carbon tetrachloride	**<5.8**	ug/kg	16.7	5.8	1	08/20/20 11:16	08/20/20 13:09	56-23-5	
Chlorobenzene	**<2.6**	ug/kg	16.7	2.6	1	08/20/20 11:16	08/20/20 13:09	108-90-7	
Chloroethane	**<7.0**	ug/kg	16.7	7.0	1	08/20/20 11:16	08/20/20 13:09	75-00-3	
Chloroform	**<5.0**	ug/kg	16.7	5.0	1	08/20/20 11:16	08/20/20 13:09	67-66-3	
Chloromethane	**<5.7**	ug/kg	16.7	5.7	1	08/20/20 11:16	08/20/20 13:09	74-87-3	
Cyclohexane	**<6.3**	ug/kg	33.5	6.3	1	08/20/20 11:16	08/20/20 13:09	110-82-7	
1,2-Dibromo-3-chloropropane	**<4.0**	ug/kg	16.7	4.0	1	08/20/20 11:16	08/20/20 13:09	96-12-8	
Dibromochloromethane	**<2.6**	ug/kg	16.7	2.6	1	08/20/20 11:16	08/20/20 13:09	124-48-1	
1,2-Dibromoethane (EDB)	**<2.7**	ug/kg	16.7	2.7	1	08/20/20 11:16	08/20/20 13:09	106-93-4	
1,2-Dichlorobenzene	**<2.0**	ug/kg	16.7	2.0	1	08/20/20 11:16	08/20/20 13:09	95-50-1	
1,3-Dichlorobenzene	**<2.2**	ug/kg	16.7	2.2	1	08/20/20 11:16	08/20/20 13:09	541-73-1	
1,4-Dichlorobenzene	**<2.4**	ug/kg	16.7	2.4	1	08/20/20 11:16	08/20/20 13:09	106-46-7	
Dichlorodifluoromethane	**<9.1**	ug/kg	16.7	9.1	1	08/20/20 11:16	08/20/20 13:09	75-71-8	~~CH,IH~~
1,1-Dichloroethane	**<4.2**	ug/kg	16.7	4.2	1	08/20/20 11:16	08/20/20 13:09	75-34-3	
1,2-Dichloroethane	**<4.3**	ug/kg	16.7	4.3	1	08/20/20 11:16	08/20/20 13:09	107-06-2	
1,1-Dichloroethene	**<6.2**	ug/kg	16.7	6.2	1	08/20/20 11:16	08/20/20 13:09	75-35-4	
cis-1,2-Dichloroethene	**<3.9**	ug/kg	16.7	3.9	1	08/20/20 11:16	08/20/20 13:09	156-59-2	
trans-1,2-Dichloroethene	**<4.2**	ug/kg	16.7	4.2	1	08/20/20 11:16	08/20/20 13:09	156-60-5	
1,2-Dichloropropane	**<2.4**	ug/kg	16.7	2.4	1	08/20/20 11:16	08/20/20 13:09	78-87-5	
cis-1,3-Dichloropropene	**<1.7**	ug/kg	16.7	1.7	1	08/20/20 11:16	08/20/20 13:09	10061-01-5	
trans-1,3-Dichloropropene	**<3.5**	ug/kg	16.7	3.5	1	08/20/20 11:16	08/20/20 13:09	10061-02-6	
Ethylbenzene	**<3.6**	ug/kg	16.7	3.6	1	08/20/20 11:16	08/20/20 13:09	100-41-4	
2-Hexanone	**<3.3**	ug/kg	33.5	3.3	1	08/20/20 11:16	08/20/20 13:09	591-78-6	
Isopropylbenzene (Cumene)	**<3.9**	ug/kg	16.7	3.9	1	08/20/20 11:16	08/20/20 13:09	98-82-8	
Methyl acetate	**<3.6**	ug/kg	167	3.6	1	08/20/20 11:16	08/20/20 13:09	79-20-9	1c UJ
Methylcyclohexane	**11.8J**	ug/kg	33.5	10.4	1	08/20/20 11:16	08/20/20 13:09	108-87-2	J
Methylene Chloride	**<14.0**	ug/kg	16.7	14.0	1	08/20/20 11:16	08/20/20 13:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.7**	ug/kg	33.5	3.7	1	08/20/20 11:16	08/20/20 13:09	108-10-1	~~CL~~ UJ
Methyl-tert-butyl ether	**<2.2**	ug/kg	16.7	2.2	1	08/20/20 11:16	08/20/20 13:09	1634-04-4	
Styrene	**<4.8**	ug/kg	16.7	4.8	1	08/20/20 11:16	08/20/20 13:09	100-42-5	
1,1,2,2-Tetrachloroethane	**<2.0**	ug/kg	16.7	2.0	1	08/20/20 11:16	08/20/20 13:09	79-34-5	
Tetrachloroethene	**<5.8**	ug/kg	16.7	5.8	1	08/20/20 11:16	08/20/20 13:09	127-18-4	
Toluene	**<3.3**	ug/kg	16.7	3.3	1	08/20/20 11:16	08/20/20 13:09	108-88-3	
1,2,3-Trichlorobenzene	**<3.2**	ug/kg	16.7	3.2	1	08/20/20 11:16	08/20/20 13:09	87-61-6	
1,2,4-Trichlorobenzene	**<4.2**	ug/kg	16.7	4.2	1	08/20/20 11:16	08/20/20 13:09	120-82-1	
1,1,1-Trichloroethane	**<5.1**	ug/kg	16.7	5.1	1	08/20/20 11:16	08/20/20 13:09	71-55-6	
1,1,2-Trichloroethane	**<3.3**	ug/kg	16.7	3.3	1	08/20/20 11:16	08/20/20 13:09	79-00-5	
Trichloroethene	**<4.9**	ug/kg	16.7	4.9	1	08/20/20 11:16	08/20/20 13:09	79-01-6	
Trichlorofluoromethane	**<7.2**	ug/kg	16.7	7.2	1	08/20/20 11:16	08/20/20 13:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<7.2**	ug/kg	167	7.2	1	08/20/20 11:16	08/20/20 13:09	76-13-1	
1,2,4-Trimethylbenzene	**<8.2**	ug/kg	16.7	8.2	1	08/20/20 11:16	08/20/20 13:09	95-63-6	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (16-20) **Lab ID: 30377174018** Collected: 08/11/20 16:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
1,3,5-Trimethylbenzene	**<6.8**	ug/kg	16.7	6.8	1	08/20/20 11:16	08/20/20 13:09	108-67-8	
Vinyl chloride	**<7.2**	ug/kg	16.7	7.2	1	08/20/20 11:16	08/20/20 13:09	75-01-4	
Xylene (Total)	**<10.6**	ug/kg	50.2	10.6	1	08/20/20 11:16	08/20/20 13:09	1330-20-7	
Surrogates									
Toluene-d8 (S)	93	%.	70-130		1	08/20/20 11:16	08/20/20 13:09	2037-26-5	
4-Bromofluorobenzene (S)	114	%.	70-130		1	08/20/20 11:16	08/20/20 13:09	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%.	70-130		1	08/20/20 11:16	08/20/20 13:09	17060-07-0	
Dibromofluoromethane (S)	107	%.	70-130		1	08/20/20 11:16	08/20/20 13:09	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Acetone	**3490**	ug/L	100	31.8	10		08/19/20 18:19	67-64-1	~~C7~~ B
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 18:19	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 18:19	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 18:19	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 18:19	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 18:19	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 18:19	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 18:19	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 18:19	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 18:19	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 18:19	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 18:19	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 18:19	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 18:19	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 18:19	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 18:19	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 18:19	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 18:19	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 18:19	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 18:19	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 18:19	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 18:19	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 18:19	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 18:19	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 18:19	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 18:19	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 18:19	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 18:19	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 18:19	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 18:19	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 18:19	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 18:19	79-20-9	UJ
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 18:19	108-87-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB06 (16-20) **Lab ID: 30377174018** Collected: 08/11/20 16:05 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Methylene Chloride	**159**	ug/L	50.0	41.9	10		08/19/20 18:19	75-09-2	~~C7~~ U*
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 18:19	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 18:19	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 18:19	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 18:19	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 18:19	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 18:19	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 18:19	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 18:19	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 18:19	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 18:19	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 18:19	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 18:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 18:19	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 18:19	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 18:19	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 18:19	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 18:19	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%.	70-130		10		08/19/20 18:19	17060-07-0	
Toluene-d8 (S)	97	%.	70-130		10		08/19/20 18:19	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		08/19/20 18:19	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		08/19/20 18:19	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**20.5**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**84.7**	%			1	08/19/20 12:12	08/19/20 13:40		

