UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 Renner Boulevard
Lenexa, Kansas 66219

Ms. Amie Davidson
Solid Waste Section Supervisor
Iowa Department of Natural Resources
Wallace State Office Building
Des Moines, Iowa 50319

Re: Tanglefoot Lane, Scott County, Iowa
EPA ID No. IAN000703123

Dear Amie:

Enclosed is a copy the MIP Survey Removal Assessment Report, dated May 26, 2022 that was completed on the Tanglefoot Lane Site. This Report was prepared by Tetra Tech EM Inc., a contractor for the Environmental Protection Agency. Previous assessments of the site include a Preliminary Assessment, completed February 12, 2016, and a Site Inspection, completed April 30, 2020.

Based upon the findings in this investigation, this site does not warrant further federal response activities under CERCLA, 42 U.S.C. §§ 9601, *et seq*. The contaminants PCE, TCE and their degradation products were found. The PCB Arachlor 1242 was also found at the site. This site may be proposed to be archived in the near future. If you have any questions, or need further information please call or email me at (913) 551-7749 or davis.toddh@epa.gov.

Sincerely,

TODD DAVIS

Digitally signed by TODD DAVIS
Date: 2022.11.18 07:54:12 -06'00'

Todd H. Davis
Iowa Site Assessment Manager
Assessment, Emergency Response and Removal Branch
Superfund and Environmental Management Division

Attachment

TETRA TECH

May 26, 2022

Mr. Andrew Gieseke
EPA On-Scene Coordinator
U.S. Environmental Protection Agency, Region 7
11201 Renner Boulevard
Lenexa, Kansas 66219

Subject: **MIP Survey Removal Assessment Report**
Tanglefoot Lane Site, Bettendorf, Iowa
EPA SEMS Identification No. IAN000703123
U.S. EPA Region 7, START 5, Contract No. [redacted]
(b) (4) [redacted]
Task Monitor: Andrew Gieseke, EPA On-Scene Coordinator

Dear Mr. Gieseke:

Tetra Tech, Inc. submits the enclosed Membrane Interface Probe (MIP) Survey Removal Assessment Report regarding the Tanglefoot Lane site in Bettendorf, Iowa. This report was revised based on March 2022 investigation activities at the site and comments from EPA pertaining to the original report dated January 3, 2022. If you have any questions or comments about this submittal, please contact the Project Manager at (816) 412-1744.

Sincerely,

(b) (4)
START Project Manager

(b) (4)
START Program Manager

Enclosures

cc: Brianne Stubblefield, EPA

[redacted]

415 Oak Street, Kansas City, MO 64106
Tel 816.412.1741 Fax 816.410.1748 www.tetratech.com

MIP SURVEY REMOVAL ASSESSMENT REPORT

TANGLEFOOT LANE SITE
BETTENDORF, IOWA

EPA SEMS ID – IAN000703123

Superfund Technical Assessment and Response Team (START) 5 Contract
Contract No. [redacted] (b) (4)

Prepared For:

U.S. Environmental Protection Agency
Region 7
Superfund Division
11201 Renner Boulevard
Lenexa, Kansas 66219

May 25, 2022

Prepared By:

Tetra Tech, Inc.
415 Oak Street
Kansas City, Missouri 64106
(816) 412-1741

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1.0 INTRODUCTION

Under (b) (4), the U.S. Environmental Protection Agency (EPA), Region 7 Superfund Division tasked the Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) to assist a removal assessment of the Tanglefoot Lane site (the site) in Bettendorf, Iowa. Tetra Tech START was to conduct a membrane interface probe (MIP) survey using direct-push technology (DPT) equipment. The site has been entered into the Superfund Enterprise Management System (SEMS), with site identification number IAN000703123.

Purposes of the survey were to determine locations and extents of subsurface contamination, with expectation that resulting data would aid decision making about future removal action activities. Work proceeded under authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA). The EPA On-Scene Coordinator (OSC) for the project was Andrew Gieseke, and the START Project (b) (4)

This report discusses MIP and electrical conductivity (EC) logging during October 25-29, 2021, and March 7-10, 2022, to delineate extents and depths of contamination. In addition, confirmation soil sampling occurred by use of DPT equipment, as well as sediment and surface water sampling.

2.0 SITE DESCRIPTION

Section 2.0 specifies the site location, describes the site, overviews its operational history, conveys waste characteristics, and describes site geology and hydrogeology.

2.1 SITE LOCATION AND DESCRIPTION

The site is within the City of Bettendorf in Scott County, Iowa (see Appendix A, Figure 1). The site consists of two contiguous parcels, 841523010 and 841433011, totaling approximately 18 acres, south of Tanglefoot Lane between Devils Glen Road and Middle Road. Most survey activities occurred on parcel 841433011, with minimal activities on parcel 841539011. During the 1960s through the 1970s, the property was used as a waste collection and disposal site (Tetra Tech 2016). An unpermitted landfill at the western part of the site was identified as a potential source of soil and groundwater contamination. Moreover, disposal of waste oil reportedly occurred in a pit (referred to as the oil pit) at the eastern portion of the site (see Appendix A, Figure 2). Figure 2 also shows sanitary sewer lines within the site.

Most acreage at the site is covered by timber and former grassland now overgrown with brush, with steep topographical slopes to the south toward an unnamed tributary of Crow Creek that discharges to a neighboring residential pond. Adjacent property north of Tanglefoot Lane is developed for residential use; adjacent properties to the east and west are residential/commercial; adjacent properties across the creek to the south are improved with a church, parking lots, and residences. According to the Scott County assessor web site, current owners of the site are sisters (b) (6) [redacted] (Scott County Assessor 2021).

2.2 LANDFILL HISTORY

Interviews during a Phase I Environmental Site Assessment (ESA) of the site in 2012 revealed that the former owner had allowed the City of Riverdale, southeast of the site, to dispose of municipal waste beginning in the 1950s until sometime in the 1960s. An interviewee stated that disposal of the waste had occurred in a ravine on the site, likely the unpermitted landfill identified on the western portion of the site. Moreover, waste had been collected from other locations and possibly co-mingled with municipal refuse. Some interviewees said that the landfill might extend “up to” Tanglefoot Lane, while others suspected that it could extend north of Tanglefoot Lane. Several residents stated that cattle had died for unknown reasons after grazing on the site, and possibly drinking from 55-gallon drums stored on the site (EnviroNET, Inc. [EnviroNET] 2012).

2.3 OIL PIT HISTORY

Based on interviews during the Phase I ESA, the former property owner had stored used oil and wood chips in clay pits on the property for application on country roads as "dust control." A nearby resident stated that this practice had begun in the early 1960s. This interviewee did not know if the pits were lined with anything, but conveyed that they had been filled with materials from "tanker trucks." This interviewee recalled loss of three horses over several weeks after they had grazed on the site, and death of cattle for unknown reasons (EnviroNET 2012). Whether these animals had grazed near the landfill, oil pit, or both is unknown.

2.4 WASTE CHARACTERISTICS

A total of 37 contaminants have been identified at the site. This section discusses waste characteristics of several predominant contaminants at the site.

2.4.1 Tetrachloroethene

Tetrachloroethene (PCE) is a chlorinated solvent with an ether-like odor that typically has been used in dry cleaning operations and as a degreaser for metal parts (Agency for Toxic Substances and Disease Registry [ATSDR] 2019a). PCE is denser than water and tends to be found at greater depths with increasing distance from a source area if released to the environment. Prolonged exposure to PCE may cause vision changes and neurobehavioral effects.

PCE was introduced as a dry cleaning solvent in 1934, and by 1948 had replaced carbon tetrachloride (CCl_4) as the major chlorinated dry cleaning solvent used in the United States (petroleum solvents still dominated overall). By 1962, dry cleaning operations accounted for 90 percent of PCE used in the United States (State Coalition for Remediation of Drycleaners 2007). At one time, PCE had been mixed with grain protectants and certain liquid grain fumigants, but this was no longer approved by 1980 (Meister Publishing Company 1980). In the environment, PCE degrades to trichloroethene (TCE) via dechlorination.

2.4.2 Trichloroethene

TCE is a nonflammable, colorless liquid with a somewhat sweet odor and a sweet, burning taste. It is used mainly as a solvent to remove grease from metal parts, but it is also an ingredient in adhesives, paint removers, typewriter correction fluids, and spot removers. TCE is not thought to occur naturally in the environment. However, it has been found in underground water sources and many surface waters as a

result of manufacture, use, and disposal of the chemical (ATSDR 2019b). The *cis* and *trans* isomers of 1,2-dichloroethene (DCE) and 1,1-DCE are common degradation products from TCE. These daughter products eventually degrade to vinyl chloride.

2.4.3 1,2-Dichloroethene

1,2-DCE is a highly flammable, colorless liquid with a sharp, harsh odor. It is used to produce solvents and in chemical mixtures. Very small amounts of 1,2-DCE in air (about 17 parts per million [ppm]) are detectable by odor; either or both the *cis* and *trans* isomers can be present (ATSDR 2018).

2.4.4 1,1-Dichloroethene

1,1-DCE is an industrial chemical not found naturally in the environment. It is a colorless liquid with a mild, sweet smell. It is also called vinylidene chloride. 1,1-DCE is used to make certain plastics, such as flexible films like food wrap, and in packaging materials. It is also used to make flame-retardant coatings for fiber and carpet backings, and in piping, coating for steel pipes, and in adhesive applications (ATSDR 2018). Anaerobic bacteria break down 1,1-DCE to vinyl chloride in the environment via reductive dechlorination.

2.4.5 Vinyl Chloride

Vinyl chloride is a colorless gas at room temperature. Vinyl chloride exists in liquid form if kept under high pressure or at low temperatures. It burns easily and it is not stable at high temperatures. It has a mild, sweet odor. It is a manufactured substance that does not occur naturally. It can be formed when other substances such as PCE and TCE are broken down. Vinyl chloride is used to make polyvinyl chloride (PVC). PVC is used to make a variety of plastic products, including pipes, wire and cable coatings, and packaging materials. Vinyl chloride is also known as chloroethene, chloroethylene, and ethylene monochloride (ATSDR 2018).

2.4.6 Polychlorinated Biphenyls

PCBs belong to a broad family of man-made organic chemicals known as chlorinated hydrocarbons. PCBs were domestically manufactured from 1929 until their manufacture was banned in 1979. They have a range of toxicities and vary in consistency from thin, light-colored liquids to yellow or black waxy solids. Due to their non-flammability, chemical stability, high boiling point, and electrical insulating properties, PCBs were used in hundreds of industrial and commercial applications including electrical, heat transfer, and hydraulic equipment; as plasticizers in paints, plastics, and rubber products; in

pigments, dyes, and carbonless copy paper; and many other industrial applications. PCBs have been demonstrated to cause cancer, as well as a variety of other adverse health effects on the immune system, reproductive system, nervous system, and endocrine system (EPA 2021).

2.5 GEOLOGY AND HYDROGEOLOGY

The site is in the Mississippi River Valley of the Great Plains Region of the Central Interior of the United States. The region is covered with glacial sediments that have eroded to form a landscape consisting of uplands bisected by rivers, creeks, and streams that discharge into the Mississippi River. Site-specific soil information provided in the U.S. Department of Agriculture (USDA) Soil Survey of Scott County, Iowa (USDA 1996), indicates that most of the site is characterized by Downs Silt Loam, Lindley Loam, and Nodaway Silt Loam. The Lindley Loam and Downs Silt Loam range from 5-25% slopes (moderately sloping to steep), and from moderately eroded to severely eroded. These are well-drained soils with permeabilities ranging from moderately slow (Lindley Loam) to moderate (Downs Silt Loam). Runoff from these soils ranges from medium to very rapid. The Nodaway Silt Loam has 0-2% slopes, and is a moderately well-drained soil found in areas of recent deposition. Permeability of the Nodaway soil is moderate, it has a slow runoff rate, and its seasonal high water table is at depths of 3-5 feet below ground surface (bgs).

Observed geology in the vicinity of the former landfill during prior investigations included surface fill materials, silty clay loam and sandy silt in thin seams, dense dry stiff to plastic clays of glacial origin (various thicknesses), sand lenses, and sandy saturated substrate at depths of 12 to 15 feet bgs. The fill area included degraded materials mixed with sand and clay, with glass, plastic, and debris mixed in at various intervals. Depth to groundwater varies from approximately 35 feet bgs near the roadway to approximately 1 foot bgs near the southern site boundary.

Observed geology in the vicinity of the former oil pit (see Appendix A, Figure 2) included silty clay loam, loess, and well-rounded oxidized sand. Thin, dry, discontinuous sand lenses were observed above 20 feet bgs.

Direction of groundwater flow is to the south-southwest. Groundwater flows toward the unnamed intermittent creek near the southern boundary of the site. Depth of groundwater at the southern end of the site is consistent with creek levels. The creek is an unnamed tributary of Crow Creek, which flows southeast toward the Mississippi River (Tetra Tech 2015).

3.0 PREVIOUS INVESTIGATIONS

This section summarizes the numerous investigations at the site.

3.1 2012-2013 ENVIRONMENTAL SITE ASSESSMENTS

In 2012-2013, EnviroNET, under contract to Stanley, Lande, & Hunter, the landowners' attorney, conducted Phase I and II ESAs of the site referred to then as the Former Meinert Farm.

3.1.1 Phase I Environmental Site Assessment

EnviroNET's Phase I ESA of the site in 2012 revealed that the site previously had served as a landfill for municipal waste, and possibly industrial waste. An addition revelation was that Mr. Harry Meinert had been in the "contaminated materials disposal" and "oil and chip" businesses, which included storage of waste oil for application to country roads for dust control. During the site inspection, EnviroNET observed presence of waste on the ground surface among weeds and trees, including glass, plastic, metal containers (55-gallon drums, scrap metal, and limited construction debris), and oil pits (EnviroNET 2012). Recognized environmental conditions (RECs) identified during the Phase I ESA included:

- Unpermitted storage of municipal waste on the site
- Possible presence of hazardous/contaminated waste in containers, in soil, in leachate, and/or in groundwater
- Former storage of waste oil on the site in clay pits
- Presence of leachate drainage pipe extending from the fill area and draining downhill.

3.1.2 Phase II Environmental Investigation

EnviroNET performed a Phase II ESA in 2012/2013, part of which involved efforts to confirm or eliminate RECs identified during the Phase I ESA. During the Phase II ESA, contamination detected in soil and groundwater indicated presence of PCE, TCE, and degradation products (EnviroNET 2012). However, analytical results from soil and groundwater samples indicated that most of the contamination—including PCE, TCE, and polychlorinated biphenyls (PCBs)—had remained with the waste or in leachate within the waste. EnviroNET concluded that these contaminants would remain there, leaching slowly over time until removal of the waste. The Phase II ESA did not include an assessment of the unnamed tributary to Crow Creek inside the southern property line.

3.2 EPA INVESTIGATIONS

The State of Iowa received notification of the contaminated site and referred it to EPA for further assessment.

3.2.1 Preliminary Assessment

Tetra Tech START, under contract to EPA, performed a preliminary assessment (PA) of the site in 2015 that resulted in numerous detections of contaminants in soil, groundwater, surface water, sediment, and soil-gas samples, including PCE/TCE and their breakdown products. The PA found that the main sources of contamination were likely near the landfill and oil pit areas of the site where disposals of various substances were known to have occurred. The following Hazardous Ranking System (HRS) factors were noted:

- Contaminants were detected in all media sampled.
- Extents of contamination associated with the site were unknown.
- Releases of contaminants to groundwater and surface water migration pathways were documented, although no targets were sampled.

The PA report concluded that because extents of contamination at the site remained unknown, the impact of that contamination on human health or the environment was also unknown (Tetra Tech 2016).

3.2.2 Site Inspection

Tetra Tech START, under contract to EPA, conducted a site inspection (SI) of the Tanglefoot Lane site in 2016 and additional vapor intrusion sampling in 2018. The SI report concluded that the main sources of contamination were at or near the landfill and oil pit areas where disposals of various substances were known to have occurred. The primary contaminants were metals and volatile organic compounds (VOCs) (including PCE and its degradation products) detected in soil and groundwater. VOCs also were detected in samples of soil gas, sub-slab vapor, indoor air, and ambient air collected at or near the site. During the SI, PCE and TCE were not detected in groundwater samples collected upgradient or downgradient of the site, leading to a conclusion that PCE and TCE contamination in groundwater originated on site concentrated at the oil pit and estimated landfill area. The SI revealed that the soil exposure and surface water migration pathways pose a potential threat to health of those who reside or work on or near the site.

3.2.3 Removal Assessment

Tetra Tech START, conducted the initial sampling for this removal assessment of the site in May 2021. The assessment focused on the oil pit area of the site and where unpermitted disposal of solvents and other chemicals were suspected to have occurred. At that time, 20 DPT soil borings were advanced in a grid (approximately 0.5 acre) around the oil pit area to total depth of 10 feet bgs. Two soil samples were collected from each boring for a total of 40 samples. Samples were collected at depths of 3-5 and 9-10 feet bgs. The most prevalent contaminant found during the assessment was TCE, detected in nearly all samples collected, at concentrations ranging from 6.4 to 5,000 micrograms per kilogram (µg/kg). Because of the predominant TCE presence, further assessment via MIP was planned for fall 2021 to better delineate vertical and lateral extents of soil contamination. The analytical data summary from the May 2021 sampling event is in the May 2021 report (Tetra Tech 2021a).

4.0 SAMPLING ACTIVITIES

Sampling activities during this removal assessment occurred during October 25-29, 2021, and March 7-10, 2022. Site activities were documented in a field logbook (see Appendix B). Site photographs are in Appendix C. START members (b) (4) performed sampling activities under Analytical Services Request (ASR) 9039 during the October event, and submitted samples to the EPA Region 7 laboratory. Samples from the March 2022 were submitted to subcontracted laboratory, Pace Analytical Services Inc. (Pace). DPT contractor Below Ground Surface (BGS) was present for both sampling events. Unless otherwise noted in this report, sampling and analytical procedures followed standard operating procedures (SOP) specified in the approved, site-specific, Quality Assurance Project Plan (QAPP) (Tetra Tech 2021b) or QAPP Addendum Number 2 (Tetra Tech 2021c).

October 2021

START (b) (4) mobilized to the site on October 24, 2021. (b) (4) met the subcontracted DPT operator BGS on site at 07:00 hours on October 25, 2021, to begin EC and MIP logging. EPA OSCs Gieseke and Brianne Grant arrived later that day. (b) (4) left the site on October 27 after supervising initiation of MIP activities. (b) (4) arrived later that day to assist with sampling. In addition to EC/MIP logging, intended field activities included collections of as many as 40 soil samples from 20 soil borings, and 20 groundwater samples from temporary wells.