Sample: SB04 (0-4) **Lab ID: 30377174019** Collected: 08/11/20 16:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B								
	Pace Analytical Services - Greensburg								
Arsenic	**11.2**	mg/kg	1.1	0.44	1	08/17/20 10:08	08/19/20 09:51	7440-38-2	
Barium	**78.7**	mg/kg	2.2	0.14	1	08/17/20 10:08	08/19/20 09:51	7440-39-3	
Cadmium	**0.11J**	mg/kg	0.34	0.051	1	08/17/20 10:08	08/19/20 09:51	7440-43-9	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (0-4) **Lab ID: 30377174019** Collected: 08/11/20 16:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Chromium	**24.6**	mg/kg	1.1	0.85	1	08/17/20 10:08	08/19/20 09:51	7440-47-3	
Lead	**14.0**	mg/kg	1.1	0.50	1	08/17/20 10:08	08/19/20 09:51	7439-92-1	J
Selenium	**<0.67**	mg/kg	1.8	0.67	1	08/17/20 10:08	08/19/20 09:51	7782-49-2	
Silver	**<0.095**	mg/kg	0.67	0.095	1	08/17/20 10:08	08/19/20 09:51	7440-22-4	
Zinc	**55.3**	mg/kg	2.2	1.2	1	08/17/20 10:08	08/19/20 09:51	7440-66-6	J
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.052J**	mg/kg	0.12	0.0059	1	08/17/20 11:58	08/17/20 22:27	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**0.00595J**	mg/kg	0.00767	0.00294	1	08/18/20 17:17	08/19/20 01:38	120-12-7	J
Acenaphthene	**<0.00267**	mg/kg	0.00767	0.00267	1	08/18/20 17:17	08/19/20 01:38	83-32-9	
Acenaphthylene	**<0.00276**	mg/kg	0.00767	0.00276	1	08/18/20 17:17	08/19/20 01:38	208-96-8	
Benzo(a)anthracene	**0.0224**	mg/kg	0.00767	0.00221	1	08/18/20 17:17	08/19/20 01:38	56-55-3	
Benzo(a)pyrene	**0.0233**	mg/kg	0.00767	0.00229	1	08/18/20 17:17	08/19/20 01:38	50-32-8	
Benzo(b)fluoranthene	**0.0308**	mg/kg	0.00767	0.00195	1	08/18/20 17:17	08/19/20 01:38	205-99-2	
Benzo(g,h,i)perylene	**0.0164**	mg/kg	0.00767	0.00226	1	08/18/20 17:17	08/19/20 01:38	191-24-2	
Benzo(k)fluoranthene	**0.00957**	mg/kg	0.00767	0.00275	1	08/18/20 17:17	08/19/20 01:38	207-08-9	
Chrysene	**0.0207**	mg/kg	0.00767	0.00296	1	08/18/20 17:17	08/19/20 01:38	218-01-9	
Dibenz(a,h)anthracene	**0.00344J**	mg/kg	0.00767	0.00220	1	08/18/20 17:17	08/19/20 01:38	53-70-3	J
Fluoranthene	**0.0382**	mg/kg	0.00767	0.00290	1	08/18/20 17:17	08/19/20 01:38	206-44-0	
Fluorene	**<0.00262**	mg/kg	0.00767	0.00262	1	08/18/20 17:17	08/19/20 01:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.0144**	mg/kg	0.00767	0.00231	1	08/18/20 17:17	08/19/20 01:38	193-39-5	
Naphthalene	**<0.00521**	mg/kg	0.0256	0.00521	1	08/18/20 17:17	08/19/20 01:38	91-20-3	
Phenanthrene	**0.0204**	mg/kg	0.00767	0.00295	1	08/18/20 17:17	08/19/20 01:38	85-01-8	
Pyrene	**0.0331**	mg/kg	0.00767	0.00256	1	08/18/20 17:17	08/19/20 01:38	129-00-0	
1-Methylnaphthalene	**<0.00574**	mg/kg	0.0256	0.00574	1	08/18/20 17:17	08/19/20 01:38	90-12-0	
2-Methylnaphthalene	**<0.00546**	mg/kg	0.0256	0.00546	1	08/18/20 17:17	08/19/20 01:38	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	83.0	%	14.0-149		1	08/18/20 17:17	08/19/20 01:38	4165-60-0	
2-Fluorobiphenyl (S)	87.5	%	34.0-125		1	08/18/20 17:17	08/19/20 01:38	321-60-8	
Terphenyl-d14 (S)	85.8	%	23.0-120		1	08/18/20 17:17	08/19/20 01:38	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**22.9**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**78.3**	%			1	08/19/20 12:12	08/19/20 13:40		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (20-24) **Lab ID: 30377174020** Collected: 08/11/20 17:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**5.3**	mg/kg	1.2	0.45	1	08/17/20 10:09	08/19/20 08:12	7440-38-2	
Barium	**101**	mg/kg	2.3	0.15	1	08/17/20 10:09	08/19/20 08:12	7440-39-3	MH J+
Cadmium	**0.13J**	mg/kg	0.35	0.053	1	08/17/20 10:09	08/19/20 08:12	7440-43-9	J
Chromium	**17.0**	mg/kg	1.2	0.88	1	08/17/20 10:09	08/19/20 08:12	7440-47-3	
Lead	**9.6**	mg/kg	1.2	0.52	1	08/17/20 10:09	08/19/20 08:12	7439-92-1	
Selenium	**<0.70**	mg/kg	1.9	0.70	1	08/17/20 10:09	08/19/20 08:12	7782-49-2	
Silver	**<0.099**	mg/kg	0.70	0.099	1	08/17/20 10:09	08/19/20 08:12	7440-22-4	
Zinc	**40.5**	mg/kg	2.3	1.3	1	08/17/20 10:09	08/19/20 08:12	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 8.52 Pace Analytical Services - Greensburg								
Arsenic	**0.0043J**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 08:58	7440-38-2	3c J
Barium	**0.10**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 08:58	7440-39-3	3c
Cadmium	**0.00049J**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 08:58	7440-43-9	3c U*
Chromium	**0.015J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 08:58	7440-47-3	3c J
Lead	**0.0086J**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 08:58	7439-92-1	3c
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 08:58	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 08:58	7440-22-4	3c
Zinc	**0.031**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 08:58	7440-66-6	3c,B
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 8.52 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 21:55	7439-97-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.023J**	mg/kg	0.12	0.0059	1	08/17/20 12:00	08/17/20 22:32	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00284**	mg/kg	0.00740	0.00284	1	08/18/20 17:17	08/19/20 02:01	120-12-7	
Acenaphthene	**<0.00258**	mg/kg	0.00740	0.00258	1	08/18/20 17:17	08/19/20 02:01	83-32-9	
Acenaphthylene	**<0.00266**	mg/kg	0.00740	0.00266	1	08/18/20 17:17	08/19/20 02:01	208-96-8	
Benzo(a)anthracene	**<0.00213**	mg/kg	0.00740	0.00213	1	08/18/20 17:17	08/19/20 02:01	56-55-3	
Benzo(a)pyrene	**<0.00221**	mg/kg	0.00740	0.00221	1	08/18/20 17:17	08/19/20 02:01	50-32-8	
Benzo(b)fluoranthene	**<0.00189**	mg/kg	0.00740	0.00189	1	08/18/20 17:17	08/19/20 02:01	205-99-2	
Benzo(g,h,i)perylene	**<0.00218**	mg/kg	0.00740	0.00218	1	08/18/20 17:17	08/19/20 02:01	191-24-2	
Benzo(k)fluoranthene	**<0.00265**	mg/kg	0.00740	0.00265	1	08/18/20 17:17	08/19/20 02:01	207-08-9	
Chrysene	**<0.00286**	mg/kg	0.00740	0.00286	1	08/18/20 17:17	08/19/20 02:01	218-01-9	
Dibenz(a,h)anthracene	**<0.00212**	mg/kg	0.00740	0.00212	1	08/18/20 17:17	08/19/20 02:01	53-70-3	
Fluoranthene	**<0.00280**	mg/kg	0.00740	0.00280	1	08/18/20 17:17	08/19/20 02:01	206-44-0	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (20-24) **Lab ID: 30377174020** Collected: 08/11/20 17:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Fluorene	**<0.00253**	mg/kg	0.00740	0.00253	1	08/18/20 17:17	08/19/20 02:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00223**	mg/kg	0.00740	0.00223	1	08/18/20 17:17	08/19/20 02:01	193-39-5	
Naphthalene	**<0.00503**	mg/kg	0.0247	0.00503	1	08/18/20 17:17	08/19/20 02:01	91-20-3	
Phenanthrene	**<0.00285**	mg/kg	0.00740	0.00285	1	08/18/20 17:17	08/19/20 02:01	85-01-8	
Pyrene	**<0.00247**	mg/kg	0.00740	0.00247	1	08/18/20 17:17	08/19/20 02:01	129-00-0	
1-Methylnaphthalene	**<0.00554**	mg/kg	0.0247	0.00554	1	08/18/20 17:17	08/19/20 02:01	90-12-0	
2-Methylnaphthalene	**<0.00527**	mg/kg	0.0247	0.00527	1	08/18/20 17:17	08/19/20 02:01	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	85.5	%	14.0-149		1	08/18/20 17:17	08/19/20 02:01	4165-60-0	
2-Fluorobiphenyl (S)	88.6	%	34.0-125		1	08/18/20 17:17	08/19/20 02:01	321-60-8	
Terphenyl-d14 (S)	90.9	%	23.0-120		1	08/18/20 17:17	08/19/20 02:01	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.71								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 15:40	120-12-7	UJ
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 15:40	83-32-9	UJ
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 15:40	208-96-8	UJ
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 15:40	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 15:40	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 15:40	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 15:40	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 15:40	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 15:40	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 15:40	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 15:40	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 15:40	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 15:40	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 15:40	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 15:40	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 15:40	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 15:40	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 15:40	91-57-6	UJ
Surrogates									
Nitrobenzene-d5 (S)	93.0	%	31.0-160		2	08/21/20 07:13	08/21/20 15:40	4165-60-0	
2-Fluorobiphenyl (S)	87.0	%	48.0-148		2	08/21/20 07:13	08/21/20 15:40	321-60-8	
Terphenyl-d14 (S)	28.2	%	37.0-146		2	08/21/20 07:13	08/21/20 15:40	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**16.4J**	ug/kg	17.2	5.5	1	08/20/20 11:16	08/20/20 13:31	67-64-1	~~B,R1~~ U*
Benzene	**<1.5**	ug/kg	8.6	1.5	1	08/20/20 11:16	08/20/20 13:31	71-43-2	
Bromodichloromethane	**<1.9**	ug/kg	8.6	1.9	1	08/20/20 11:16	08/20/20 13:31	75-27-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (20-24) **Lab ID: 30377174020** Collected: 08/11/20 17:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Bromoform	**<1.1**	ug/kg	8.6	1.1	1	08/20/20 11:16	08/20/20 13:31	75-25-2	
Bromomethane	**<3.2**	ug/kg	8.6	3.2	1	08/20/20 11:16	08/20/20 13:31	74-83-9	
2-Butanone (MEK)	**<1.6**	ug/kg	17.2	1.6	1	08/20/20 11:16	08/20/20 13:31	78-93-3	~~R1~~
Carbon disulfide	**<2.4**	ug/kg	8.6	2.4	1	08/20/20 11:16	08/20/20 13:31	75-15-0	
Carbon tetrachloride	**<3.0**	ug/kg	8.6	3.0	1	08/20/20 11:16	08/20/20 13:31	56-23-5	
Chlorobenzene	**<1.3**	ug/kg	8.6	1.3	1	08/20/20 11:16	08/20/20 13:31	108-90-7	
Chloroethane	**<3.6**	ug/kg	8.6	3.6	1	08/20/20 11:16	08/20/20 13:31	75-00-3	
Chloroform	**<2.6**	ug/kg	8.6	2.6	1	08/20/20 11:16	08/20/20 13:31	67-66-3	
Chloromethane	**<2.9**	ug/kg	8.6	2.9	1	08/20/20 11:16	08/20/20 13:31	74-87-3	
Cyclohexane	**<3.2**	ug/kg	17.2	3.2	1	08/20/20 11:16	08/20/20 13:31	110-82-7	
1,2-Dibromo-3-chloropropane	**<2.1**	ug/kg	8.6	2.1	1	08/20/20 11:16	08/20/20 13:31	96-12-8	
Dibromochloromethane	**<1.4**	ug/kg	8.6	1.4	1	08/20/20 11:16	08/20/20 13:31	124-48-1	
1,2-Dibromoethane (EDB)	**<1.4**	ug/kg	8.6	1.4	1	08/20/20 11:16	08/20/20 13:31	106-93-4	
1,2-Dichlorobenzene	**<1.0**	ug/kg	8.6	1.0	1	08/20/20 11:16	08/20/20 13:31	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/kg	8.6	1.1	1	08/20/20 11:16	08/20/20 13:31	541-73-1	
1,4-Dichlorobenzene	**<1.2**	ug/kg	8.6	1.2	1	08/20/20 11:16	08/20/20 13:31	106-46-7	
Dichlorodifluoromethane	**<4.7**	ug/kg	8.6	4.7	1	08/20/20 11:16	08/20/20 13:31	75-71-8	~~CH,IH~~
1,1-Dichloroethane	**<2.2**	ug/kg	8.6	2.2	1	08/20/20 11:16	08/20/20 13:31	75-34-3	
1,2-Dichloroethane	**<2.2**	ug/kg	8.6	2.2	1	08/20/20 11:16	08/20/20 13:31	107-06-2	
1,1-Dichloroethene	**<3.2**	ug/kg	8.6	3.2	1	08/20/20 11:16	08/20/20 13:31	75-35-4	
cis-1,2-Dichloroethene	**<2.0**	ug/kg	8.6	2.0	1	08/20/20 11:16	08/20/20 13:31	156-59-2	
trans-1,2-Dichloroethene	**<2.2**	ug/kg	8.6	2.2	1	08/20/20 11:16	08/20/20 13:31	156-60-5	
1,2-Dichloropropane	**<1.2**	ug/kg	8.6	1.2	1	08/20/20 11:16	08/20/20 13:31	78-87-5	
cis-1,3-Dichloropropene	**<0.86**	ug/kg	8.6	0.86	1	08/20/20 11:16	08/20/20 13:31	10061-01-5	
trans-1,3-Dichloropropene	**<1.8**	ug/kg	8.6	1.8	1	08/20/20 11:16	08/20/20 13:31	10061-02-6	
Ethylbenzene	**<1.9**	ug/kg	8.6	1.9	1	08/20/20 11:16	08/20/20 13:31	100-41-4	
2-Hexanone	**<1.7**	ug/kg	17.2	1.7	1	08/20/20 11:16	08/20/20 13:31	591-78-6	
Isopropylbenzene (Cumene)	**<2.0**	ug/kg	8.6	2.0	1	08/20/20 11:16	08/20/20 13:31	98-82-8	
Methyl acetate	**<1.9**	ug/kg	86.2	1.9	1	08/20/20 11:16	08/20/20 13:31	79-20-9	~~1c~~ UJ
Methylcyclohexane	**<5.4**	ug/kg	17.2	5.4	1	08/20/20 11:16	08/20/20 13:31	108-87-2	
Methylene Chloride	**<7.2**	ug/kg	8.6	7.2	1	08/20/20 11:16	08/20/20 13:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.9**	ug/kg	17.2	1.9	1	08/20/20 11:16	08/20/20 13:31	108-10-1	~~CL~~ UJ
Methyl-tert-butyl ether	**<1.2**	ug/kg	8.6	1.2	1	08/20/20 11:16	08/20/20 13:31	1634-04-4	
Styrene	**<2.5**	ug/kg	8.6	2.5	1	08/20/20 11:16	08/20/20 13:31	100-42-5	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/kg	8.6	1.0	1	08/20/20 11:16	08/20/20 13:31	79-34-5	
Tetrachloroethene	**<3.0**	ug/kg	8.6	3.0	1	08/20/20 11:16	08/20/20 13:31	127-18-4	
Toluene	**<1.7**	ug/kg	8.6	1.7	1	08/20/20 11:16	08/20/20 13:31	108-88-3	
1,2,3-Trichlorobenzene	**<1.6**	ug/kg	8.6	1.6	1	08/20/20 11:16	08/20/20 13:31	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/kg	8.6	2.2	1	08/20/20 11:16	08/20/20 13:31	120-82-1	
1,1,1-Trichloroethane	**<2.6**	ug/kg	8.6	2.6	1	08/20/20 11:16	08/20/20 13:31	71-55-6	
1,1,2-Trichloroethane	**<1.7**	ug/kg	8.6	1.7	1	08/20/20 11:16	08/20/20 13:31	79-00-5	
Trichloroethene	**<2.5**	ug/kg	8.6	2.5	1	08/20/20 11:16	08/20/20 13:31	79-01-6	
Trichlorofluoromethane	**<3.7**	ug/kg	8.6	3.7	1	08/20/20 11:16	08/20/20 13:31	75-69-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (20-24) **Lab ID: 30377174020** Collected: 08/11/20 17:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1,2-Trichlorotrifluoroethane	**<3.7**	ug/kg	86.2	3.7	1	08/20/20 11:16	08/20/20 13:31	76-13-1	
1,2,4-Trimethylbenzene	**<4.2**	ug/kg	8.6	4.2	1	08/20/20 11:16	08/20/20 13:31	95-63-6	
1,3,5-Trimethylbenzene	**<3.5**	ug/kg	8.6	3.5	1	08/20/20 11:16	08/20/20 13:31	108-67-8	
Vinyl chloride	**<3.7**	ug/kg	8.6	3.7	1	08/20/20 11:16	08/20/20 13:31	75-01-4	
Xylene (Total)	**<5.5**	ug/kg	25.9	5.5	1	08/20/20 11:16	08/20/20 13:31	1330-20-7	
Surrogates									
Toluene-d8 (S)	92	%.	70-130		1	08/20/20 11:16	08/20/20 13:31	2037-26-5	
4-Bromofluorobenzene (S)	108	%.	70-130		1	08/20/20 11:16	08/20/20 13:31	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130		1	08/20/20 11:16	08/20/20 13:31	17060-07-0	
Dibromofluoromethane (S)	107	%.	70-130		1	08/20/20 11:16	08/20/20 13:31	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20 Pace Analytical Services - Greensburg								
Acetone	**844**	ug/L	100	31.8	10		08/19/20 18:44	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 18:44	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 18:44	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 18:44	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 18:44	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 18:44	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 18:44	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 18:44	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 18:44	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 18:44	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 18:44	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 18:44	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 18:44	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 18:44	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 18:44	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 18:44	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 18:44	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 18:44	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 18:44	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 18:44	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 18:44	75-34-3	
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 18:44	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 18:44	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 18:44	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 18:44	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 18:44	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 18:44	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 18:44	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 18:44	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 18:44	591-78-6	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB04 (20-24) **Lab ID: 30377174020** Collected: 08/11/20 17:00 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM - Dilution due to matrix impact during extraction procedure

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 18:44	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 18:44	79-20-9	UJ
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 18:44	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 18:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 18:44	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 18:44	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 18:44	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 18:44	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 18:44	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 18:44	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 18:44	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 18:44	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 18:44	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 18:44	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 18:44	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 18:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 18:44	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 18:44	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 18:44	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 18:44	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 18:44	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	70-130		10		08/19/20 18:44	17060-07-0	
Toluene-d8 (S)	98	%.	70-130		10		08/19/20 18:44	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		08/19/20 18:44	460-00-4	
Dibromofluoromethane (S)	99	%.	70-130		10		08/19/20 18:44	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**23.1**	%	0.10	0.10	1		08/14/20 11:02		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**81.1**	%			1	08/19/20 12:12	08/19/20 13:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (0-2) **Lab ID: 30377174021** Collected: 08/11/20 17:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**2.4**	mg/kg	1.1	0.41	1	08/17/20 10:09	08/19/20 08:21	7440-38-2	
Barium	**78.1**	mg/kg	2.1	0.13	1	08/17/20 10:09	08/19/20 08:21	7440-39-3	J+
Cadmium	**0.12J**	mg/kg	0.32	0.049	1	08/17/20 10:09	08/19/20 08:21	7440-43-9	J
Chromium	**16.9**	mg/kg	1.1	0.81	1	08/17/20 10:09	08/19/20 08:21	7440-47-3	
Lead	**10.4**	mg/kg	1.1	0.48	1	08/17/20 10:09	08/19/20 08:21	7439-92-1	
Selenium	**<0.64**	mg/kg	1.7	0.64	1	08/17/20 10:09	08/19/20 08:21	7782-49-2	
Silver	**<0.090**	mg/kg	0.64	0.090	1	08/17/20 10:09	08/19/20 08:21	7440-22-4	
Zinc	**45.6**	mg/kg	2.1	1.1	1	08/17/20 10:09	08/19/20 08:21	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**0.020J**	mg/kg	0.12	0.0058	1	08/17/20 12:00	08/17/20 22:37	7439-97-6	J
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00284**	mg/kg	0.00741	0.00284	1	08/18/20 17:17	08/19/20 02:23	120-12-7	
Acenaphthene	**<0.00258**	mg/kg	0.00741	0.00258	1	08/18/20 17:17	08/19/20 02:23	83-32-9	
Acenaphthylene	**<0.00267**	mg/kg	0.00741	0.00267	1	08/18/20 17:17	08/19/20 02:23	208-96-8	
Benzo(a)anthracene	**<0.00214**	mg/kg	0.00741	0.00214	1	08/18/20 17:17	08/19/20 02:23	56-55-3	
Benzo(a)pyrene	**<0.00221**	mg/kg	0.00741	0.00221	1	08/18/20 17:17	08/19/20 02:23	50-32-8	
Benzo(b)fluoranthene	**<0.00189**	mg/kg	0.00741	0.00189	1	08/18/20 17:17	08/19/20 02:23	205-99-2	
Benzo(g,h,i)perylene	**<0.00219**	mg/kg	0.00741	0.00219	1	08/18/20 17:17	08/19/20 02:23	191-24-2	
Benzo(k)fluoranthene	**<0.00266**	mg/kg	0.00741	0.00266	1	08/18/20 17:17	08/19/20 02:23	207-08-9	
Chrysene	**<0.00287**	mg/kg	0.00741	0.00287	1	08/18/20 17:17	08/19/20 02:23	218-01-9	
Dibenz(a,h)anthracene	**<0.00213**	mg/kg	0.00741	0.00213	1	08/18/20 17:17	08/19/20 02:23	53-70-3	
Fluoranthene	**<0.00280**	mg/kg	0.00741	0.00280	1	08/18/20 17:17	08/19/20 02:23	206-44-0	
Fluorene	**<0.00253**	mg/kg	0.00741	0.00253	1	08/18/20 17:17	08/19/20 02:23	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00224**	mg/kg	0.00741	0.00224	1	08/18/20 17:17	08/19/20 02:23	193-39-5	
Naphthalene	**<0.00504**	mg/kg	0.0247	0.00504	1	08/18/20 17:17	08/19/20 02:23	91-20-3	
Phenanthrene	**<0.00285**	mg/kg	0.00741	0.00285	1	08/18/20 17:17	08/19/20 02:23	85-01-8	
Pyrene	**<0.00247**	mg/kg	0.00741	0.00247	1	08/18/20 17:17	08/19/20 02:23	129-00-0	
1-Methylnaphthalene	**<0.00555**	mg/kg	0.0247	0.00555	1	08/18/20 17:17	08/19/20 02:23	90-12-0	
2-Methylnaphthalene	**<0.00528**	mg/kg	0.0247	0.00528	1	08/18/20 17:17	08/19/20 02:23	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	85.4	%	14.0-149		1	08/18/20 17:17	08/19/20 02:23	4165-60-0	
2-Fluorobiphenyl (S)	89.9	%	34.0-125		1	08/18/20 17:17	08/19/20 02:23	321-60-8	
Terphenyl-d14 (S)	90.6	%	23.0-120		1	08/18/20 17:17	08/19/20 02:23	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**18.7**	%	0.10	0.10	1		08/17/20 08:44		

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (0-2) **Lab ID: 30377174021** Collected: 08/11/20 17:15 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G Pace National - Mt. Juliet								
Total Solids	**80.9**	%			1	08/19/20 12:12	08/19/20 13:40		

Sample: SB05 (16-20) **Lab ID: 30377174022** Collected: 08/11/20 17:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**18.5**	mg/kg	1.2	0.48	1	08/17/20 10:09	08/19/20 08:23	7440-38-2	
Barium	**39.3**	mg/kg	2.4	0.15	1	08/17/20 10:09	08/19/20 08:23	7440-39-3	J+
Cadmium	**0.073J**	mg/kg	0.37	0.056	1	08/17/20 10:09	08/19/20 08:23	7440-43-9	J
Chromium	**3.9**	mg/kg	1.2	0.93	1	08/17/20 10:09	08/19/20 08:23	7440-47-3	
Lead	**3.4**	mg/kg	1.2	0.55	1	08/17/20 10:09	08/19/20 08:23	7439-92-1	
Selenium	**<0.73**	mg/kg	2.0	0.73	1	08/17/20 10:09	08/19/20 08:23	7782-49-2	
Silver	**<0.10**	mg/kg	0.73	0.10	1	08/17/20 10:09	08/19/20 08:23	7440-22-4	
Zinc	**9.6**	mg/kg	2.4	1.3	1	08/17/20 10:09	08/19/20 08:23	7440-66-6	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 9.19 Pace Analytical Services - Greensburg								
Arsenic	**0.0061J**	mg/L	0.025	0.0033	1	08/20/20 11:40	08/21/20 09:27	7440-38-2	3c J
Barium	**0.049J**	mg/L	0.050	0.00055	1	08/20/20 11:40	08/21/20 09:27	7440-39-3	3c,B J
Cadmium	**<0.00027**	mg/L	0.015	0.00027	1	08/20/20 11:40	08/21/20 09:27	7440-43-9	3c
Chromium	**0.012J**	mg/L	0.025	0.00067	1	08/20/20 11:40	08/21/20 09:27	7440-47-3	3c J
Lead	**0.0055J**	mg/L	0.025	0.0031	1	08/20/20 11:40	08/21/20 09:27	7439-92-1	3c J
Selenium	**<0.0036**	mg/L	0.040	0.0036	1	08/20/20 11:40	08/21/20 09:27	7782-49-2	3c
Silver	**<0.00098**	mg/L	0.030	0.00098	1	08/20/20 11:40	08/21/20 09:27	7440-22-4	3c
Zinc	**0.019J**	mg/L	0.025	0.0034	1	08/20/20 11:40	08/21/20 09:27	7440-66-6	3c,B U*
7470 Mercury, SPLP	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1312; 08/19/20 10:24 Initial pH: ; Final pH: 9.19 Pace Analytical Services - Greensburg								
Mercury	**<0.030**	ug/L	1.0	0.030	1	08/20/20 13:20	08/20/20 22:07	7439-97-6	UJ
7471 Mercury	Analytical Method: EPA 7471A Preparation Method: EPA 7471A Pace Analytical Services - Greensburg								
Mercury	**<0.0056**	mg/kg	0.12	0.0056	1	08/17/20 12:00	08/17/20 22:39	7439-97-6	
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546 Pace National - Mt. Juliet								
Anthracene	**<0.00286**	mg/kg	0.00747	0.00286	1	08/18/20 17:17	08/19/20 03:29	120-12-7	

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (16-20) **Lab ID: 30377174022** Collected: 08/11/20 17:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270E-SIM	Analytical Method: EPA 8270E by SIM Preparation Method: 3546								
	Pace National - Mt. Juliet								
Acenaphthene	**<0.00260**	mg/kg	0.00747	0.00260	1	08/18/20 17:17	08/19/20 03:29	83-32-9	
Acenaphthylene	**<0.00269**	mg/kg	0.00747	0.00269	1	08/18/20 17:17	08/19/20 03:29	208-96-8	
Benzo(a)anthracene	**<0.00215**	mg/kg	0.00747	0.00215	1	08/18/20 17:17	08/19/20 03:29	56-55-3	
Benzo(a)pyrene	**<0.00223**	mg/kg	0.00747	0.00223	1	08/18/20 17:17	08/19/20 03:29	50-32-8	
Benzo(b)fluoranthene	**<0.00190**	mg/kg	0.00747	0.00190	1	08/18/20 17:17	08/19/20 03:29	205-99-2	
Benzo(g,h,i)perylene	**<0.00220**	mg/kg	0.00747	0.00220	1	08/18/20 17:17	08/19/20 03:29	191-24-2	
Benzo(k)fluoranthene	**<0.00268**	mg/kg	0.00747	0.00268	1	08/18/20 17:17	08/19/20 03:29	207-08-9	
Chrysene	**<0.00289**	mg/kg	0.00747	0.00289	1	08/18/20 17:17	08/19/20 03:29	218-01-9	
Dibenz(a,h)anthracene	**<0.00214**	mg/kg	0.00747	0.00214	1	08/18/20 17:17	08/19/20 03:29	53-70-3	
Fluoranthene	**<0.00283**	mg/kg	0.00747	0.00283	1	08/18/20 17:17	08/19/20 03:29	206-44-0	
Fluorene	**<0.00255**	mg/kg	0.00747	0.00255	1	08/18/20 17:17	08/19/20 03:29	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.00225**	mg/kg	0.00747	0.00225	1	08/18/20 17:17	08/19/20 03:29	193-39-5	
Naphthalene	**<0.00508**	mg/kg	0.0249	0.00508	1	08/18/20 17:17	08/19/20 03:29	91-20-3	
Phenanthrene	**<0.00287**	mg/kg	0.00747	0.00287	1	08/18/20 17:17	08/19/20 03:29	85-01-8	
Pyrene	**<0.00249**	mg/kg	0.00747	0.00249	1	08/18/20 17:17	08/19/20 03:29	129-00-0	
1-Methylnaphthalene	**<0.00559**	mg/kg	0.0249	0.00559	1	08/18/20 17:17	08/19/20 03:29	90-12-0	
2-Methylnaphthalene	**<0.00531**	mg/kg	0.0249	0.00531	1	08/18/20 17:17	08/19/20 03:29	91-57-6	
Surrogates									
Nitrobenzene-d5 (S)	83.9	%	14.0-149		1	08/18/20 17:17	08/19/20 03:29	4165-60-0	
2-Fluorobiphenyl (S)	88.2	%	34.0-125		1	08/18/20 17:17	08/19/20 03:29	321-60-8	
Terphenyl-d14 (S)	89.8	%	23.0-120		1	08/18/20 17:17	08/19/20 03:29	1718-51-0	
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.56								
	Pace National - Mt. Juliet								
Anthracene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 16:02	120-12-7	UJ
Acenaphthene	**<0.0380**	ug/L	0.100	0.0380	2	08/21/20 07:13	08/21/20 16:02	83-32-9	UJ
Acenaphthylene	**<0.0342**	ug/L	0.100	0.0342	2	08/21/20 07:13	08/21/20 16:02	208-96-8	UJ
Benzo(a)anthracene	**<0.0406**	ug/L	0.100	0.0406	2	08/21/20 07:13	08/21/20 16:02	56-55-3	
Benzo(a)pyrene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 16:02	50-32-8	
Benzo(b)fluoranthene	**<0.0336**	ug/L	0.100	0.0336	2	08/21/20 07:13	08/21/20 16:02	205-99-2	
Benzo(g,h,i)perylene	**<0.0368**	ug/L	0.100	0.0368	2	08/21/20 07:13	08/21/20 16:02	191-24-2	
Benzo(k)fluoranthene	**<0.0404**	ug/L	0.100	0.0404	2	08/21/20 07:13	08/21/20 16:02	207-08-9	
Chrysene	**<0.0358**	ug/L	0.100	0.0358	2	08/21/20 07:13	08/21/20 16:02	218-01-9	
Dibenz(a,h)anthracene	**<0.0320**	ug/L	0.100	0.0320	2	08/21/20 07:13	08/21/20 16:02	53-70-3	
Fluoranthene	**<0.0540**	ug/L	0.200	0.0540	2	08/21/20 07:13	08/21/20 16:02	206-44-0	
Fluorene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 16:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0316**	ug/L	0.100	0.0316	2	08/21/20 07:13	08/21/20 16:02	193-39-5	
Naphthalene	**<0.183**	ug/L	0.500	0.183	2	08/21/20 07:13	08/21/20 16:02	91-20-3	
Phenanthrene	**<0.0360**	ug/L	0.100	0.0360	2	08/21/20 07:13	08/21/20 16:02	85-01-8	
Pyrene	**<0.0338**	ug/L	0.100	0.0338	2	08/21/20 07:13	08/21/20 16:02	129-00-0	
1-Methylnaphthalene	**<0.137**	ug/L	0.500	0.137	2	08/21/20 07:13	08/21/20 16:02	90-12-0	
2-Methylnaphthalene	**<0.135**	ug/L	0.500	0.135	2	08/21/20 07:13	08/21/20 16:02	91-57-6	UJ