START labeled and packaged soil and water samples appropriately and placed them in a cooler maintained at temperature at or below 4 degrees Celsius (°C). All samples were hand-delivered on November 1, 2021, to the EPA Region 7 laboratory in Kansas City, Kansas, for analysis under ASR 9039.

March 2022

START (b) (4) mobilized to the site on March 6, 2022. (b) (4) met the subcontracted DPT operator BGS on site at 07:00 hours on March 7, 2022, to begin EC and MIP logging. EPA OSCs Gieseke and Stubblefield (formerly Grant) arrived at 14:45 hours. SM Barbeau arrived on site March 8, 2022, to assist in sampling activities on site. In addition to EC/MIP logging, intended field activities included collections of as many as 20 soil samples from 20 soil borings, and three samples each of surface water and sediment at three locations.

START labeled and packaged soil and water samples appropriately and placed them in a cooler maintained at temperature at or below 4 degrees Celsius (°C). All samples were hand-delivered on March 11, 2022, to Pace in Lenexa, Kansas, for analysis.

4.1 MEMBRANE INTERFACE PROBE AND ELECTRICAL CONDUCTIVITY LOGGING

BGS used a track-mounted DPT rig to advance a combination MIP/EC probe to investigate soils at the site. Figures 3 and 5 in Appendix A show locations of the MIP borings at the site. The MIP/EC probe was driven into the ground to total depths ranging from 23 to 77 feet bgs. As the probe advances, a shielded cable transmits data from the probe through the rod string to a field instrument at the surface. The field instrument displays depth of the probe, soil conductivity (or other data), and probe speed simultaneously and in real time. Generally, high soil conductivities (exceeding 50 milliSiemens/meter [mS/m]) indicate clays, moderate conductivities indicate silts, and low conductivities indicate sands. Clean quartz sands and silts may induce EC readings of about 1-2 mS/m; however, the EC readings in saturated sands reflect the EC of the formation water. As such, EC logging provides site-specific lithologic information, including vertical and lateral extents of aquitards, aquifers, and other hydrostratigraphic units; however, mineralogy of the formation or the aquifer can affect reliability of readings.

The MIP is a screening tool with semi-quantitative capabilities, acting as an interface between volatile contaminants at depth in the soil and gas phase detectors at the surface. The semi-permeable MIP membrane, composed of a thin film polymer and impregnated into a stainless-steel screen for support, is in a heated (100-120 degrees Celsius [°C]) block attached to the probe as the probe advances into the soil. Heating the block accelerates diffusion of volatiles from the soil through the membrane while minimizing absorption of contaminants by the membrane. Diffusion through the membrane is also driven by the concentration gradient between the contaminated soil and the clean carrier gas behind the membrane. A constant gas flow (typically nitrogen) sweeps behind the membrane and carries the contaminants to the gas phase detectors at ground surface that are part of the MIP instrument system. The MIP consisted of a halogen (chlorine)-specific detector (XSD), a photoionization detector (PID), and a flame ionization detector (FID) attached to a gas chromatograph. MIP logs were recorded at 46 on-site borings (-01 to -22 in October 2021 and -23 to -43 in March 2022). MIP-01 through -43 in the eastern site and MIP-L1 through -L3 at the landfill.

During the October sampling event, downhole EC/MIP logging tools were advanced to maximum depth of about 77 feet bgs. Terminations occurred at varying depths due to sloping terrain, refusal, and no

chlorinated MIP response. At seven locations, terminations occurred between about 63 and 77 feet bgs. At 10 locations, advancements were to depths between about 40 and 55 feet bgs. At five locations, advancements were to depths between about 24 and 38 feet bgs. MIP logging commenced at the center of the site and generally proceeded along edges of the known contamination before proceeding farther to the southwest where contamination was suspected to have migrated. Borings in the northern portion of the property hit refusal or bedrock around 72-75 feet bgs. No borings on the southern portion of the site were drilled to refusal. It is unknow if bedrock is sloping to the south. BGS decontaminated and calibrated the MIP following work at each boring location to assure accurate results. Calibration of the MIP involved use of a diluted PCE solution to achieve a response from the tool that accurately represented the percentage of chlorinated solvent in the calibration mixture. During logging at MIP-16 and MIP-01, EC results appeared to be inconsistent with known lithology. BGS tightened internal connecting wires and results were consistent for the remainder of logging. Between MIP-10 and MIP-11, BGS replaced the membrane of the MIP tool to ensure accurate results (the membrane can become clogged over time).

During the March sampling event, downhole EC/MIP logging tools were advanced to maximum depth of about 46 feet bgs. At eight locations, terminations occurred between about 36 and 46 feet bgs. Terminations at the remaining 16 locations occurred from about 22 to 32 feet bgs. MIP logging commenced at the eastern edge of the known plume from the oil pit and continued southeast to further delineate extents of contamination. During logging at MIP-23, the EC log appeared to not respond properly until approximately 20 feet bgs. Possibly, the EC was malfunctioning; however, this issue appeared at no other boring. MIP logging proceeded away from the contaminated area until the limits of contamination had been delineated. Figure 4 in Appendix A is a response map showing chlorinated solvents detected during MIP logging. After the full extent of the oil pit plume had been delineated, MIP logging began at the southernmost area of the landfill. EPA had requested MIP logging at this area to determine if chlorinated solvents were traveling south, away from the landfill. BGS decontamination and calibration practices continued from the October sampling event. During logging of the landfill locations, based on EC logging, depth of the landfill was approximately 8 feet bgs on the southern edge. Whether that depth is consistent throughout the landfill area is unknown. Attachment 1 includes copies of EC/MIP logs from both events, provided by BGS.

Logging Results – October 2021

EC logs indicated presence of clays and silty clays with occasional sandy layers and one prominent silty layer to the total depth logged. The prominent sandy layer, at depths ranging from 15 to 25 feet bgs, was found north to south through the center of the site and slightly to the southwest at thickness of

approximately 10 feet throughout. Most PID readings from the EC/MIP logs were elevated, with a corresponding XSD peak, and periodically a corresponding FID peak.

The MIP XSD indicated presence of chlorinated VOCs (CVOCs) (presumably TCE and breakdown products) at the site. High XSD readings at MIP-10, just southwest of the oil pit footprint, were detected at various depths from about 5 to 67 feet bgs (655-593 feet above mean sea level [amsl]). At MIP-22, within the oil pit footprint, XSD readings were highest over the largest interval, with very high readings from about 10 to 34 feet bgs (656-632 feet amsl), decreasing below that to total depth at 42 feet bgs (624 feet amsl). Within the southern portion of the site, at MIP locations -17, -18, -19, and -21, XSD readings were recorded at 5-10 feet bgs (628-623 feet amsl); highest XSD readings occurred at MIP-17 from surface to 25 feet bgs (636-611 feet amsl), with readings decreasing below that depth. In the northern area of the site, elevated XSD readings tended to occur within 20-30 feet bgs. Figures 6 and 7, respectively, are north to south and west to east MIP cross-sections at the central and southern portions of the site and illustrate the generally high XSD responses through the center of the site and prevalence of CVOCs through the southern portion of the site. Topography at the site steeply declines toward the south, and the cross-sections show depth in feet amsl.

Logging Results – March 2022

EC logs indicated lithology similar to that identified during the October 2021 visit. The prominent silty layer detected during the October 2021 visit was not detected during this event, as most logging occurred on the outer edges of the oil pit area. Generally, XSD and PID reading were lower during this event as the outer limits of contamination were investigated. Highest XSD and PID readings occurred near the center of the suspected plume at MIP-25, -26, and -29—within approximately 15 to 22 feet bgs.

EC logging at the landfill location revealed soils similar to those at the oil pit location, with predominantly silty clay below 10 feet bgs. Based on the EC logs, approximately 8 feet of fill material was encountered above native soil. The landfill area is relatively flat with a very slight slope to the south. Although the XSD readings were low, PID and FID responses were high from approximately 8 to 16 feet bgs at the southern and southeastern MIP locations, suggesting higher levels of petroleum products than chlorinated solvents. At the southwestern locations, PID responses were low, but adjustment of the scale of the graph indicated XSD results greatest at these locations, with responses at greater depth also. This response suggests that chlorinated solvents possibly are traveling to the southwest off the landfill.

4.2 SOIL SAMPLING

Locations of soil samples submitted to the EPA Region 7 laboratory and Pace for VOCs analysis were selected in part based on MIP logging results, with most samples collected at depths where elevated XSD readings had been indicated on the MIP logs. Soil cores were obtained at each location by use of 5-foot-long Geoprobe® Macro-Core soil samplers, each of which contained a disposable polyvinyl chloride (PVC) sleeve. START screened the cores for presence of VOCs using a handheld PID. At the request of EPA, soil samples were homogenized over the entire 5-foot interval by collection of a sample within every foot of the core. Figures 5 and 10 in Appendix A show DPT soil sample locations on the site at the Landfill and oil pit locations; samples from October 2021 and March 2022 are listed in Table 1 below. Table 1 also lists for each sample its DPT soil boring number (location) and collocated or nearby MIP locations.

Each grab sample of subsurface soils for analysis for VOCs consisted of two 5-gram aliquots placed into two 40-milliliter (mL) vials preserved with sodium bisulfate and one preserved with methanol. A third unpreserved 2-ounce plastic bottle was packed with soil for percent solids (moisture content) determination.