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(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (16-20) **Lab ID: 30377174022** Collected: 08/11/20 17:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270D-SIM SPLP	Analytical Method: EPA 8270D by SIM Preparation Method: 3511/8015								
	Leachate Method/Date: 1312; 08/18/20 13:54 Initial pH: ; Final pH: 7.56								
	Pace National - Mt. Juliet								
Surrogates									
Nitrobenzene-d5 (S)	95.5	%	31.0-160		2	08/21/20 07:13	08/21/20 16:02	4165-60-0	
2-Fluorobiphenyl (S)	86.5	%	48.0-148		2	08/21/20 07:13	08/21/20 16:02	321-60-8	
Terphenyl-d14 (S)	33.6	%	37.0-146		2	08/21/20 07:13	08/21/20 16:02	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A								
	Pace Analytical Services - Greensburg								
Acetone	**44.6**	ug/kg	15.1	4.8	1	08/20/20 11:16	08/20/20 14:35	67-64-1	~~B~~ U*
Benzene	**<1.3**	ug/kg	7.5	1.3	1	08/20/20 11:16	08/20/20 14:35	71-43-2	
Bromodichloromethane	**<1.6**	ug/kg	7.5	1.6	1	08/20/20 11:16	08/20/20 14:35	75-27-4	
Bromoform	**<0.99**	ug/kg	7.5	0.99	1	08/20/20 11:16	08/20/20 14:35	75-25-2	
Bromomethane	**<2.8**	ug/kg	7.5	2.8	1	08/20/20 11:16	08/20/20 14:35	74-83-9	
2-Butanone (MEK)	**<1.4**	ug/kg	15.1	1.4	1	08/20/20 11:16	08/20/20 14:35	78-93-3	
Carbon disulfide	**<2.1**	ug/kg	7.5	2.1	1	08/20/20 11:16	08/20/20 14:35	75-15-0	
Carbon tetrachloride	**<2.6**	ug/kg	7.5	2.6	1	08/20/20 11:16	08/20/20 14:35	56-23-5	
Chlorobenzene	**<1.2**	ug/kg	7.5	1.2	1	08/20/20 11:16	08/20/20 14:35	108-90-7	
Chloroethane	**<3.1**	ug/kg	7.5	3.1	1	08/20/20 11:16	08/20/20 14:35	75-00-3	
Chloroform	**<2.3**	ug/kg	7.5	2.3	1	08/20/20 11:16	08/20/20 14:35	67-66-3	
Chloromethane	**<2.5**	ug/kg	7.5	2.5	1	08/20/20 11:16	08/20/20 14:35	74-87-3	
Cyclohexane	**<2.8**	ug/kg	15.1	2.8	1	08/20/20 11:16	08/20/20 14:35	110-82-7	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/kg	7.5	1.8	1	08/20/20 11:16	08/20/20 14:35	96-12-8	
Dibromochloromethane	**<1.2**	ug/kg	7.5	1.2	1	08/20/20 11:16	08/20/20 14:35	124-48-1	
1,2-Dibromoethane (EDB)	**<1.2**	ug/kg	7.5	1.2	1	08/20/20 11:16	08/20/20 14:35	106-93-4	
1,2-Dichlorobenzene	**<0.89**	ug/kg	7.5	0.89	1	08/20/20 11:16	08/20/20 14:35	95-50-1	
1,3-Dichlorobenzene	**<0.98**	ug/kg	7.5	0.98	1	08/20/20 11:16	08/20/20 14:35	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/kg	7.5	1.1	1	08/20/20 11:16	08/20/20 14:35	106-46-7	
Dichlorodifluoromethane	**<4.1**	ug/kg	7.5	4.1	1	08/20/20 11:16	08/20/20 14:35	75-71-8	~~CH,IH~~
1,1-Dichloroethane	**<1.9**	ug/kg	7.5	1.9	1	08/20/20 11:16	08/20/20 14:35	75-34-3	
1,2-Dichloroethane	**<1.9**	ug/kg	7.5	1.9	1	08/20/20 11:16	08/20/20 14:35	107-06-2	
1,1-Dichloroethene	**<2.8**	ug/kg	7.5	2.8	1	08/20/20 11:16	08/20/20 14:35	75-35-4	
cis-1,2-Dichloroethene	**<1.7**	ug/kg	7.5	1.7	1	08/20/20 11:16	08/20/20 14:35	156-59-2	
trans-1,2-Dichloroethene	**<1.9**	ug/kg	7.5	1.9	1	08/20/20 11:16	08/20/20 14:35	156-60-5	
1,2-Dichloropropane	**<1.1**	ug/kg	7.5	1.1	1	08/20/20 11:16	08/20/20 14:35	78-87-5	
cis-1,3-Dichloropropene	**<0.75**	ug/kg	7.5	0.75	1	08/20/20 11:16	08/20/20 14:35	10061-01-5	
trans-1,3-Dichloropropene	**<1.6**	ug/kg	7.5	1.6	1	08/20/20 11:16	08/20/20 14:35	10061-02-6	
Ethylbenzene	**<1.6**	ug/kg	7.5	1.6	1	08/20/20 11:16	08/20/20 14:35	100-41-4	
2-Hexanone	**<1.5**	ug/kg	15.1	1.5	1	08/20/20 11:16	08/20/20 14:35	591-78-6	
Isopropylbenzene (Cumene)	**<1.7**	ug/kg	7.5	1.7	1	08/20/20 11:16	08/20/20 14:35	98-82-8	
Methyl acetate	**<1.6**	ug/kg	75.4	1.6	1	08/20/20 11:16	08/20/20 14:35	79-20-9	~~1c~~ UJ
Methylcyclohexane	**<4.7**	ug/kg	15.1	4.7	1	08/20/20 11:16	08/20/20 14:35	108-87-2	
Methylene Chloride	**<6.3**	ug/kg	7.5	6.3	1	08/20/20 11:16	08/20/20 14:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.7**	ug/kg	15.1	1.7	1	08/20/20 11:16	08/20/20 14:35	108-10-1	~~CL~~ UJ
Methyl-tert-butyl ether	**<1.0**	ug/kg	7.5	1.0	1	08/20/20 11:16	08/20/20 14:35	1634-04-4	

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (16-20) **Lab ID: 30377174022** Collected: 08/11/20 17:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Styrene	**<2.2**	ug/kg	7.5	2.2	1	08/20/20 11:16	08/20/20 14:35	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.89**	ug/kg	7.5	0.89	1	08/20/20 11:16	08/20/20 14:35	79-34-5	
Tetrachloroethene	**<2.6**	ug/kg	7.5	2.6	1	08/20/20 11:16	08/20/20 14:35	127-18-4	
Toluene	**<1.5**	ug/kg	7.5	1.5	1	08/20/20 11:16	08/20/20 14:35	108-88-3	
1,2,3-Trichlorobenzene	**<1.4**	ug/kg	7.5	1.4	1	08/20/20 11:16	08/20/20 14:35	87-61-6	
1,2,4-Trichlorobenzene	**<1.9**	ug/kg	7.5	1.9	1	08/20/20 11:16	08/20/20 14:35	120-82-1	
1,1,1-Trichloroethane	**<2.3**	ug/kg	7.5	2.3	1	08/20/20 11:16	08/20/20 14:35	71-55-6	
1,1,2-Trichloroethane	**<1.5**	ug/kg	7.5	1.5	1	08/20/20 11:16	08/20/20 14:35	79-00-5	
Trichloroethene	**<2.2**	ug/kg	7.5	2.2	1	08/20/20 11:16	08/20/20 14:35	79-01-6	
Trichlorofluoromethane	**<3.3**	ug/kg	7.5	3.3	1	08/20/20 11:16	08/20/20 14:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<3.2**	ug/kg	75.4	3.2	1	08/20/20 11:16	08/20/20 14:35	76-13-1	
1,2,4-Trimethylbenzene	**<3.7**	ug/kg	7.5	3.7	1	08/20/20 11:16	08/20/20 14:35	95-63-6	
1,3,5-Trimethylbenzene	**<3.1**	ug/kg	7.5	3.1	1	08/20/20 11:16	08/20/20 14:35	108-67-8	
Vinyl chloride	**<3.2**	ug/kg	7.5	3.2	1	08/20/20 11:16	08/20/20 14:35	75-01-4	
Xylene (Total)	**<4.8**	ug/kg	22.6	4.8	1	08/20/20 11:16	08/20/20 14:35	1330-20-7	
Surrogates									
Toluene-d8 (S)	94	%.	70-130		1	08/20/20 11:16	08/20/20 14:35	2037-26-5	
4-Bromofluorobenzene (S)	110	%.	70-130		1	08/20/20 11:16	08/20/20 14:35	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130		1	08/20/20 11:16	08/20/20 14:35	17060-07-0	
Dibromofluoromethane (S)	107	%.	70-130		1	08/20/20 11:16	08/20/20 14:35	1868-53-7	
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20 Pace Analytical Services - Greensburg								
Acetone	**<31.8**	ug/L	100	31.8	10		08/19/20 20:02	67-64-1	
Benzene	**<8.7**	ug/L	50.0	8.7	10		08/19/20 20:02	71-43-2	
Bromodichloromethane	**<10.9**	ug/L	50.0	10.9	10		08/19/20 20:02	75-27-4	
Bromoform	**<6.6**	ug/L	50.0	6.6	10		08/19/20 20:02	75-25-2	
Bromomethane	**<18.6**	ug/L	50.0	18.6	10		08/19/20 20:02	74-83-9	
2-Butanone (MEK)	**<9.1**	ug/L	100	9.1	10		08/19/20 20:02	78-93-3	
Carbon disulfide	**<14.2**	ug/L	50.0	14.2	10		08/19/20 20:02	75-15-0	
Carbon tetrachloride	**<17.2**	ug/L	50.0	17.2	10		08/19/20 20:02	56-23-5	
Chlorobenzene	**<7.8**	ug/L	50.0	7.8	10		08/19/20 20:02	108-90-7	
Chloroethane	**<20.9**	ug/L	50.0	20.9	10		08/19/20 20:02	75-00-3	
Chloroform	**<15.0**	ug/L	50.0	15.0	10		08/19/20 20:02	67-66-3	
Chloromethane	**<16.9**	ug/L	50.0	16.9	10		08/19/20 20:02	74-87-3	
Cyclohexane	**<18.8**	ug/L	100	18.8	10		08/19/20 20:02	110-82-7	
1,2-Dibromo-3-chloropropane	**<12.0**	ug/L	50.0	12.0	10		08/19/20 20:02	96-12-8	
Dibromochloromethane	**<7.9**	ug/L	50.0	7.9	10		08/19/20 20:02	124-48-1	
1,2-Dibromoethane (EDB)	**<8.0**	ug/L	50.0	8.0	10		08/19/20 20:02	106-93-4	
1,2-Dichlorobenzene	**<5.9**	ug/L	50.0	5.9	10		08/19/20 20:02	95-50-1	
1,3-Dichlorobenzene	**<6.5**	ug/L	50.0	6.5	10		08/19/20 20:02	541-73-1	
1,4-Dichlorobenzene	**<7.1**	ug/L	50.0	7.1	10		08/19/20 20:02	106-46-7	
Dichlorodifluoromethane	**<27.1**	ug/L	50.0	27.1	10		08/19/20 20:02	75-71-8	
1,1-Dichloroethane	**<12.6**	ug/L	50.0	12.6	10		08/19/20 20:02	75-34-3	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: SB05 (16-20) **Lab ID: 30377174022** Collected: 08/11/20 17:35 Received: 08/12/20 14:35 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 08/18/20 10:20								
	Pace Analytical Services - Greensburg								
1,2-Dichloroethane	**<12.9**	ug/L	50.0	12.9	10		08/19/20 20:02	107-06-2	
1,1-Dichloroethene	**<18.6**	ug/L	50.0	18.6	10		08/19/20 20:02	75-35-4	
cis-1,2-Dichloroethene	**<11.6**	ug/L	50.0	11.6	10		08/19/20 20:02	156-59-2	
trans-1,2-Dichloroethene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 20:02	156-60-5	
1,2-Dichloropropane	**<7.2**	ug/L	50.0	7.2	10		08/19/20 20:02	78-87-5	
cis-1,3-Dichloropropene	**<5.0**	ug/L	50.0	5.0	10		08/19/20 20:02	10061-01-5	
trans-1,3-Dichloropropene	**<10.4**	ug/L	50.0	10.4	10		08/19/20 20:02	10061-02-6	
Ethylbenzene	**<10.8**	ug/L	50.0	10.8	10		08/19/20 20:02	100-41-4	
2-Hexanone	**<9.8**	ug/L	100	9.8	10		08/19/20 20:02	591-78-6	
Isopropylbenzene (Cumene)	**<11.6**	ug/L	50.0	11.6	10		08/19/20 20:02	98-82-8	
Methyl acetate	**<10.9**	ug/L	500	10.9	10		08/19/20 20:02	79-20-9	UJ
Methylcyclohexane	**<31.1**	ug/L	100	31.1	10		08/19/20 20:02	108-87-2	
Methylene Chloride	**<41.9**	ug/L	50.0	41.9	10		08/19/20 20:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<11.2**	ug/L	100	11.2	10		08/19/20 20:02	108-10-1	
Methyl-tert-butyl ether	**<6.7**	ug/L	50.0	6.7	10		08/19/20 20:02	1634-04-4	
Styrene	**<14.4**	ug/L	50.0	14.4	10		08/19/20 20:02	100-42-5	
1,1,2,2-Tetrachloroethane	**<5.9**	ug/L	50.0	5.9	10		08/19/20 20:02	79-34-5	
Tetrachloroethene	**<17.3**	ug/L	50.0	17.3	10		08/19/20 20:02	127-18-4	
Toluene	**<9.9**	ug/L	50.0	9.9	10		08/19/20 20:02	108-88-3	
1,2,3-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		08/19/20 20:02	87-61-6	
1,2,4-Trichlorobenzene	**<12.7**	ug/L	50.0	12.7	10		08/19/20 20:02	120-82-1	
1,1,1-Trichloroethane	**<15.1**	ug/L	50.0	15.1	10		08/19/20 20:02	71-55-6	
1,1,2-Trichloroethane	**<9.9**	ug/L	50.0	9.9	10		08/19/20 20:02	79-00-5	
Trichloroethene	**<14.7**	ug/L	50.0	14.7	10		08/19/20 20:02	79-01-6	
Trichlorofluoromethane	**<21.6**	ug/L	50.0	21.6	10		08/19/20 20:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<21.5**	ug/L	500	21.5	10		08/19/20 20:02	76-13-1	
1,2,4-Trimethylbenzene	**<24.4**	ug/L	50.0	24.4	10		08/19/20 20:02	95-63-6	
1,3,5-Trimethylbenzene	**<20.3**	ug/L	50.0	20.3	10		08/19/20 20:02	108-67-8	
Vinyl chloride	**<21.5**	ug/L	50.0	21.5	10		08/19/20 20:02	75-01-4	
Xylene (Total)	**<31.7**	ug/L	150	31.7	10		08/19/20 20:02	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	70-130		10		08/19/20 20:02	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		08/19/20 20:02	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		10		08/19/20 20:02	460-00-4	
Dibromofluoromethane (S)	100	%.	70-130		10		08/19/20 20:02	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**19.9**	%	0.10	0.10	1		08/17/20 08:44		
Total Solids 2540 G-2011	Analytical Method: SM 2540G Preparation Method: SM 2540 G								
	Pace National - Mt. Juliet								
Total Solids	**80.4**	%			1	08/19/20 12:12	08/19/20 13:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: Trip Blank **Lab ID: 30377174023** Collected: 08/11/20 00:01 Received: 08/12/20 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Acetone	**<5.6**	ug/L	10.0	5.6	1		08/21/20 13:34	67-64-1	4c,CH, M5
Benzene	**<0.34**	ug/L	1.0	0.34	1		08/21/20 13:34	71-43-2	M5
Bromodichloromethane	**<0.35**	ug/L	1.0	0.35	1		08/21/20 13:34	75-27-4	M5
Bromoform	**<0.56**	ug/L	1.0	0.56	1		08/21/20 13:34	75-25-2	L2,M5 UJ
Bromomethane	**<0.73**	ug/L	1.0	0.73	1		08/21/20 13:34	74-83-9	M5
2-Butanone (MEK)	**<1.5**	ug/L	10.0	1.5	1		08/21/20 13:34	78-93-3	CH,L1, M5
Carbon disulfide	**<0.32**	ug/L	1.0	0.32	1		08/21/20 13:34	75-15-0	M5
Carbon tetrachloride	**<0.44**	ug/L	1.0	0.44	1		08/21/20 13:34	56-23-5	M5
Chlorobenzene	**<0.26**	ug/L	1.0	0.26	1		08/21/20 13:34	108-90-7	M5
Chloroethane	**<0.64**	ug/L	1.0	0.64	1		08/21/20 13:34	75-00-3	M5
Chloroform	**<0.39**	ug/L	1.0	0.39	1		08/21/20 13:34	67-66-3	M5
Chloromethane	**<0.40**	ug/L	1.0	0.40	1		08/21/20 13:34	74-87-3	CH,L1, M5
Cyclohexane	**<0.33**	ug/L	10.0	0.33	1		08/21/20 13:34	110-82-7	L1,M5
1,2-Dibromo-3-chloropropane	**<0.55**	ug/L	5.0	0.55	1		08/21/20 13:34	96-12-8	M5 UJ
Dibromochloromethane	**<0.43**	ug/L	1.0	0.43	1		08/21/20 13:34	124-48-1	M5
1,2-Dibromoethane (EDB)	**<0.44**	ug/L	1.0	0.44	1		08/21/20 13:34	106-93-4	M5
1,2-Dichlorobenzene	**<0.38**	ug/L	1.0	0.38	1		08/21/20 13:34	95-50-1	M5
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		08/21/20 13:34	541-73-1	M5
1,4-Dichlorobenzene	**<0.48**	ug/L	1.0	0.48	1		08/21/20 13:34	106-46-7	M5
Dichlorodifluoromethane	**<0.63**	ug/L	1.0	0.63	1		08/21/20 13:34	75-71-8	IH,M5
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		08/21/20 13:34	75-34-3	M5
1,2-Dichloroethane	**<0.33**	ug/L	1.0	0.33	1		08/21/20 13:34	107-06-2	M5
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		08/21/20 13:34	75-35-4	CH,M5
cis-1,2-Dichloroethene	**<0.38**	ug/L	1.0	0.38	1		08/21/20 13:34	156-59-2	M5
trans-1,2-Dichloroethene	**<0.28**	ug/L	1.0	0.28	1		08/21/20 13:34	156-60-5	CH,M5
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		08/21/20 13:34	78-87-5	M5
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		08/21/20 13:34	10061-01-5	M5
trans-1,3-Dichloropropene	**<0.32**	ug/L	1.0	0.32	1		08/21/20 13:34	10061-02-6	M5
Ethylbenzene	**<0.40**	ug/L	1.0	0.40	1		08/21/20 13:34	100-41-4	M5
2-Hexanone	**<0.58**	ug/L	10.0	0.58	1		08/21/20 13:34	591-78-6	M5
Isopropylbenzene (Cumene)	**<0.47**	ug/L	1.0	0.47	1		08/21/20 13:34	98-82-8	M5
Methyl acetate	**<0.55**	ug/L	5.0	0.55	1		08/21/20 13:34	79-20-9	M5
Methylcyclohexane	**<2.4**	ug/L	10.0	2.4	1		08/21/20 13:34	108-87-2	M5
Methylene Chloride	**<0.64**	ug/L	1.0	0.64	1		08/21/20 13:34	75-09-2	CH,M5
4-Methyl-2-pentanone (MIBK)	**<0.42**	ug/L	10.0	0.42	1		08/21/20 13:34	108-10-1	CH,M5
Methyl-tert-butyl ether	**<0.25**	ug/L	1.0	0.25	1		08/21/20 13:34	1634-04-4	M5
Styrene	**<0.33**	ug/L	1.0	0.33	1		08/21/20 13:34	100-42-5	M5
1,1,2,2-Tetrachloroethane	**<0.47**	ug/L	1.0	0.47	1		08/21/20 13:34	79-34-5	M5
Tetrachloroethene	**<0.39**	ug/L	1.0	0.39	1		08/21/20 13:34	127-18-4	M5
Toluene	**<0.32**	ug/L	1.0	0.32	1		08/21/20 13:34	108-88-3	M5
1,2,3-Trichlorobenzene	**<0.89**	ug/L	2.0	0.89	1		08/21/20 13:34	87-61-6	M5
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	0.73	1		08/21/20 13:34	120-82-1	M5
1,1,1-Trichloroethane	**<0.38**	ug/L	1.0	0.38	1		08/21/20 13:34	71-55-6	M5

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ANALYTICAL RESULTS

Project: Speedway ESA VRP
Pace Project No.: 30377174

Sample: Trip Blank **Lab ID: 30377174023** Collected: 08/11/20 00:01 Received: 08/12/20 14:35 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C								
	Pace Analytical Services - Greensburg								
1,1,2-Trichloroethane	**<0.33**	ug/L	1.0	0.33	1		08/21/20 13:34	79-00-5	M5
Trichloroethene	**<0.29**	ug/L	1.0	0.29	1		08/21/20 13:34	79-01-6	M5
Trichlorofluoromethane	**<0.51**	ug/L	1.0	0.51	1		08/21/20 13:34	75-69-4	M5
1,1,2-Trichlorotrifluoroethane	**<3.0**	ug/L	50.0	3.0	1		08/21/20 13:34	76-13-1	M5
1,2,4-Trimethylbenzene	**<0.63**	ug/L	1.0	0.63	1		08/21/20 13:34	95-63-6	M5
1,3,5-Trimethylbenzene	**<0.45**	ug/L	1.0	0.45	1		08/21/20 13:34	108-67-8	M5
Vinyl chloride	**<0.29**	ug/L	1.0	0.29	1		08/21/20 13:34	75-01-4	M5
Xylene (Total)	**<1.4**	ug/L	3.0	1.4	1		08/21/20 13:34	1330-20-7	M5
Surrogates									
4-Bromofluorobenzene (S)	92	%.	70-130		1		08/21/20 13:34	460-00-4	M5
1,2-Dichloroethane-d4 (S)	113	%.	70-130		1		08/21/20 13:34	17060-07-0	M5
Toluene-d8 (S)	94	%.	70-130		1		08/21/20 13:34	2037-26-5	M5
Dibromofluoromethane (S)	98	%.	70-130		1		08/21/20 13:34	1868-53-7	M5

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SECTION 3

FIELD DUPLICATE RESULTS

ENVIRONMENTAL STANDARDS, INC.
EVALUATION OF DUPLICATE RESULTS

Effective Date: 11/23/2015
Revision: 0

Matrix: ○ Aqueous ○ Non-aq.
Reporting Level: ○ MDL ○ QL
Units: mg/kg

PRECISION OBJECTIVES:
If Both Results ≥ 5 × Their QL, RPD ≤: 40
If Either Result < 5 × Its QL, Dif. ≤: 2 **× Highest QL**

Sample ID: SB02 (0-2) **Duplicate Sample ID:** SB02 (0-2)-FD

Analyte	Sample Concentration	Qual	QL	MDL	Duplicate Concentration	Qual	QL	MDL	Difference	RPD	Flag
Arsenic	12.3		1.1	0.42	11		1.1	0.42	NA	11%	
Barium	102		2.1	0.13	105		2.1	0.13	NA	3%	
Cadmium	0.1	J	0.32	0.049	0.094	J	0.32	0.049	NA	NA	
Chromium	26.1		1.1	0.81	27.3		1.1	0.81	NA	4%	
Lead	16.9		1.1	0.48	15.9		1.1	0.48	NA	6%	
Selenium	0.64	U	1.7	0.64	0.64	U	1.7	0.64	NA	NA	
Silver	0.091	U	0.64	0.091	0.091	U	0.64	0.091	NA	NA	
Zinc	56		2.1	1.2	55.4		2.1	1.2	NA	1%	
Mercury	0.067	J	0.12	0.0061	0.088	J	0.12	0.0061	NA	NA	

NOTES:

Qual: Qualifier(s) based on evaluation(s) other than Total/ vs. Dissolved comparison, if applicable (J, U, U* or B)
RPD: Relative Percent Difference
QL: Quantitation Limit
MDL: Method Detection Limit
RL: Reporting Limit. RL = QL for QL reporting and MDL for MDL reporting
J: The analyte concentration should be considered estimated
U: The analyte was not detected in the sample at or above the RL indicated. The RL will be used for comparison purposes.
UJ: The analyte was not detected in the sample at or above the Reporting Limit Indicated. The RL is approximate.
R: The analyte was analyzed for and detected, but sample results are unreliable. The presence or absence of the analyte cannot be verified.
UR: The analyte was analyzed for and not detected, but the determination that the analyte was not present in the sample is unreliable. The presence or absence of the analyte cannot be verified.
U* The result was blank qualified. The RL will be used for comparison purposes.
NA: The MDL (for QL reporting), RPD or Difference is not applicable

Comments:

ENVIRONMENTAL STANDARDS, INC.
EVALUATION OF DUPLICATE RESULTS

Effective Date: 11/23/2015
Revision: 0

Matrix: ○ Aqueous ○ Non-aq.
Reporting Level: ⊙ MDL ○ QL
Units: mg/kg

PRECISION OBJECTIVES:
If Both Results ≥ 5 × Their QL, RPD ≤: 40
If Either Result < 5 × Its QL, Dif. ≤: 2 **× Highest QL**

Sample ID: SB07 (20-24) **Duplicate Sample ID:** SB07 (20-24)-FD

Analyte	Sample Concentration	Qual	QL	MDL	Duplicate Concentration	Qual	QL	MDL	Difference	RPD	Flag
Arsenic	13.9		1.3	0.52	7.8		1.3	0.49	NA	56%	J
Barium	71.6		2.7	0.17	113		2.5	0.16	NA	45%	J
Cadmium	0.11	J	0.4	0.061	0.12	J	0.38	0.058	NA	NA	
Chromium	13.8		1.3	1	17.5		1.3	0.96	NA	24%	
Lead	7.4		1.3	0.6	10.6		1.3	0.57	NA	36%	
Selenium	0.8	U	2.1	0.8	0.76		2	0.76	NA	NA	
Silver	0.11	U	0.8	0.11	0.11		0.76	0.11	NA	NA	
Zinc	36.6		2.7	1.4	49.3		2.5	1.4	NA	30%	
Mercury	0.014	J	0.13	0.0065	0.031	J	0.13	0.0062	NA	NA	

NOTES:

Qual: Qualifier(s) based on evaluation(s) other than Total/ vs. Dissolved comparison, if applicable (J, U, U* or B)
RPD: Relative Percent Difference
QL: Quantitation Limit
MDL: Method Detection Limit
RL: Reporting Limit. RL = QL for QL reporting and MDL for MDL reporting
J: The analyte concentration should be considered estimated
U: The analyte was not detected in the sample at or above the RL indicated. The RL will be used for comparison purposes.
UJ: The analyte was not detected in the sample at or above the Reporting Limit Indicated. The RL is approximate.
R: The analyte was analyzed for and detected, but sample results are unreliable. The presence or absence of the analyte cannot be verified.
UR: The analyte was analyzed for and not detected, but the determination that the analyte was not present in the sample is unreliable. The presence or absence of the analyte cannot be verified.
U* The result was blank qualified. The RL will be used for comparison purposes.
NA: The MDL (for QL reporting), RPD or Difference is not applicable

Comments:

ENVIRONMENTAL STANDARDS, INC.
EVALUATION OF DUPLICATE RESULTS

Effective Date: 11/23/2015
Revision: 0

Matrix: ⦿ Aqueous ○ Non-aq.
Reporting Level: ⦿ MDL ○ QL
Units: µg/L

PRECISION OBJECTIVES:
If Both Results ≥ 5 × Their QL, RPD ≤: 20
If Either Result < 5 × Its QL, Dif. ≤: 1 **× Highest QL**

Sample ID: SB07 (20-24) **Duplicate Sample ID:** SB07 (20-24)-FD

Analyte	Sample Concentration	Qual	QL	MDL	Duplicate Concentration	Qual	QL	MDL	Difference	RPD	Flag
Arsenic	0.0039	J	0.025	0.0033	0.0049	J	0.025	0.0033	NA	NA	
Barium	0.054		0.05	0.00055	0.053		0.05	0.0006	0.001	NA	
Cadmium	0.00043	J	0.015	0.00027	0.00034	J	0.015	0.0003	NA	NA	
Chromium	0.0082	J	0.025	0.00067	0.0074	J	0.025	0.0007	NA	NA	
Lead	0.0031	U	0.025	0.0031	0.0036	J	0.025	0.0031	NA	NA	
Selenium	0.0036	U	0.04	0.0036	0.0036	U	0.04	0.0036	NA	NA	
Silver	0.00098	U	0.03	0.00098	0.00098	U	0.03	0.001	NA	NA	
Zinc	0.015	J	0.025	0.0034	0.014	J	0.025	0.0034	NA	NA	
Mercury	0.03	J	1	0.03	0.04	J	1	0.03	NA	NA	

NOTES:

Qual: Qualifier(s) based on evaluation(s) other than Total/ vs. Dissolved comparison, if applicable (J, U, U* or B)
RPD: Relative Percent Difference
QL: Quantitation Limit
MDL: Method Detection Limit
RL: Reporting Limit. RL = QL for QL reporting and MDL for MDL reporting
J: The analyte concentration should be considered estimated
U: The analyte was not detected in the sample at or above the RL indicated. The RL will be used for comparison purposes.
UJ: The analyte was not detected in the sample at or above the Reporting Limit Indicated. The RL is approximate.
R: The analyte was analyzed for and detected, but sample results are unreliable. The presence or absence of the analyte cannot be verified.
UR: The analyte was analyzed for and not detected, but the determination that the analyte was not present in the sample is unreliable. The presence or absence of the analyte cannot be verified.
U* The result was blank qualified. The RL will be used for comparison purposes.
NA: The MDL (for QL reporting), RPD or Difference is not applicable