TABLE 1

SOIL SAMPLE SUMMARY
TANGLEFOOT LANE SITE – BETTENDORF, IOWA

Boring Number	Location	Depth (ft bgs)	Sample Number	Sample Date	Sample Time
DPT-21	Between MIP-17 and MIP-21	15-20	9039-1	10/28/2021	16:20
		20-25	9039-2		16:35
DPT-22	Between MIP-17 and MIP-19	10-15	9039-3		16:50
		15-20	9039-4		17:10
DPT-23	Collocated with MIP-22 within footprint of oil pit	10-15	9039-5	10/29/2021	08:35
		15-20	9039-6		08:45
DPT-24	Collocated with MIP-11	25-30	9039-7		09:25
		30-35	9039-8		09:45
DPT-25	Collocated with MIP-13	20-25	9039-9		10:15
		25-30	9039-10		10:30
DPT-26	Collocated with MIP-14	5-10	9039-11		10:50
		10-15	9039-12		11:05
DPT-27	Collocated with MIP-33	5-10	60395120005	03/09/2022	14:55
DPT-28	Collocated with MIP-26	10-15	60395120006		15:15
DPT-29	Collocated with MIP-26	15-20	60395120009		15:30
DPT-30	Collocated with MIP-27	5-10	60395120010		15:50
DPT-31	Collocated with MIP-38	5-10	60395120013		16:00
DPT-32	Collocated with MIP-38	10-15	60395120015		16:15
DPT-33	Collocated with MIP-41	10-15	60395120016		16:20
DPT-34	Collocated with MIP-35	15-20	60395120019	03/10/2022	07:55
DPT-35	Collocated with MIP-25	10-15	60395120020		08:10
DPT-36	Collocated with MIP-25	15-20	60395120021		08:20
DPT-37	Collocated with MIP-29	20-25	60395120022		08:35
DPT-38	Collocated with MIP-32	10-15	60395120023		08:50
DPT-L1	Collocated with MIP-L3	5-8	60395120001	03/09/2022	13:30
DPT-L2	Collocated with MIP-L3	25-30	60395120002		13:40
DPT-L3	Collocated with MIP-L2	5-10	60395120003		13:55
DPT-L4	Collocated with MIP-L1	10-15	60395120004		14:15

Notes:

ft bgs Feet below ground surface
DPT Direct-push technology
MIP Membrane Interface Probe

Analytical Data Summary

Following discussion below of results from soil samples collected during October 2021 and March 2022, Tables 2 and 3 list those results for selected contaminants detected at concentrations exceeding EPA soil screening levels (SSLs) and contaminants detected at concentrations exceeding both SSLs and Iowa State Standards (ISSs). Attachment 2 includes a table of all contaminants identified on site during the

October 2021 and March 2022 sampling events, listing detected concentrations and comparing these to (1) EPA SSLs for protection of groundwater on a risk-based and MCL-based limit with a dilution factor of 20, and (2) ISSs for soil. Figures 11-13 show site-related VOC results from soil samples.

October 2021

Chain-of-custody records and analytical data from the October 2021 samples submitted under ASR 9039 are in Appendix D. Locations of soil sampling were based on elevated XSD responses; consequently, CVOCs were detected in all 12 soil samples from the six borings. TCE was detected in 11 of the samples at concentrations ranging from 33 to 3,600,000 µg/kg. PCE was detected in eight of the 12 samples collected at concentrations between 5.1 µg/kg (just above detection limits) and 74,000 µg/kg. Toluene (commonly used in paint thinners and lacquers) was detected in 10 of the 12 samples collected at concentrations ranging from 5,800 to 3,800,000 µg/kg. Other CVOCs detected included the following:

- 1,1-Dichloroethane (DCA) (67 to 5,400 µg/kg)
- 1,1-DCE (17 to 3,200 µg/kg)
- *cis*-1,2-DCE (64 to 110,000 µg/kg)
- 1,1,1-Trichloroethane (TCA) (4.9 to 740,000 µg/kg)
- Vinyl chloride (5.3 to 170 µg/kg).

Petroleum-related VOCs , such as benzenes, hexanes, and xylenes, also were detected. Concentrations of several of these VOCs exceeded EPA SSLs. TCE concentrations in samples from DPT-21 (20-25 feet bgs) and in both samples collected from the oil pit at DPT-23 (10-20 feet bgs) exceeded both the SSL (36 µg/kg) and the ISS (67,000 µg/kg). TCE concentrations exceeded the EPA SSL in six of the remaining nine samples. Several other contaminants exceeded their EPA SSLs, including benzene, 1-1-DCA, 1,1-DCE, *cis*-1,2-DCE, PCE, toluene, 1,1,1-TCA, and vinyl chloride. None of the other contaminant concentrations exceeded either an EPA SSL or an ISS for soil.

March 2022

Chain-of-custody records and analytical data from the March 2022 samples are in Appendix D. CVOCs were detected. TCE was detected in 12 of 16 samples from 11 borings at concentrations ranging from 0.93 to 13,400 µg/kg. PCE was detected in seven of 16 samples at concentrations ranging from 0.63 to 1,220 µg/kg. Vinyl chloride was detected in nine of 16 samples at levels ranging from 21.4 to 4,520 µg/kg. Toluene was detected in seven of 16 samples at concentrations ranging from 18 to 49,300 µg/kg. Other volatiles detected included 1,1-DCA (3.9 to 1,810 µg/kg); 1,1-DCE

(1.9 to 474 µg/kg); *cis*-1,2-DCE (4.1 to 57,600 µg/kg); naphthalene (7.8 to 646 µg/kg), 1,1,1-TCA (1.5 to 18,600 µg/kg); and vinyl chloride (5.3 to 170 µg/kg).

Petroleum-related VOCs detected included benzene (0.66 to 68.8 µg/kg); 1,2,4-trimethylbenzene (12 to 6,200 µg/kg); and 1,3,5-trimethylbenzene (7.1 to 2,010 µg/kg).

Twelve VOCs were detected at levels exceeding their respective EPA SSLs. The CVOC 1,1,2-TCA was not detected, but reported detection limits exceeded the EPA SSL of 32 µg/kg. Two other analytes had detection limits greater than their respective EPA SSLs including 1,1-DCA (one sample) and Naphthalene (four samples). CVOCs and VOCs exceeding included the following:

- Benzene (four samples, two from the oil pit and two from the landfill)
- 1,1-DCA (10 samples, all within the oil pit)
- 1,1-DCE (four samples, all from the oil pit)
- *Cis*-1,2-DCE (nine samples, one of which came from the landfill)
- Naphthalene (five samples, including three from the landfill)
- PCE (two samples from the oil pit)
- Toluene (five samples from the oil pit)
- 1,1,1-TCA (two samples from the oil pit)
- TCE (six samples, five from the oil pit and one from the landfill)
- 1,2,4-trimethylbenzene (three samples from the oil pit)
- 1,3,5-trimethylbenzene (one sample from the oil pit)
- Vinyl chloride (nine samples, with one from the landfill)

Concentrations of three VOCs detected during the March sampling event exceeded both EPA SSLs and ISSs for soils—vinyl chloride in one sample (DPT-29), 1,2,4-trimethylbenzene in two samples (DPT-35, -36), and 1,3,5-trimethylbenzene in one sample (DPT-35). All three of these instances occurred near the center of known contamination.

Tables 2 and 3 below list results from soil samples collected during October 2021 and March 2022 for selected contaminants detected at concentrations exceeding EPA SSLs and at concentrations exceeding both SSLs and ISSs.

TABLE 2

OCTOBER 2021 SOIL SAMPLE RESULTS
TANGLEFOOT LANE SITE – BETTENDORF, IOWA

Boring Number	Location	Depth (ft bgs)	Sample Number	Benzene	1,1-DCA	1,1,1-TCA	Toluene	PCE	TCE	*cis*-1,2-DCE	Vinyl Chloride
				Concentration (µg/kg)							
Risk-based SSL (TR=1E-06; THQ=1; DAF 20)				**4.6**	**15.6**	**56,000**	**15,200**	**102**	**3.6**	**220**	**0.13**
MCL-based SSL (TR=1E-06; THQ=1; DAF 20)				**52**	**NE**	**1,400**	**13,800**	**46**	**36**	**420**	**13.8**
Iowa Statewide Standard for Soil				**56,000**	**1,500,000**	**150,000,000**	**6,100,000**	**1,500,000**	**67,000**	**150,000**	**2,100**
DPT-21	Between MIP-21 and MIP-17	15-20	9039-1	14	5,400	170	120,000	170	37,000 J	110,000	170
		20-25	9039-2	53	4,000	5.0 U	36,000	5.0 U	89,000	27,000	38
DPT-22	Between MIP-17 and MIP-19	10-15	9039-3	8.3	450 J	6,300	27,000	57	80	19,000	170
		15-20	9039-4	18	3,500	480 J	60,000	36	33	45,000	34
DPT-23	Collocated with MIP-22 – Oil Pit	10-15	9039-5	2,600 U	2,600 U	740,000	3,800,000	74,000	3,600,000	39,000	2,600 U
		15-20	9039-6	2,600 U	2,600 U	190,000	740,000	20,000	810,000	9,900	2,600 U
DPT-24	Collocated with MIP-11 – SW of Oil Pit	25-30	9039-7	4.6 U	67	1,200	5,800	17	450 J	7,700	4.6 U
		30-35	9039-8	23	2,900	130	23,000	9.2 U	280	34,000	9.2 U
DPT-25	Collocated with MIP-13 – SW of DPT-24	20-25	9039-9	5.8	290 J	100	21,000	260 J	34	9,200	18
		25-30	9039-10	15	3,100	4.9	28,000	4.2 U	4.2 U	47,000	5.3
DPT-26	Collocated with MIP-14 – W of DPT-24	5-10	9039-11	4.9 U	4.9 U	28	4.9 U	4.9 U	62	64	4.9 U
		10-15	9039-12	4.3 U	4.9 U	1,100	4.9 U	5.1	1,700	880	4.3 U

Notes:

Orange shading indicates exceedance of SSL

Red shading indicates exceedance of both SSL and ISS value

DAF	Dilution-attenuation Factor
DCE	Dichloroethene
DCA	Dichloroethane
DPT	Direct-push technology
µg/kg	Micrograms per kilogram
ft bgs	Feet below ground surface
J	Estimated value
MCL	Maximum Contamination Level
MIP	Membrane interface probe
PCE	Tetrachloroethene
SB	Soil boring
SSL	Soil Screening Level
TCE	Trichloroethene
TCA	Trichloroethane
THQ	Target Hazard Quotient
TR	Target Cancer Risk
U	Analyte not detected at concentration at or above reporting limit at immediate left.