Comments:

ENVIRONMENTAL STANDARDS, INC.
EVALUATION OF DUPLICATE RESULTS

Effective Date: 11/23/2015
Revision: 0

Matrix: ○ Aqueous ○ Non-aq.
Reporting Level: ⊙ MDL ○ QL
Units: mg/kg

PRECISION OBJECTIVES:
If Both Results ≥ 5 × Their QL, RPD ≤: 40
If Either Result < 5 × Its QL, Dif. ≤: 2 **× Highest QL**

Sample ID:	SB07 (20-24)				**Duplicate Sample ID:**	SB07 (20-24)-FD					
Analyte	**Sample Concentration**	**Qual**	**QL**	**MDL**	**Duplicate Concentration**	**Qual**	**QL**	**MDL**	**Difference**	**RPD**	**Flag**
Acetone	40.3		12.5	4	22.2		11.4	3.6	18.1	NA	
Carbon Disulfide	1.8	U	6.3	1.8	3.3	J	5.7	1.6	NA	NA	

NOTES:

Qual: Qualifier(s) based on evaluation(s) other than Total/ vs. Dissolved comparison, if applicable (J, U, U* or B)
RPD: Relative Percent Difference
QL: Quantitation Limit
MDL: Method Detection Limit
RL: Reporting Limit. RL = QL for QL reporting and MDL for MDL reporting
J: The analyte concentration should be considered estimated
U: The analyte was not detected in the sample at or above the RL indicated. The RL will be used for comparison purposes.
UJ: The analyte was not detected in the sample at or above the Reporting Limit Indicated. The RL is approximate.
R: The analyte was analyzed for and detected, but sample results are unreliable. The presence or absence of the analyte cannot be verified.
UR: The analyte was analyzed for and not detected, but the determination that the analyte was not present in the sample is unreliable. The presence or absence of the analyte cannot be verified.
U* The result was blank qualified. The RL will be used for comparison purposes.
NA: The MDL (for QL reporting), RPD or Difference is not applicable

Comments:

ENVIRONMENTAL STANDARDS, INC.
EVALUATION OF DUPLICATE RESULTS

Effective Date: 11/23/2015
Revision: 0

Matrix: ⦿ Aqueous ○ Non-aq.
Reporting Level: ⦿ MDL ○ QL
Units: µg/L

PRECISION OBJECTIVES:
If Both Results ≥ 5 × Their QL, RPD ≤: 20
If Either Result < 5 × Its QL, Dif. ≤: 1 **× Highest QL**

Sample ID: SB07 (20-24) **Duplicate Sample ID:** SB07 (20-24)-FD

Analyte	Sample Concentration	Qual	QL	MDL	Duplicate Concentration	Qual	QL	MDL	Difference	RPD	Flag
Acetone	72.4	J	100	31.8	52.9	J	100	31.8	NA	NA	

NOTES:

Qual: Qualifier(s) based on evaluation(s) other than Total/ vs. Dissolved comparison, if applicable (J, U, U* or B)
RPD: Relative Percent Difference
QL: Quantitation Limit
MDL: Method Detection Limit
RL: Reporting Limit. RL = QL for QL reporting and MDL for MDL reporting
J: The analyte concentration should be considered estimated
U: The analyte was not detected in the sample at or above the RL indicated. The RL will be used for comparison purposes.
UJ: The analyte was not detected in the sample at or above the Reporting Limit Indicated. The RL is approximate.
R: The analyte was analyzed for and detected, but sample results are unreliable. The presence or absence of the analyte cannot be verified.
UR: The analyte was analyzed for and not detected, but the determination that the analyte was not present in the sample is unreliable. The presence or absence of the analyte cannot be verified.
U* The result was blank qualified. The RL will be used for comparison purposes.
NA: The MDL (for QL reporting), RPD or Difference is not applicable

Comments:

ENVIRONMENTAL STANDARDS, INC.
EVALUATION OF DUPLICATE RESULTS

Effective Date: 11/23/2015
Revision: 0

Matrix: ○ Aqueous ○ Non-aq.
Reporting Level: ⊙ MDL ○ QL
Units: mg/kg

PRECISION OBJECTIVES:
If Both Results ≥ 5 × Their QL, RPD ≤: 40
If Either Result < 5 × Its QL, Dif. ≤: 2 **× Highest QL**

Sample ID:	SB02 (0-2)				**Duplicate Sample ID:**	SB02 (0-2)-FD					
Analyte	**Sample Concentration**	**Qual**	**QL**	**MDL**	**Duplicate Concentration**	**Qual**	**QL**	**MDL**	**Difference**	**RPD**	**Flag**
Anthracene	0.00285	U	0.00742	0.00285	0.00472	J	0.00768	0.0029	NA	NA	
benzo(a)anthracene	0.00286	J	0.00742	0.00214	0.00652	J	0.00768	0.0022	NA	NA	
benzo(a)pyrene	0.00228	J	0.00742	0.00221	0.0045	J	0.00768	0.0023	NA	NA	
benzo(b)fluoranthene	0.00278	J	0.00742	0.00189	0.00591	J	0.00768	0.002	NA	NA	
benzo(g,h,i)perylene	0.00219	U	0.00742	0.00219	0.00289	J	0.00768	0.0023	NA	NA	
chrysene	0.00287	U	0.00742	0.00287	0.00559	J	0.00768	0.003	NA	NA	
fluoranthene	0.00559	J	0.00742	0.00281	0.0146		0.00768	0.0029	0.00901	NA	
fluorene	0.00254	U	0.00742	0.00254	0.00271	J	0.00768	0.0026	NA	NA	
indeno(1,2,3-cd)pyrene	0.00224	U	0.00742	0.00224	0.00271	J	0.00768	0.0023	NA	NA	
phenanthrene	0.00382	J	0.00742	0.00286	0.0159		0.00768	0.003	0.01208	NA	
pyrene	0.00468	J	0.00742	0.00247	0.0109		0.00768	0.0026	0.00622	NA	

NOTES:

Qual: Qualifier(s) based on evaluation(s) other than Total/ vs. Dissolved comparison, if applicable (J, U, U* or B)
RPD: Relative Percent Difference
QL: Quantitation Limit
MDL: Method Detection Limit
RL: Reporting Limit. RL = QL for QL reporting and MDL for MDL reporting
J: The analyte concentration should be considered estimated
U: The analyte was not detected in the sample at or above the RL indicated. The RL will be used for comparison purposes.
UJ: The analyte was not detected in the sample at or above the Reporting Limit Indicated. The RL is approximate.
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U* The result was blank qualified. The RL will be used for comparison purposes.
NA: The MDL (for QL reporting), RPD or Difference is not applicable

Comments:

ENVIRONMENTAL STANDARDS, INC.
EVALUATION OF DUPLICATE RESULTS

Effective Date: 11/23/2015
Revision: 0

Matrix: ○ Aqueous ○ Non-aq.
Reporting Level: ⊙ MDL ○ QL
Units: mg/kg

PRECISION OBJECTIVES:
If Both Results ≥ 5 × Their QL, RPD ≤: 40
If Either Result < 5 × Its QL, Dif. ≤: 2 **× Highest QL**

Sample ID:	SB07 (20-24)				**Duplicate Sample ID:**	SB07 (20-24) FD					
Analyte	**Sample Concentration**	**Qual**	**QL**	**MDL**	**Duplicate Concentration**	**Qual**	**QL**	**MDL**	**Difference**	**RPD**	**Flag**
Soil											
All results ND											
SPLP											
All results ND											

NOTES:

Qual: Qualifier(s) based on evaluation(s) other than Total/ vs. Dissolved comparison, if applicable (J, U, U* or B)
RPD: Relative Percent Difference
QL: Quantitation Limit
MDL: Method Detection Limit
RL: Reporting Limit. RL = QL for QL reporting and MDL for MDL reporting
J: The analyte concentration should be considered estimated
U: The analyte was not detected in the sample at or above the RL indicated. The RL will be used for comparison purposes.
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U* The result was blank qualified. The RL will be used for comparison purposes.
NA: The MDL (for QL reporting), RPD or Difference is not applicable

Comments:

SECTION 4

LABORATORY CASE NARRATIVES

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

August 24, 2020

Leah Mistick
Environmental Standards, Inc.
1140 Valley Forge Road
Valley Forge, PA 19482

RE: Project: Speedway ESA VRP
Pace Project No.: 30377174

Dear Leah Mistick:

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Megan Smetanka

Megan J. Smetanka
megan.smetanka@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Ms. Lydia Work, Environmental Standards, Inc.

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without the written consent of Pace Analytical Services, LLC.

1 Cp
2 Tc
3 Ss
4 Cn
5 Su
6 Gl
7 Al
8 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Nancy F. McLain

Nancy McLain
Project Manager

Report Revision History

Level II Report - Version 1: 08/24/20 10:28

Sample Delivery Group (SDG) Narrative

Sample quantity was not sufficient to complete analysis per recommended method guidelines for the following samples.

Lab Sample ID	Project Sample ID	Method
L1250694-30	SB04 (20-24)	1312

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Speedway ESA VRP
Pace Project No.: 30377174

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 410079

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 410219

[1] The CCB for Cd is greater than the MDL for 30377174-010 for SPLP metals.

Batch: 410411

[1] The CCB for Cd is greater than the MDL for 30377174-012,014,016, and 020 for SPLP metals.

Batch: 410534

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	RF below method recommended limit.
2c	The CCB for Cd is greater than the MDL for 30377174-010 for SPLP metals.
3c	The CCB for Cd is greater than the MDL for 30377174-012,014,016, and 020 for SPLP metals.
4c	The minimum RF requirement for this compound was not met.
B	Analyte was detected in the associated method blank.
C7	Analyte is a possible laboratory contaminant (not present in method blank). Acetone and MeCl
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Speedway ESA VRP
Pace Project No.: 30377174

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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without the written consent of Pace Analytical Services, LLC.

SECTION 5

CHAIN-OF-CUSTODY RECORDS, RECEIPT INFORMATION, AND PROJECT CORRESPONDENCE

WO# : 30377174

Pace Analytical
WWW.PACELABS.COM

C
Th

30377174

Document
ist be completed accurately.

Page : 1 Of 2

Section A
Required Client Information:

Company:	ENVIRONMENTAL STANDARDS, INC.
Address:	1140 Valley Forge Road
	Valley Forge, PA 19482
Email:	lmistick@envstd.com
Phone:	610-935-5577 Fax:
Requested Due Date:	Standard TAT

Section B
Required Project Information:

Report To:	Leah Mistick (Lmistick@envstd.com)
Copy To:	Lydia Work (Lwork@envstd.com)
Purchase Order #:	
Project Name:	Speedway ESA VRP
Project #:	20198730

Invoice Information:

Attention:	Leah Mistick
Company Name:	ENVIRONMENTAL STANDARDS, INC.
Address:	1140 Valley Forge Road
Pace Quote:	
Pace Project Manager:	taylor.sullivan@pacelabs.com,
Pace Profile #:	4066-1

Regulatory Agency

State / Location: WV

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 VOCs	8270 PAH By SIM	6010 Metals 3 7471	SPLP (VOCs)	SPLP (PAH SIM)	SPLP (metals)	Residual Chlorine (Y/N)		
1	SB01 (0-2)	SL	G	8/11/20	0905				2											X	X					001	001
2	SB01 (4-8)	SL	G	8/11/20	0930				7										X	X	X	X	X	X		002, 003	002
3	SB02 (0-2)				1020				2											X	X					004	003
4	SB02 (0-2)-FD				1020				2											X	X					005	004
5	SB02 (14-15)				1050				7										X	X	X	X	X	X		006, 007	005
6	SB07 (0-2)				1125				2											X	X					008	006
7	SB07 (20-24)				1205				7										X	X	X	X	X	X		009, 010	007
8	SB07 (20-24)-FD				1205				7										X	X	X	X	X	X		011, 012	008
9	SB10 (0-2)				1330				2											X	X					013	009
10	SB10 (14-16)				1350				7										X	X	X	X	X	X		014, 015	010
11	SB09 (0-2)				1400				2											X	X					016	011
12	SB09 (16-20)				1415				7										X	X	X	X	X	X		017, 018	012 MJS 8-12-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS (CF=0.3)			
Level 4 data package for all samples; report to MDLs & correct for moisture	[signature] ESI	8-12-20	0945	[signature]	8/12/20	0945	3.2	Y	N	Y
	[signature] PACE	8/12/20	1300	[signature] PACE	8/12/20	13:00				
	[signature] PACE	8/12/20	14:35	Nicole Rund	8/12/2020	1435	6.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: LEAH MISTICK

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/11/20

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

30377174

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

Section A — Required Client Information:

Company:	ENVIRONMENTAL STANDARDS, INC.
Address:	1140 Valley Forge Road
	Valley Forge, PA 19482
Email:	lmistick@envstd.com
Phone:	610-935-5577 Fax:
Requested Due Date:	Standard TAT

Section B — Required Project Information:

Report To:	Leah Mistick (Lmistick@envstd.com)
Copy To:	Lydia Work (Lwork@envstd.com)
Purchase Order #:	
Project Name:	Speedway ESA VRP
Project #:	20198730

Section C — Invoice Information:

Attention:	Leah Mistick
Company Name:	ENVIRONMENTAL STANDARDS, INC.
Address:	1140 Valley Forge Road
Pace Quote:	
Pace Project Manager:	taylor.sullivan@pacelabs.com,
Pace Profile #:	4066-1

Regulatory Agency:

State / Location: WV

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 VOCs	8270 PAH by Sim	6010 Metals & 7471	SPLP (VOCs)	SPLP (PAH SIM)	SPLP (metals)	Residual Chlorine (Y/N)		
1	SB08 (0-2)	SL	G	8.11.20			1440		2										✓	X	X					MS/MSD ~~014~~	013
2	SB08 (8-12)						1450		7									✓	X	X	X	X	X	X		020, 021	014
3	SB03 (0-2)						1510		2										✓	X	X					022	015
4	SB03 (12-15)						1525		7									✓	X	X	X	X	X	X		023, 024	016
5	SB06 (0-2)						1545		2									✓		X	X					025	017
6	SB06 (16-20)						1605		7									✓	X	X	X	X	X	X		026, 027	018
7	SB04 (0-~~2~~4)						1635		2									✓		X	X					028	019
8	SB04 (20-24)						1700		7									✓	X	X	X	X	X	X		MS/MSD ~~029, 030~~	020
9	SB05 (0-2)						1715		2									✓		X	X					031	021
10	SB05 (16-20)						1735		7									✓	X	X	X	X	X	X		032	022
11																											
12	trip Blank																	✓	X							033	023 MJS 8-12-20

Logged as 00:01

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS (cf -0.3) TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Level 4 data	[signature] ESI	8-12-20	0945	[signature]	8/12/20	0945	3.2	Y	N	Y
packages for all	[signature]	8/12/20	1700	[signature] PACE	8/12/20	13:00				
samples; report to MDLS	[signature] PACE	8/12/20	14:35	[signature]	8/12/2020	1435	6.0	Y	N	Y
correct for % moisture										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leah Mistick

SIGNATURE of SAMPLER: [signature] DATE Signed: 8-11-20

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Envlro. Stand. Project # 30377174

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Label MJS
LIMS Login MJS

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 5.7 °C Correction Factor: +0.3 °C Final Temp: 6.0 °C

Temp should be above freezing to 6°C

pH paper Lot# NA

Date and Initials of person examining contents: nmr 8/12/2020

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4. nmr 8/12/2020
Sample Labels match COC: -Includes date/time/ID Matrix: SL		✓		5. ID on Sample ~~#5~~ 005 is SB02 & ID on Sample 008
Samples Arrived within Hold Time:	✓			6. is SB07(20-25)-FD
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.
All containers meet method preservation requirements.	✓			Initial when completed NMR Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):			✓	17.
Trip Blank Present:	✓	X		18. nmr 8/12/2020
Trip Blank Custody Seals Present	✓			
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

J:\QAQC\Master\Document Management\Sample Mgt\Sample Condition Upon Receipt Pittsburgh (C056-9 5April2019)

L1250694

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: WV
Cert. Needed: [X] Yes ☐ No
Owner Received Date: 8/12/2020 Results Requested By: 8/21/2020

Workorder: 30377174 **Workorder Name:** Speedway ESA VRP

Report To

Megan J. Smetanka
Pace Analytical Pittsburgh
1638 Roseytown Road
Suites 2,3,4
Greensburg, PA 15601
Phone (724)850-5600

Subcontract To

Pace Analytical National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615)758-5858

Reported on Analysis Reports

Reported on Pace National F1s.

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	PAH	SPLP PAH	LAB USE ONLY
1	SB01 (0-2)	PS	8/11/2020 09:05	30377174001	Solid	1	X		-01
2	SB01 (4-8)	PS	8/11/2020 09:30	30377174002	Solid	1	X	X	-02,03
3	SB02 (0-2)	PS	8/11/2020 10:20	30377174003	Solid	1	X		-04
4	SB02 (0-2)-FD	PS	8/11/2020 10:20	30377174004	Solid	1	X		-05
5	SB02 (14-15)	PS	8/11/2020 10:50	30377174005	Solid	1	X	X	-06,07
6	SB07 (0-2)	PS	8/11/2020 11:25	30377174006	Solid	1	X		-08
7	SB07 (20-24)	PS	8/11/2020 12:05	30377174007	Solid	1	X	X	-09,10
8	SB07 (20-24)-FD	PS	8/11/2020 12:05	30377174008	Solid	1	X	X	-11,12
9	SB10 (0-2)	PS	8/11/2020 13:30	30377174009	Solid	1	X		-13
10	SB10 (14-16)	PS	8/11/2020 13:50	30377174010	Solid	1	X	X	-14,15
11	SB09 (0-2)	PS	8/11/2020 14:00	30377174011	Solid	1	X		-16
12	SB09 (16-20)	PS	8/11/2020 14:15	30377174012	Solid	1	X	X	-17,18
13	SB08 (0-2)	RQS	8/11/2020 14:40	30377174013	Solid	1	X		-19
14	SB08 (8-12)	PS	8/11/2020 14:50	30377174014	Solid	1	X	X	-20,21
15	SB03 (0-2)	PS	8/11/2020 15:10	30377174015	Solid	1	X		-22
16	SB03 (12-15)	PS	8/11/2020 15:25	30377174016	Solid	1	X	X	-23,24
17	SB06 (0-2)	PS	8/11/2020 15:45	30377174017	Solid	1	X		-25
18	SB06 (16-20)	PS	8/11/2020 16:05	30377174018	Solid	1	X	X	-26,27
19	SB04 (0-4)	PS	8/11/2020 16:35	30377174019	Solid	1	X		-28

L1250694

Internal Transfer Chain of Custody

Pace Analytical®
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☐ Samples Pre-Logged into eCOC.

State Of Origin: WV
Cert. Needed: ☒ Yes ☐ No

Workorder: 30377174 **Workorder Name:** Speedway ESA VRP

Owner Received Date: 8/12/2020 **Results Requested By:** 8/21/2020

Report To

Megan J. Smetanka
Pace Analytical Pittsburgh
1638 Roseytown Road
Suites 2,3,4
Greensburg, PA 15601
Phone (724)850-5600

Subcontract To

Pace Analytical National
12065 Lebanon Rd
Mt. Juliet, TN 37122
Phone (615)758-5858

Requested Analysis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						PAH	SPLP PAH											LAB USE ONLY
20	SB04 (20-24)	RQS	8/11/2020 17:00	30377174020	Solid	1						X	X											-29,30
21	SB05 (0-2)	PS	8/11/2020 17:15	30377174021	Solid	1						X												-31
22	SB05 (16-20)	PS	8/11/2020 17:35	30377174022	Solid	1						X	X											-32,33
23																								
24																								

Transfers	Released By	Date/Time	Received By	Date/Time
1	Ben Martin	8-13-20 1600	B. Barnes 8-14-20	0900
2				
3				

Comments

Cooler Temperature on Receipt 1.2 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

1.2+0=1.2 AG

A114

L1250694

TABLE 3. COPC Lists and Laboratory Reporting Limits (RLs)

Speedway Business Park Addition Property
1496/1500 Speedway Avenue, Grant BF-963604-01-0
Fairmont, Marion County, West Virginia

Metals	CAS No.	Groundwater (µg/L)	Soil (mg/kg)
Arsenic	7440-38-2	10	13*
Barium	7440-39-3	2000	15000
Cadmium	7440-43-9	5	37
Chromium	7440-47-3	22,000	120,000
Lead	7439-92-1	15	400
Mercury	7439-97-6	2	7.8
Selenium	7439-97-6	50	390
Silver	7440-22-4	94	390
Zinc	7440-66-6	6000	23000
PAHs	**CAS No.**	**Groundwater (µg/L)**	**Soil (mg/kg)**
Acenaphthene	83-32-9	240	4100
Acenaphthylene	208-96-8	320	4200
Anthracene	120-12-7	1800	23000
Benz[a]anthracene	56-55-3	0.012	0.21
Benzo[b]fluoranthene	205-99-2	0.034	0.16
Benzo[k]fluoranthene	207-08-9	0.34	1.6
Benzo[g,h,i]perylene	191-24-2	600	1800
Benzo[a]pyrene	50-32-8	0.2	0.016
Chrysene	218-01-9	3.4	16
Dibenz[a,h]anthracene	53-70-3	0.0034	0.016
Fluoranthene	206-44-0	800	2400
Fluorene	86-73-7	150	2900
Indeno[1,2,3-cd]pyrene	193-39-5	0.034	0.16
1-Methylnaphthalene	90-12-0	1.1	24
2-Methylnaphthalene	91-57-6	36	310
Naphthalene	91-20-3	0.17	4.1
Phenanthrene	85-01-8	6000	23000
Pyrene	129-00-0	79	2300

WO# : 30377174

30377174

L1250694

Pace Analytical
www.pacelabs.com

Document
ist be completed accurately.

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Invoice Information:	
Company:	ENVIRONMENTAL STANDARDS, INC.	Report To:	Leah Mistick (Lmistick@envstd.com)	Attention:	Leah Mistick
Address:	1140 Valley Forge Road	Copy To:	Lydia Work (Lwork@envstd.com)	Company Name:	ENVIRONMENTAL STANDARDS, INC.
Valley Forge, PA 19482				Address:	1140 Valley Forge Road
Email:	lmistick@envstd.com	Purchase Order #:		Pace Quote:	
Phone:	610-935-5577 Fax:	Project Name:	Speedway ESA VRP	Pace Project Manager:	taylor.sullivan@pacelabs.com,
Requested Due Date:	Standard TAT	Project #:	20198730	Pace Profile #:	4066-1

Regulatory Agency	
State / Location	
WV	

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	8260 VOCs	8270 PAH by SIM	6010 Metals	SPLP (VOCs)	SPLP (PAH SIM)	SPLP (metals)	Residual Chlorine (Y/N)		
1	SB01 (0-2)	SL	G	8/11/20	0905				2											X	X					001	001
2	SB01 (4-8)	SL	G	8/11/20	0930				7										X	X	X	X	X	X		002, 003	002
3	SB02 (0-2)				1020				2											X	X					004	003
4	SB02 (0-2)-FD				1020				2											X	X					005	004
5	SB02 (14-15)				1050				7										X	X	X	X	X	X		006, 007	005
6	SB07 (0-2)				1125				2											X	X					008	006
7	SB07 (20-24)				1205				7										X	X	X	X	X	X		009, 010	007
8	SB07 (20-24)-FD				1205				7										X	X	X	X	X	X		011, 012	008
9	SB10 (0-2)				1330				2											X	X					013	009
10	SB10 (14-16)				1350				7										X	X	X	X	X	X		014, 015	010
11	SB09 (0-2)				1400				2											X	X					016	011
12	SB09 (16-20)				1415				7										X	X	X	X	X	X		017, 018	012

MJS 8-12-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS (°F - °C)			
Level 4 data package	[illegible] ESI	8-12-20	0941		8/12/20	0941	32	Y	N	Y
for all		8/12/20	1300	[illegible] PACE	8/12/20	1300				
samples; report	[illegible] PACE	8/12/20	14.35	Nicole Rund	8/12/2020	1435	6.0	Y	N	Y
to MDLs & correct for										
moisture										

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	LEAH MISTICK
SIGNATURE of SAMPLER:	[signature]
DATE Signed:	8/11/20

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

L1250694
30377174

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	ENVIRONMENTAL STANDARDS, INC.	Report To:	Leah Mistick (Lmistick@envstd.com)	Attention:	Leah Mistick
Address:	1140 Valley Forge Road	Copy To:	Lydia Work (Lwork@envstd.com)	Company Name:	ENVIRONMENTAL STANDARDS, INC.
Valley Forge, PA 19482				Address:	1140 Valley Forge Road
Email:	lmistick@envstd.com	Purchase Order #:		Pace Quote:	
Phone:	610-935-5577 Fax:	Project Name:	Speedway ESA VRP	Pace Project Manager:	taylor.sullivan@pacelabs.com,
Requested Due Date:	Standard TAT	Project #:	20198730	Pace Profile #:	4066-1

Regulatory Agency

State / Location: WV

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID: One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 VOCs	8270 PAH by Sim	6010 Metals & 7471	SPLP (VOCs)	SPLP (PAH SIM)	SPLP (metals)	Residual Chlorine (Y/N)		
1	SB08 (0-2)	SL	G	8.11.20			1440		2											X	X					MS/MSD ~~014~~	013
2	SB08 (8-12)						1450		7										X	X	X	X	X	X		020,021	014
3	SB03 (0-2)						1510		2											X	X					022	015
4	SB03 (12-15)						1525		7										X	X	X	X	X	X		023,024	016
5	SB06 (0-2)						1545		2											X	X					025	017
6	SB06 (16-20)						1605		7										X	X	X	X	X	X		026,027	018
7	SB04 (0-~~2~~4)						1635		2											X	X					028	019
8	SB04 (20-24)						1700		7										X	X	X	X	X	X		MS/MSD ~~024,030~~	020
9	SB05 (0-2)						1715		2											X	X					031	021
10	SB05 (16-20)						1735		7										X	X	X	X	X	X		032	022
11																											
12	trip Blank																		X							033	023 MJS 8-12-20

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS (cp-2.5) TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Level 4 data	[signature] ESI	8-12-20	0945	[signature]	8/12/20	0945	3.2	Y	N	Y
packages for all	[signature]	8/12/20	1700	[signature] PACE	8/12/20	13:00				
samples; report to MDLs	[signature] PACE	8/12/20	14:35	[signature]	8/12/2020	1435	6.0	Y	N	Y
correct for % moisture										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leah Mistick

SIGNATURE of SAMPLER: [signature] DATE Signed: 8-11-20

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: PACEGPA	L1250694	
Cooler Received/Opened On: 8 / 14 / 20 Temperature:	1-2	
Received By: Billy Barras		
Signature: B. Barras		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

L1250694

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Envlro. Stand. Project # 30377174

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Label MIS
LIMS Login MIS

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 5.7 °c Correction Factor: +0.3 °c Final Temp: 6.0 °c

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# NA	Date and Initials of person examining contents: NMR 8/12/2020
Chain of Custody Present:	✓			1.	
Chain of Custody Filled Out:	✓			2.	
Chain of Custody Relinquished:	✓			3.	
Sampler Name & Signature on COC:	✓			4.	NMR 8/12/2020
Sample Labels match COC: -Includes date/time/ID Matrix: SL		✓		5.	ID on Sample ~~#5~~ 005 is SB02 & ID on Sample 008 is SB07(20-25)-FD
Samples Arrived within Hold Time:	✓			6.	
Short Hold Time Analysis (<72hr remaining):		✓		7.	
Rush Turn Around Time Requested:		✓		8.	
Sufficient Volume:	✓			9.	
Correct Containers Used:	✓			10.	
-Pace Containers Used:		✓			
Containers Intact:	✓			11.	
Orthophosphate field filtered			✓	12.	
Hex Cr Aqueous sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix			✓	16.	
All containers meet method preservation requirements.	✓			Initial when completed NMR	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):			✓	17.	
Trip Blank Present:	✓	X		18. NMR 8/12/2020	
Trip Blank Custody Seals Present	✓				
Rad Samples Screened < 0.5 mrem/hr			✓	Initial when completed:	Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

J:\QAQC\Master\Document Management\Sample Mgt\Sample Condition Upon Receipt Pittsburgh (C056-9 5April2019)

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: PACEGPA	L1250694	
Cooler Received/Opened On: 8 / 14 / 20 Temperature:	1-2	
Received By: Billy Barras		
Signature: B. Barras		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

Allison Felix

From: Megan Smetanka <Megan.Smetanka@pacelabs.com>
Sent: Thursday, October 8, 2020 4:20 PM
To: Lydia Work
Cc: Allison Felix; Leah Mistick
Subject: RE: Data Val questions - EnvStd Speedway ESA VRP (Pace Project # 30377174)

Good Afternoon,

The revised package is now posted to Paceport. Please let me know if you have any questions.