TABLE 3

MARCH 2022 SOIL SAMPLE RESULTS
TANGLEFOOT LANE SITE – BETTENDORF, IOWA

Boring Number	Location	Depth (ft bgs)	Sample Number	Benzene	1,1-DCA	*cis*-1,2-DCE	Naphthalene	PCE	Toluene	TCE	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Vinyl Chloride
				Concentration (µg/kg)									
Risk-based SSL (TR=10E-06; THQ=1; DAF 20)				**4.6**	**15.6**	**220**	**7.6**	**102**	**15,200**	**3.6**	**1,620**	**1,740**	**0.13**
MCL-based SSL (TR=10E-06; THQ=1; DAF 20)				**52**	**NE**	**420**	**NE**	**46**	**13,800**	**36**	**NE**	**NE**	**13.8**
Iowa Statewide Standard for Soil				**56,000**	**1,500,000**	**150,000**	**1,100**	**1,500,000**	**6,100,000**	**67,000**	**760**	**760**	**2,100**
DPT-27	Collocated with MIP-33	5-10	60395120005	1.0 J	24.4	215	<0.85	<0.43	<1.4	13.4	<0.69	<0.65	<0.69
DPT-28	Collocated with MIP-26	10-15	60395120006	42.8 J	<107	1,800	<82.3	<27.0	27,100	<26.3	43.5 J	<42.8	1,060
DPT-29	Collocated with MIP-26	15-20	60395120009	63.6 J	228 J	9,700	<85.2	<27.9	28,400	<27.2	42.4 J	<44.3	4,100
DPT-30	Collocated with MIP-27	5-10	60395120010	1.9 J	235	698	<0.82	0.63 J	<1.1	0.93 J	<0.67	<0.63	140
DPT-31	Collocated with MIP-38	5-10	60395120013	<25.3	149 J	1,250	<82.8	<27.1	<61.4	546	1,530	649	51.3 J
DPT-32	Collocated with MIP-38	10-15	60395120015	1.6 J	124	3,170	7.6 J	0.94 J	18	16.7	22.8	7.1	67.2
DPT-33	Collocated with MIP-41	10-15	60395120016	0.96 J	48	8.8	<0.83	13.6	<1.2	3,440	<0.68	<0.64	<0.68
DPT-34	Collocated with MIP-35	15-20	60395120019	1.1 J	3.9 J	5.6	<0.74	15.5	<1.3	3,410	<0.61	<0.57	<0.60
DPT-35	Collocated with MIP-25	10-15	60395120020	<24.7	1,720	6,030	646	994	24,300	<25.7	6,200	2,010	1,450
DPT-36	Collocated with MIP-25	15-20	60395120021	<23.0	1,810	8,230	521 J	1,220	49,300	13,400	2,340	728	480
DPT-37	Collocated with MIP-29	20-25	60395120022	68.8 J	1,280	57,600	<83.9	<27.5	37,400	4,590	<36.1	<43.6	4,520
DPT-38	Collocated with MIP-32	10-15	60395120023	1.3 J	66.9	95.6	<0.80	1.4 J	<1.6	1,950	<0.65	<0.61	<0.65
DPT-L1	Collocated with MIP-L3	5-8	60395120001	0.66 J	<0.41	177	7.8 J	<0.44	<1.4	21.2	<0.71	<0.66	<0.7
DPT-L2	Collocated with MIP-L3	25-30	60395120002	13. J	15	869	<0.82	<0.41	<1.3	6,440	<0.67	<0.63	21.4
DPT-L3	Collocated with MIP-L2	5-10	60395120003	65.4	4.2 J	20.1	15.8 J	<0.78	69.9	2.8 J	105	31.7	<1.3
DPT-L4	Collocated with MIP-L1	10-15	60395120004	52.4	4.3 J	4.1 J	14.4 J	<0.8	<8.1	<1.4	12	4.2 J	<1.3

Notes:

Orange shading indicates exceedance of SSL or ISS

Red shading indicates exceedance of both SSL and ISS value

DAF	Dilution-attenuation Factor
DCE	Dichloroethene
DCA	Dichloroethane
DPT	Direct-push technology
µg/kg	Micrograms per kilogram
ft bgs	Feet below ground surface
J	Estimated value
MCL	Maximum Contamination Level
MIP	Membrane interface probe
PCE	Tetrachloroethene
SSL	Soil Screening Level
TCE	Trichloroethene
THQ	Target Hazard Quotient
TR	Target Risk

4.3 SEDIMENT SAMPLING

At request of EPA, sediment samples were collected along the unnamed creek to the south of the site, as well as from a drainage ditch coming off the landfill. The surface water sample collected at the landfill was from standing water within the drainage ditch. Three sediment samples collocated with surface water samples were collected and analyzed for VOCs and PCBs. Acetone, *cis*-1,2-DCE, *trans*-1,2-DCE, and TCE were detected in sediment samples; however, no concentration of these exceeded an established EPA risk-based and MCL-based SSL or an ISS for soil; TCE was detected in the method blank. Only one detection of PCBs was reported in sediments—Arochlor 1242 detected at 162,000 µg/kg, exceeding the EPA risk-based SSL level of 24 µg/kg. This detection occurred in the sediment sample collected closest to the landfill. No other detection of PCBs occurred in any other sample; however, detection limits for several PCBs were significantly higher than the EPA risk-based SSL. Figure 14 shows locations of sediment and surface water samples, and Figure 15 shows selected VOC results from sediment and surface water samples.

4.4 SURFACE WATER SAMPLING

Three surface water samples were collected along the unnamed creek to the south of the site and analyzed for VOCs. Vinyl chloride was detected at 9.8 µg/L in the surface water sample collected near the landfill, which exceeded the EPA MCL of 2 µg/L. No other VOC was detected at concentration exceeding an MCL and no result exceeded Iowa water quality standards for the designations of Crow Creek or its tributaries. Crow Creek and its tributaries are classified as A2 (secondary contact recreational) and B (WW-2) (warm water), and are not considered sources of drinking water (Iowa Department of Natural Resources 2019).

4.5 QUALITY CONTROL SAMPLES

During the October 2021 event, one rinsate blank, one field blank, and one trip blank were collected. During the March 2022 event, three trip blanks, one field blank, and one rinsate blank were collected. Two of the trip blanks were designated for solids, while remaining blank was designated for water. All blanks were submitted for laboratory analyses for VOCs.

Analytical Data Summary

No VOCs were detected in the blank samples from the October 2021 event. Detections of acetone, 1,2-DCE, *cis*-1,2-DCE, TCE, and toluene were reported in one trip blank, as well as the field and rinsate

blanks from the March sampling event. After validation, these detections were qualified as non-detect, due to method blank contamination.

4.6 DEVIATIONS FROM QAPP

In October, START originally intended to collect 40 soil samples and 20 groundwater samples. MIP activities were planned for 3 days; however, at request of EPA, MIP readings were taken deeper than initially planned at some MIP locations, and MIP activities continued through most of the fourth day on site. Moreover, two more MIP locations were assessed than originally planned. This change in MIP activities resulted in soil sampling at six select locations. A total of 12 soil samples were collected. No groundwater samples were collected because MIP activities took longer than previously anticipated. An equipment rinsate blank from the DPT shoe soil sampling equipment was collected.

In March, START originally intended to collect surface water and sediment samples from the creek near the oil pit location. Upon EPA's request, one sample was collected from a drainage ditch south of the landfill. START also initially intended only VOCs as analytes, but after further discussion with EPA, sediment samples were also collected for analysis for PCBs. MIP logging was initially planned only at the oil pit; however, upon EPA request, MIP logging occurred on the southernmost edge of the landfill to determine if the landfill was a source of site contamination. Based on detection of PCBs in sediment near the landfill, EPA requested that soil samples collected at the landfill be analyzed for PCBs although those samples were past the holding time for PCB analysis. All results came back as non-detect; however, some reporting limits exceeded the EPA SSLs. No other deviations occurred.

5.0 SUMMARY

EPA Region 7 tasked Tetra Tech START to conduct an MIP survey to assist removal activities at the oil pit area of the Tanglefoot Lane site in Bettendorf, Iowa. START conducted initial activities for this removal assessment during May 2021 in an attempt to delineate full extents of contamination. Via MIP/EC logging, further delineation of extents of contamination occurred in October 2021 and March 2022.

START sampled at the site during October 25-29, 2021, and March 7-10, 2022. Those field activities included MIP/EC logging at 45 borings and collection of 28 soil, three sediment, and three surface water samples. TCE was detected in 23 soil samples at concentrations as high as 3,600,000 µg/kg (in a sample collected within the area of the oil pit). PCE, TCE, and degradation products therefrom were detected in 25 samples. 1,1-DCA was detected in 22 samples at concentrations as high as 5,400 µg/kg (at the southern portion of the oil pit, near the creek). 1,1-DCE and both the *cis* and *trans* isomers of 1,2-DCE were detected in all 28 samples, with *cis*-1,2-DCE the more prevalent in 27 samples and a concentration of *cis*-1,2-DCE detected as high as 110,000 µg/kg (at the south side of the oil pit). Several fuel-related VOCs, including benzene, toluene, 1,2,4- and 1,3,5-trimethylbenzene, and xylene, were detected in samples collected throughout the site. Fuel-related VOCs are known to enhance PCE and TCE degradation (EPA 1998).

TCE, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and vinyl chloride were detected at concentrations exceeding both ISSs and EPA SSLs. TCE concentrations exceeded the EPA SSL in 16 samples and exceeded the ISS in three samples. In samples from DPT-23, at the suspected oil pit, detected TCE concentrations at 810,000 and 3,600,000 µg/kg exceeded both the SSL and the ISS. At DPT-21, on the southern portion of the site, a TCE level estimated at 37,000 µg/kg exceeded the SSL within 15-20 feet bgs, and another TCE concentration of 89,000 µg/kg exceeded both the SSL and the ISS within 20-25 feet bgs. 1,2,4-trimethylbenzene concentrations exceeded the EPA SSL in two samples and the ISS in three samples. 1,3,5-trimethylbenzene concentration exceeded both the EPA SSL and ISS in one sample. Vinyl chloride concentrations exceeded the EPA SSL in 14 samples and the ISS in two samples. All samples were collected at the source or near the center of known contamination.

Eight other contaminants exceeded EPA SSLs, including benzene; 1,1-DCA; 1,1-DCE; *cis*-1,2-DCE; naphthalene; PCE; toluene; and 1,1,1-TCA. Of these contaminants, 1,1-DCA and *cis*-1,2-DCE were the most prevalent, exceeding SSLs in 67% of samples collected. *Cis*-1,2-DCE concentrations exceeded the EPA SSL in 20 of 28 samples, and 1,1-DCA concentrations did so in 19 of 28 samples.

One surface water sample nearest to the landfill of the three collected yielded vinyl chloride at concentration 9.8 µg/L, above the EPA MCL of 2 µg/L. While no VOC concentration detected in sediments exceeded the EPA SSL, in the sediment sample nearest to the landfill of the three collected, the PCB Arochlor 1242 was detected at 162,000 µg/kg, well above the EPA SSL of 24 µg/kg.

Based on data obtained during the survey and from historical investigations at the site, lateral and vertical extents of contamination appear to have been delineated over an approximate area of 2 acres south of the oil pit. Contamination at the oil pit has followed a thin sandy layer running from north to south and appears to be remaining in place in the south near the creek. Belief during the October event was that contamination had not moved past the sanitary sewer line along the creek; however, the March event revealed movement of contamination past the sewer line up to the creek. Based on results from surface water and sediment samples collected near the oil pit, contamination is not leaching to the creek at levels of concern, likely due to relative flatness of the creek area.

Based on MIP logs and data from soil samples collected at the southern edge of the landfill, it appears that the landfill location on site is likely contributing to site contamination. This was confirmed by results from both sediment and surface water samples collected nearest the landfill, as both Arochlor 1242 and vinyl chloride exceeded their respective EPA limits. Results from downstream indicate that the contamination likely has not yet reached the creek; but contamination appears to be moving south toward the creek. Further assessment may be required to delineate the spread of contamination coming from the landfill area.

6.0 REFERENCES

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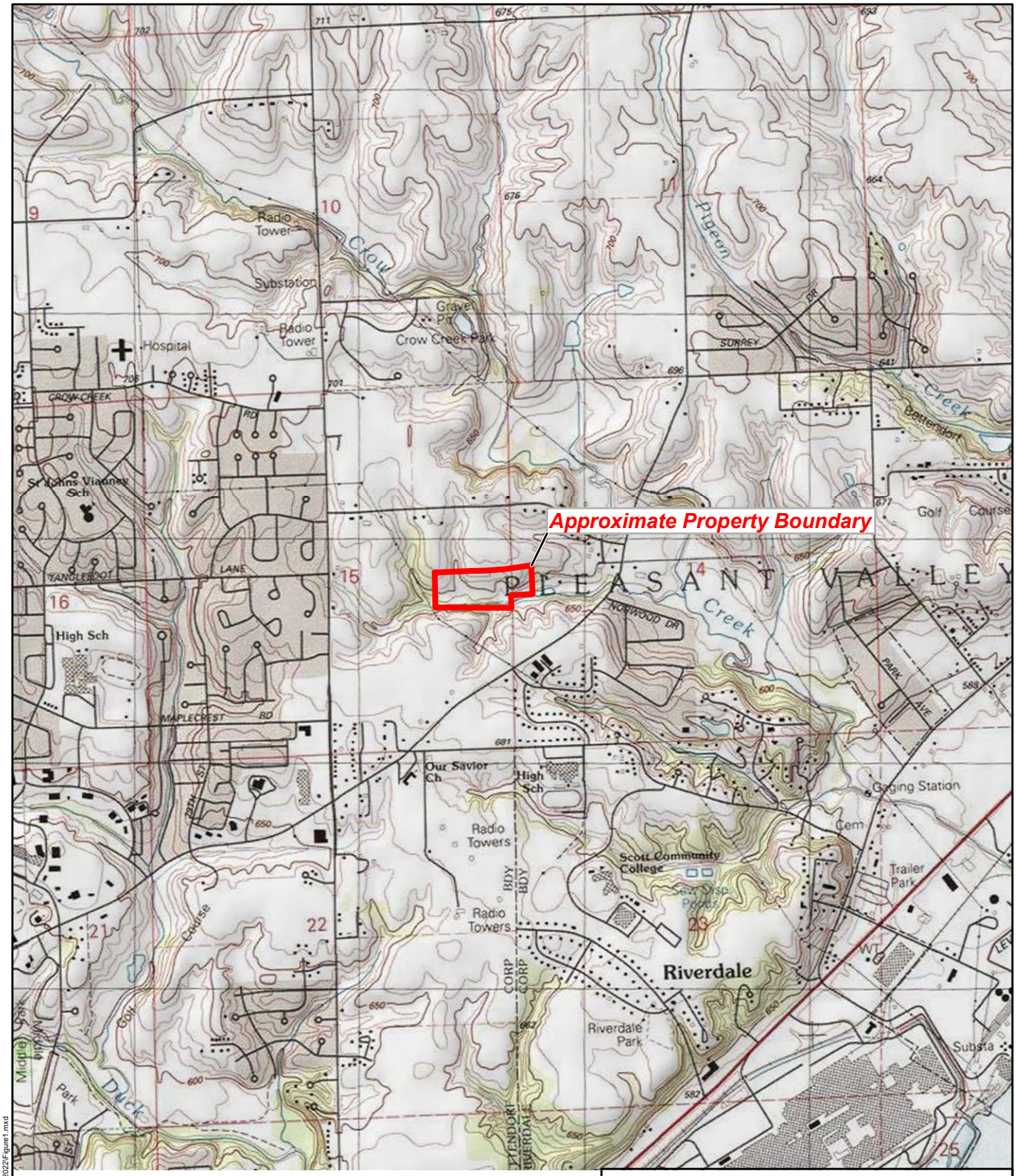
APPENDIX A

FIGURES



Source: USGS Silvis, IA 7.5 Minute Topo Quad, 1991
Scott County Iowa, GIS Map Service, 2015