Megan Smetanka
Project Manager | Environmental Sciences
1638 Roseytown Road, Suites 2, 3, & 4, Greensburg, PA 15601
o: 724-850-5614 | pacelabs.com

From: Megan Smetanka
Sent: Thursday, October 8, 2020 3:33 PM
To: 'Lydia Work' <lwork@envstd.com>
Cc: Allison Felix <afelix@envstd.com>; Leah Mistick <lmistick@envstd.com>
Subject: RE: Data Val questions - EnvStd Speedway ESA VRP (Pace Project # 30377174)

Hello,

Attached is the revised package.

Thanks,

Megan Smetanka
Project Manager | Environmental Sciences
1638 Roseytown Road, Suites 2, 3, & 4, Greensburg, PA 15601
o: 724-850-5614 | pacelabs.com

From: Lydia Work <lwork@envstd.com>
Sent: Tuesday, October 6, 2020 2:46 PM
To: Megan Smetanka <Megan.Smetanka@pacelabs.com>
Cc: Allison Felix <afelix@envstd.com>; Leah Mistick <lmistick@envstd.com>
Subject: RE: Data Val questions - EnvStd Speedway ESA VRP (Pace Project # 30377174)

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Thank you!

Lydia M. Work, LRS
Principal Chemist
Environmental Standards, Inc.
(o) 610.935.5577 ext. 406 • (m) 304.552.1442

From: Megan Smetanka <Megan.Smetanka@pacelabs.com>
Sent: Tuesday, October 6, 2020 2:24 PM
To: Lydia Work <lwork@envstd.com>
Cc: Allison Felix <afelix@envstd.com>; Leah Mistick <lmistick@envstd.com>
Subject: RE: Data Val questions - EnvStd Speedway ESA VRP (Pace Project # 30377174)

Hello,

Please see the below answers from the lab. I will send the revised package as soon as its complete.

Greensburg (VOCs)
1. The data was uploaded incorrectly to our system. The lab has corrected them and attached are the revised forms.
2. We do not notate the freezing of unpreserved samples but since there was no hold time flag we either received preserved vials or the vials were stored in the freezer after log in. I believe the vials were ordered from our Pace Beaver lab and they contain 2 sodium bisulfate vials and 1 methanol vial but we do not have the vials still to check what preservative the samples arrived in.

National (PAH)
1. The 0.4ppb standard was used in the calibration. Attached is the raw data pdf with responses.
2. SSCV was analyzed and has been re-captured. Attached is the raw data pdf.

Thanks,

Megan Smetanka
Project Manager | Environmental Sciences
1638 Roseytown Road, Suites 2, 3, & 4, Greensburg, PA 15601
o: 724-850-5614 | pacelabs.com

From: Lydia Work <lwork@envstd.com>
Sent: Monday, October 5, 2020 10:30 AM
To: Megan Smetanka <Megan.Smetanka@pacelabs.com>
Cc: Allison Felix <afelix@envstd.com>; Leah Mistick <lmistick@envstd.com>
Subject: Data Val questions - EnvStd Speedway ESA VRP (Pace Project # 30377174)

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi, Megan-

We have a few questions related to the 30377174 data package. Please forward to the appropriate personnel in Greenburg and/or National for resolution. Thank you!

Greensburg (VOC analysis):

1. In the VOCs section of the report, the relative response factors (RRF) reported on the summary forms for the initial calibration verification (ICV) performed on instrument 30MV6B on August 13, 2020 at 18:22 and the continuing calibration verification (CCV) analyzed on instrument 30MV3A on August 21, 2020 at 11:42 appeared to be incorrect. We've attached the forms annotated with example RRFs that I calculated.
2. SW-846 Method 5035A, Table A.1 recommends that unpreserved soil samples be preserved with methanol upon receipt or frozen within 48 hours of receipt until analysis. We cannot find a record of methanol preservation or freezing.

National (PAH analysis):

1. In the PAH section of the report, the raw data for the 0.4 ppb initial calibration standard analyzed on instrument BNAMS14 in July 31, 2020 reported no responses for target analytes, yet the initial calibration summary reported RRFs for several target analytes. Could the laboratory clarify if this standard was used in the calibration, and if so, provide a copy of the raw data for this standard with responses?
2. In the PAH section of the report, a second source calibration verification (SSCV) was not included for instrument BNAMS28. We cannot tell from the runlog if a SSCV was analyzed. The associated runlog is attached. Could the laboratory clarify if an SSCV was analyzed on this instrument, and if so, provide the form, raw data, and revised runlog?

Lydia M. Work, LRS
Principal Chemist
Environmental Standards, Inc.
1140 Valley Forge Road • PO Box 810 • Valley Forge, PA 19482
(o) 610.935.5577 ext. 406 • (m) 304.552.1442 • www.envstd.com • lwork@envstd.com

Emergency Response Quality Assurance Hotline: 855.374.7272

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Allison Felix

From: Megan Smetanka <Megan.Smetanka@pacelabs.com>
Sent: Monday, October 12, 2020 4:19 PM
To: Lydia Work
Cc: Leah Mistick; Allison Felix
Subject: RE: Data Val questions - EnvStd Speedway ESA VRP (Pace Project # 30377174)
Attachments: 30377174_frc.pdf

Please see attached for the revised report.

Thanks,

Megan Smetanka
Project Manager | Environmental Sciences
1638 Roseytown Road, Suites 2, 3, & 4, Greensburg, PA 15601
o: 724-850-5614 | pacelabs.com

From: Lydia Work <lwork@envstd.com>
Sent: Monday, October 12, 2020 3:21 PM
To: Megan Smetanka <Megan.Smetanka@pacelabs.com>
Cc: Leah Mistick <lmistick@envstd.com>; Allison Felix <afelix@envstd.com>
Subject: RE: Data Val questions - EnvStd Speedway ESA VRP (Pace Project # 30377174)

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Yes, please.

Thank you!

Sent via Lydia's mobile device

-------- Original message --------
From: Megan Smetanka <Megan.Smetanka@pacelabs.com>
Date: 10/12/20 3:13 PM (GMT-05:00)
To: Lydia Work <lwork@envstd.com>
Cc: Leah Mistick <lmistick@envstd.com>, Allison Felix <afelix@envstd.com>
Subject: RE: Data Val questions - EnvStd Speedway ESA VRP (Pace Project # 30377174)

Hi Lydia,

I just heard back from the lab and there is a great possibility that the Methylene Chloride and Acetone levels in samples SB01 (4-8) and SB06 (16-20) is due to lab contamination. Would you like us to revise the report and add a narration of "Analyte is a possible laboratory contaminant (not present in method blank)" to these two samples?

Megan Smetanka
Project Manager | Environmental Sciences
1638 Roseytown Road, Suites 2, 3, & 4, Greensburg, PA 15601
o: 724-850-5614 | pacelabs.com

From: Lydia Work <lwork@envstd.com>
Sent: Friday, October 9, 2020 4:03 PM
To: Megan Smetanka <Megan.Smetanka@pacelabs.com>
Cc: Leah Mistick <lmistick@envstd.com>; Allison Felix <afelix@envstd.com>
Subject: FW: Data Val questions - EnvStd Speedway ESA VRP (Pace Project # 30377174)

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi, Megan-

I have what I think is one last request related to this project.

I am suspicious of the SPLP MeCl2 and acetone results in the attached samples. The same soil samples were ND for MeCl2, and low for acetone. It's difficult explaining.

Has the lab had any issues with these two VOCs? Is it possible they are lab contamination? Based on the data review, we cannot make that determination.

Thank you!

Lydia M. Work, LRS
Principal Chemist
Environmental Standards, Inc.
(o) 610.935.5577 ext. 406 • (m) 304.552.1442

From: Allison Felix <afelix@envstd.com>
Sent: Friday, October 9, 2020 3:48 PM
To: Lydia Work <lwork@envstd.com>
Subject: RE: Data Val questions - EnvStd Speedway ESA VRP (Pace Project # 30377174)

Hi Lydia,

I see Methylene chloride in the SPLP for SB01 (4-8) and SB06 (16-20), and no other samples.
I checked the associated blanks and the trip blank, and none of them had detects for methylene chloride, so I really can't draw the conclusion of lab contamination. The laboratory blanks reported appear to have been the tumbling blanks, so it doesn't look like contamination in either the VOCs lab or the SPLP extraction.
Checking the raw data, both samples have high concentrations of acetone in them. I checked the associated CCVs, and the RTs and RRTs for both acetone and methylene chloride are perfect in the samples.
Although the mass spectra look good for both methylene chloride and acetone, the chromatograms only have one large peak spanning RTs for acetone and methylene chloride.
It may be worth asking the lab for more information, if a co-elution is possible due to the high acetone concentration. Raw data for the two samples is attached.

Allison Felix
Staff Chemist III
Environmental Standards, Inc.

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From: Lydia Work <lwork@envstd.com>
Sent: Friday, October 9, 2020 3:16 PM
To: Allison Felix <afelix@envstd.com>; Leah Mistick <lmistick@envstd.com>
Subject: RE: Data Val questions - EnvStd Speedway ESA VRP (Pace Project # 30377174)

Hi, Ali-

There is MeCl2 in some of the SPLP data. I am suspicious of lab contamination.

Do you have any insight? Thanks,

Lydia M. Work, LRS
Principal Chemist
Environmental Standards, Inc.
(o) 610.935.5577 ext. 406 • (m) 304.552.1442

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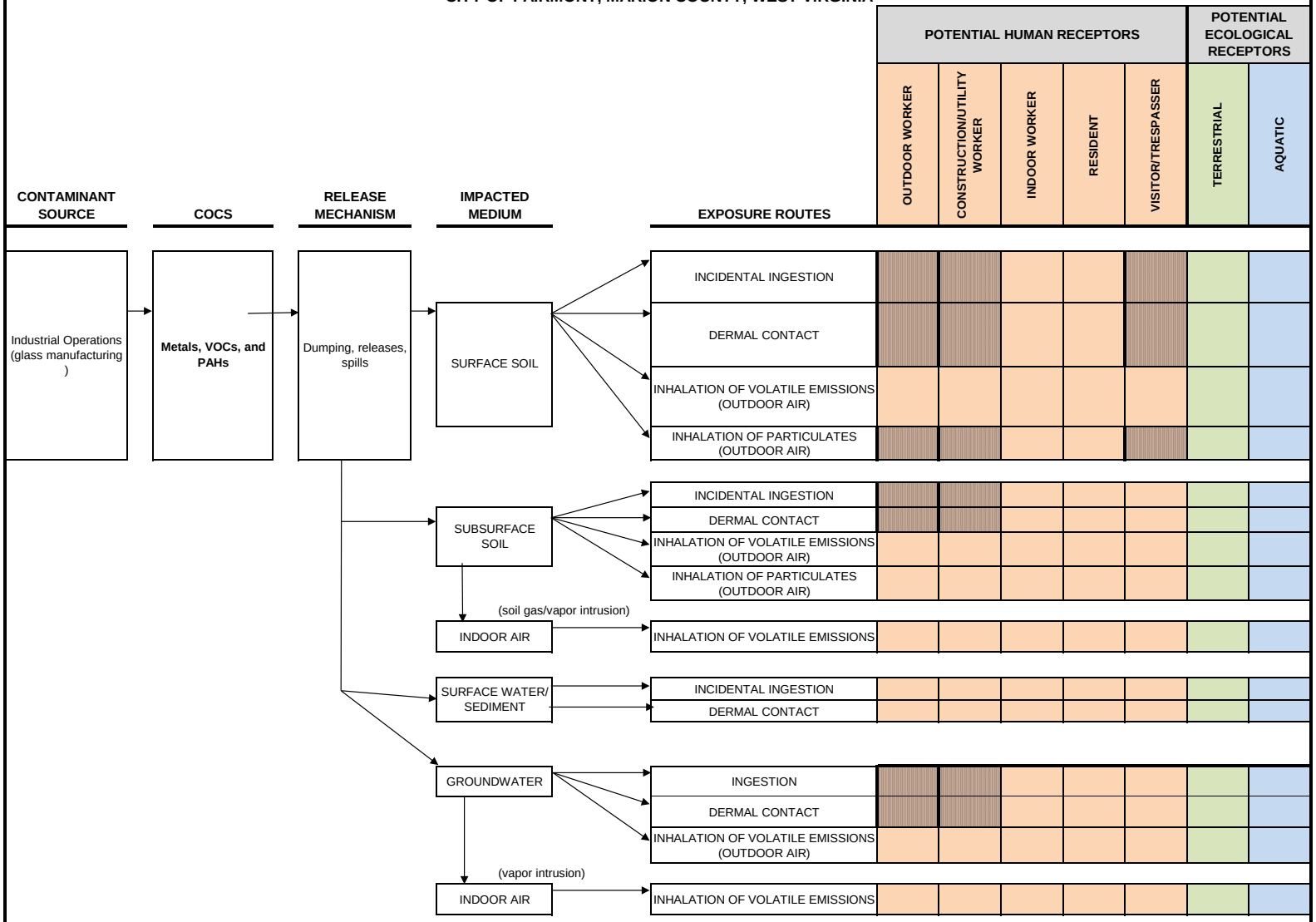
APPENDIX D

SITE ASSESSMENT REPORT CONCEPTUAL SITE MODEL
SPEEDWAY BUSINESS PARK ADDITION
CITY OF FAIRMONT, MARION COUNTY, WEST VIRGINIA



Notes:

	empty box denotes incomplete pathway.
	indicates a potentially complete exposure pathway, or complete but risk is very low.
	indicates pathway is complete and risk may be significant (exceeds risk-based concentration).