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 1
Site Location Map

TETRA TECH

Date: 4/5/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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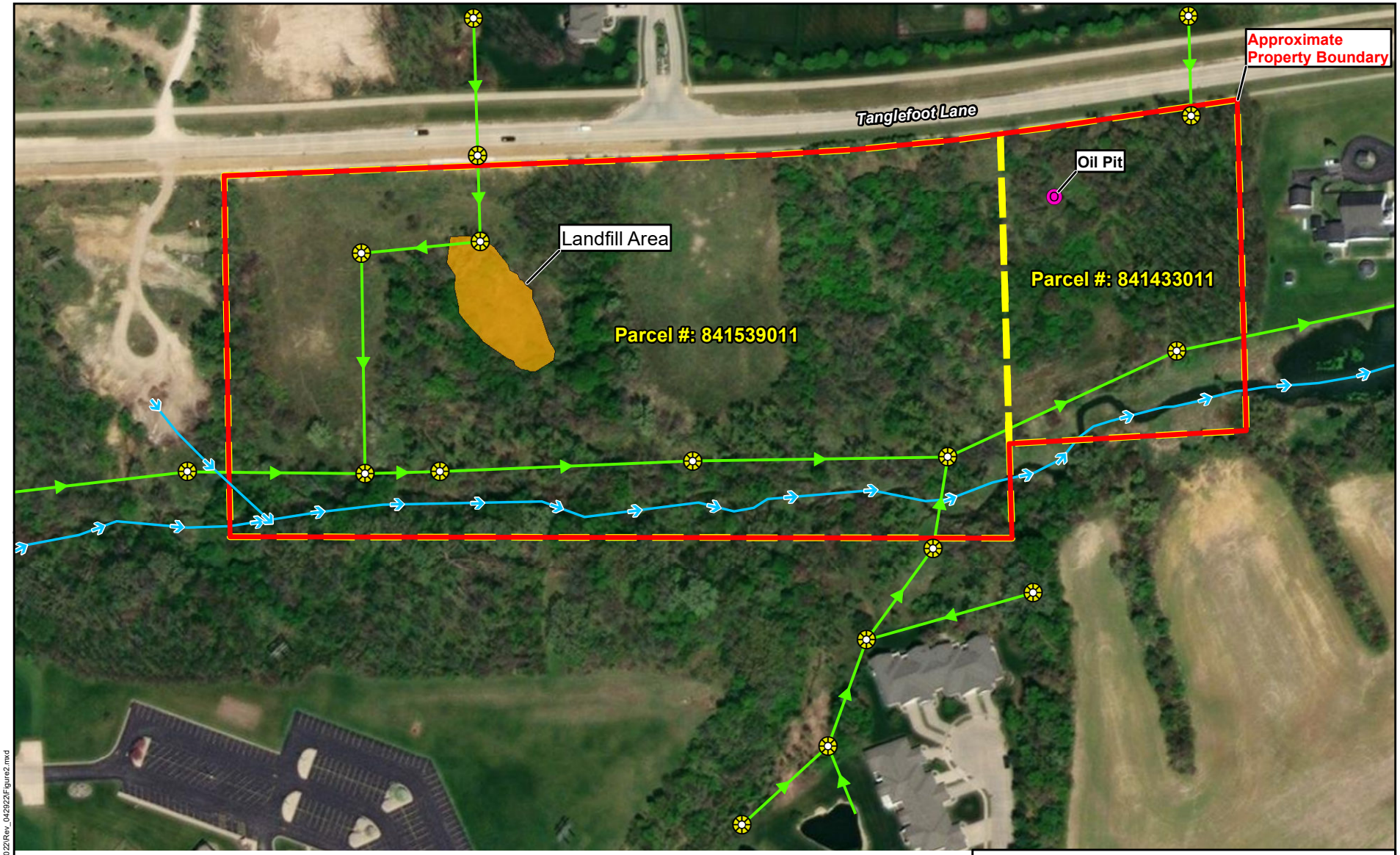

Legend

- Oil pit location
- Sanitary sewer manhole
- Creek
- Sanitary sewer line
- Approximate parcel boundary
- Approximate property boundary
- Estimated landfill area

N

0 100 200

Feet

Source: Esri, ArcGIS Online, World Imagery, 2021; Scott County Iowa GIS Map Service, The Sidwell Company, 2022

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 2
Site Layout Map

TETRA TECH

Date: 4/29/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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Legend

- March 2022 MIP location
- October 2021 MIP location
- Oil pit location
- Sanitary sewer manhole
- Sanitary sewer line
- Approximate property boundary
- MIP Membrane interface probe

N

0 50 100

Feet

Source: Esri, ArcGIS Online, World Imagery, 2021

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 3
2021 and 2022
Oil Pit Membrane Interface Locations

TETRA TECH

Date: 4/29/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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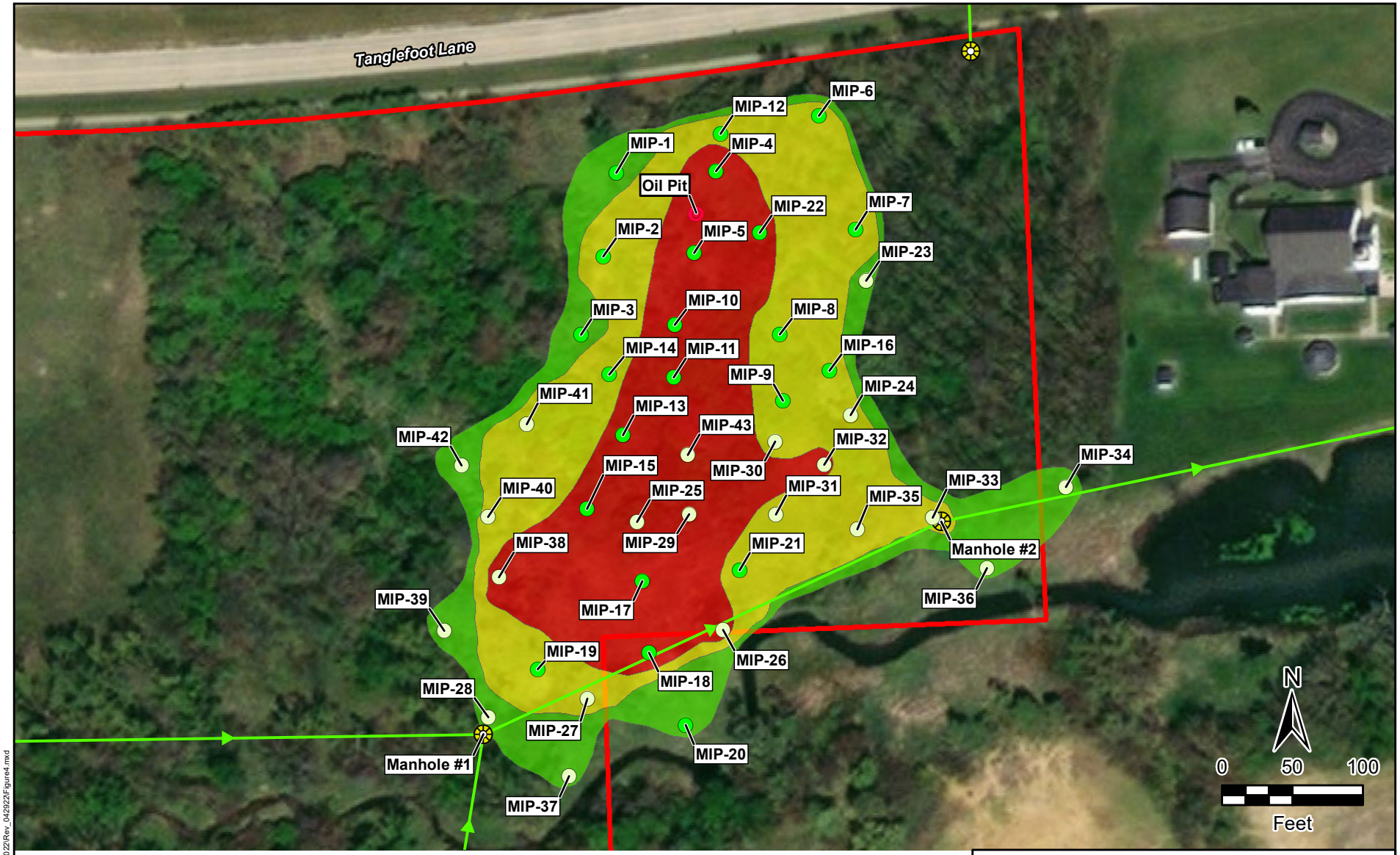

Legend

- March 2022 MIP location
- October 2021 MIP location
- Oil pit location
- Sanitary sewer manhole
- Sanitary sewer line
- Approximate property boundary

XSD response

- Low
- Medium
- High

MIP Membrane interface probe

XSD Chlorinated solvent response

Source: Esri, ArcGIS Online, World Imagery, 2021

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 4

Oil Pit MIP XSD Response Map

TETRA TECH

Date: 4/29/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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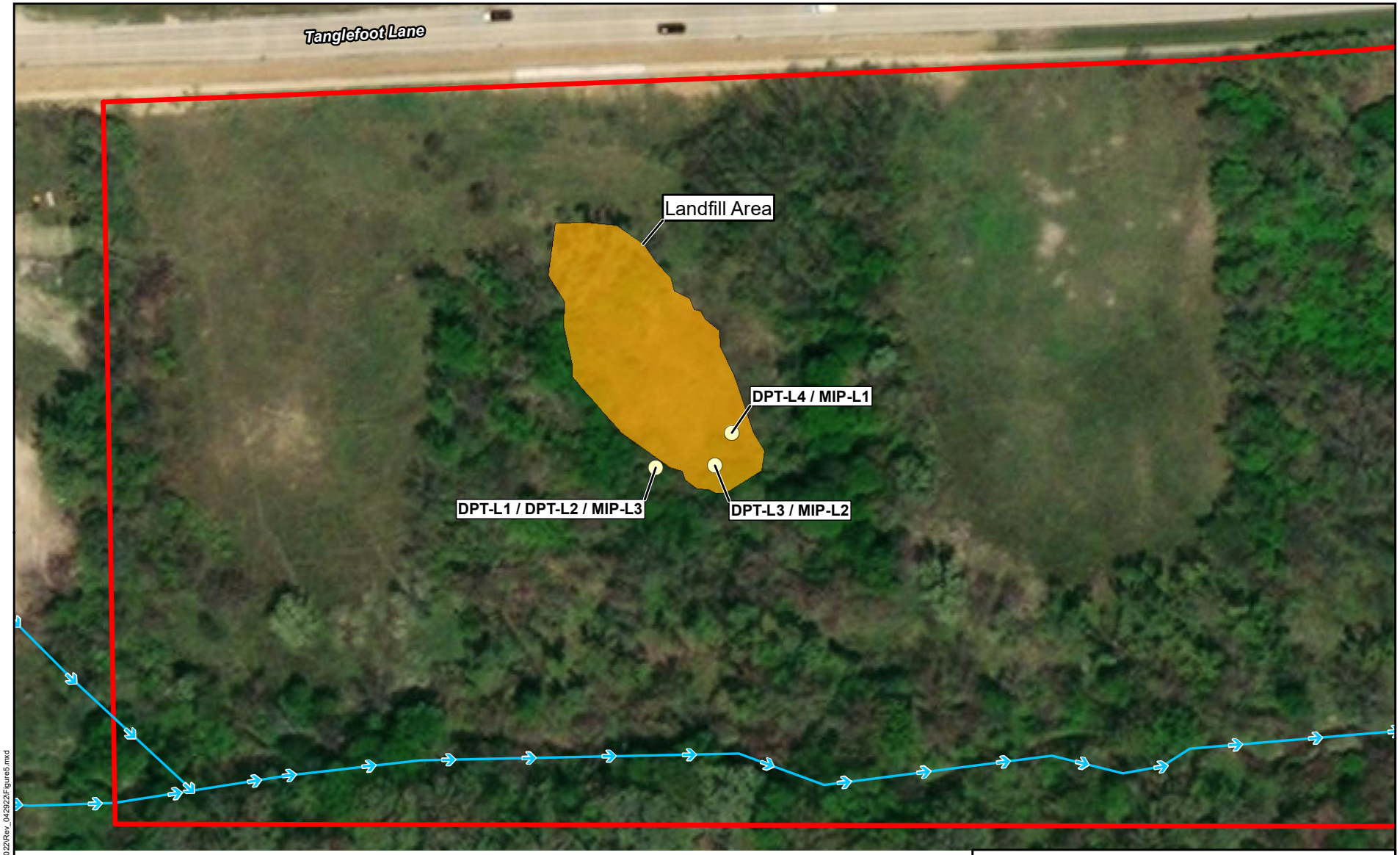

Legend

- Landfill DPT / MIP soil sample location
- Creek
- Approximate property boundary
- Estimated landfill area

DPT Direct-push technology

MIP Membrane interface probe

N

0 50 100

Feet

Source: Esri, ArcGIS Online, World Imagery, 2021

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 5
Landfill Geoprobe Locations

TETRA TECH

Date: 4/29/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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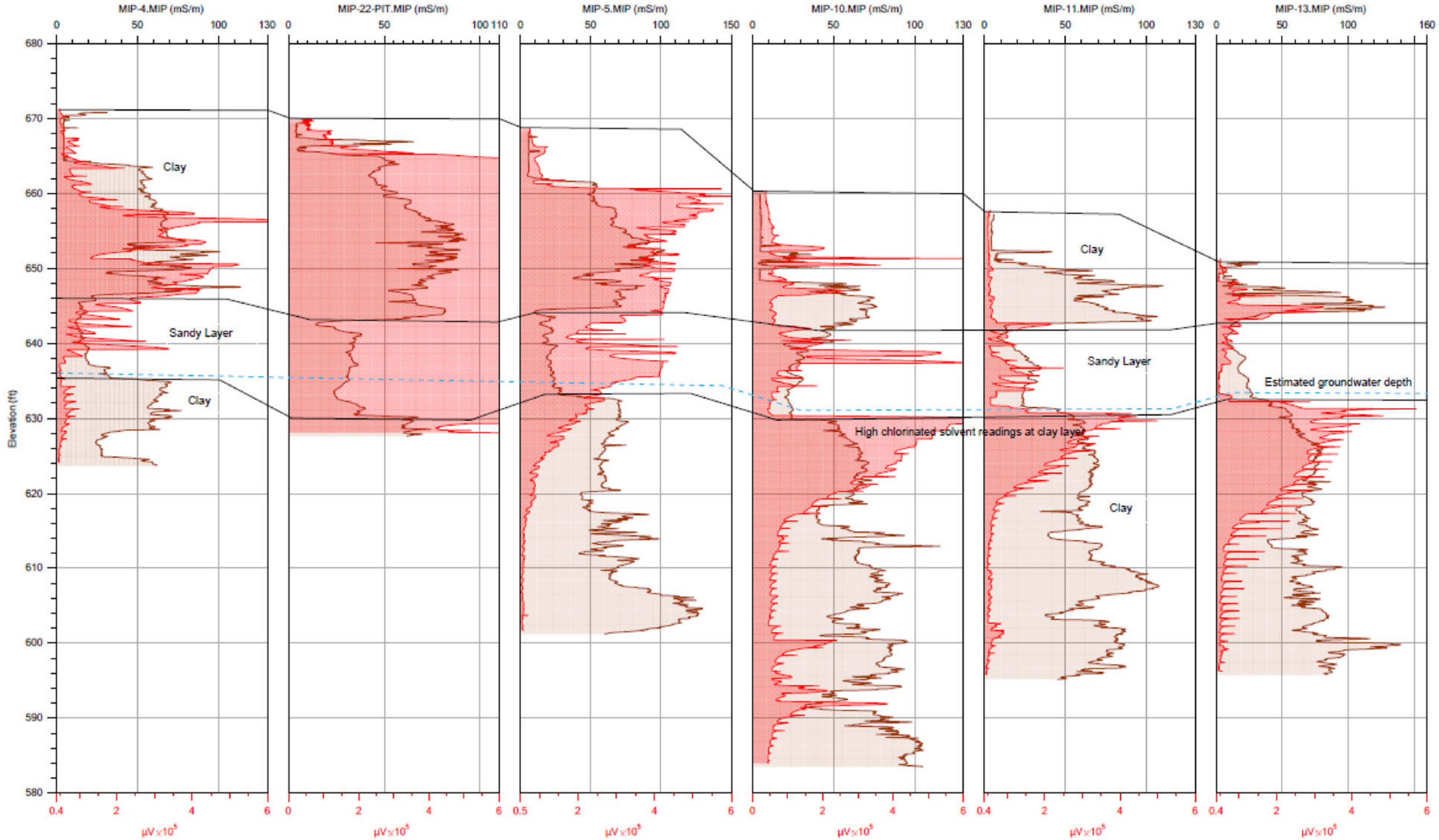
North

South



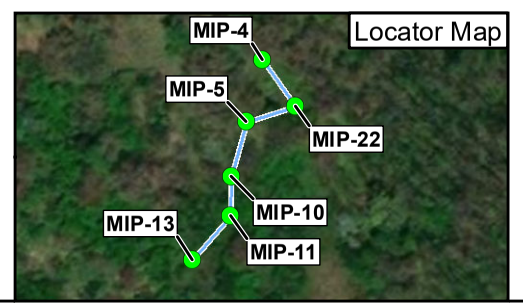
EC / XSD Max

Company: BGS	Operator: MTO	MIP-4.MIP 10/26/2021	MIP-10.MIP 10/27/2021
Project ID: Tanglefoot Site	Client: TetraTech	MIP-22-PIT.MIP 10/28/2021	MIP-11.MIP 10/27/2021
		MIP-5.MIP 10/25/2021	MIP-13.MIP 10/27/2021

Legend

- MIP logging location
- Cross-section locator
- EC response (mS/m)
- XSD response (µv)

EC	Electrical conductivity
ft	Feet
MIP	Membrane interface probe
mS/m	Millisiemens per meter
µv	Microvolts
XSD	Halogen specific detector



N

0 90 180

Feet

Scale of Locator Map

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 6
October 2021 North to South
MIP Cross-section at Center Site Area

TETRA TECH

Date: 4/29/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

Source: Esri, ArcGIS Online, World Imagery, 2021; BGS, Direct Image, EC/XSD Max, Tanglefoot Lane, 2021

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West

East

MIP-19.MIP (mS/m)

MIP-18.MIP (mS/m)

MIP-17.MIP (mS/m)

MIP-21.MIP (mS/m)

0 20 40 60 80 100 120 140

Elevation (ft)

637 636 634 632 630 628 626 624 622 620 618 616 614 612 610 608 606 604 602 600 598 596 594

Estimated groundwater depth

0 2 4 6 8 9

$\mu V \times 10^5$

Direct Image By Geoprobe Systems

EC / XSD Max

Company:	BGS	Operator:	MTO
Project ID:	Tanglefoot Site	Client:	TetraTech

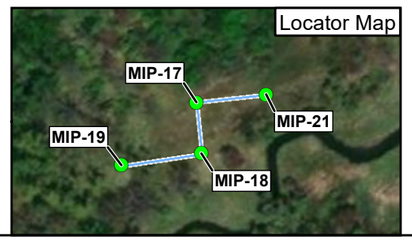
MIP-19.MIP	10/28/2021
MIP-18.MIP	10/28/2021
MIP-17.MIP	10/28/2021
MIP-21.MIP	10/28/2021

Legend

- MIP logging location
- Cross-section locator
- EC response (mS/m)
- XSD response (µv)

EC	Electrical conductivity
ft	Feet
MIP	Membrane interface probe
mS/m	Millisiemens per meter
µv	Microvolts
XSD	Halogen specific detector

Source: Esri, ArcGIS Online, World Imagery, 2021; BGS, Direct Image, EC/XSD Max, Tanglefoot Lane, 2021



N

0 75 150

Feet

Scale of Locator Map

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 7
October 2021 West to East
MIP Cross-section at Southern Site Area

TETRA TECH

Date: 4/29/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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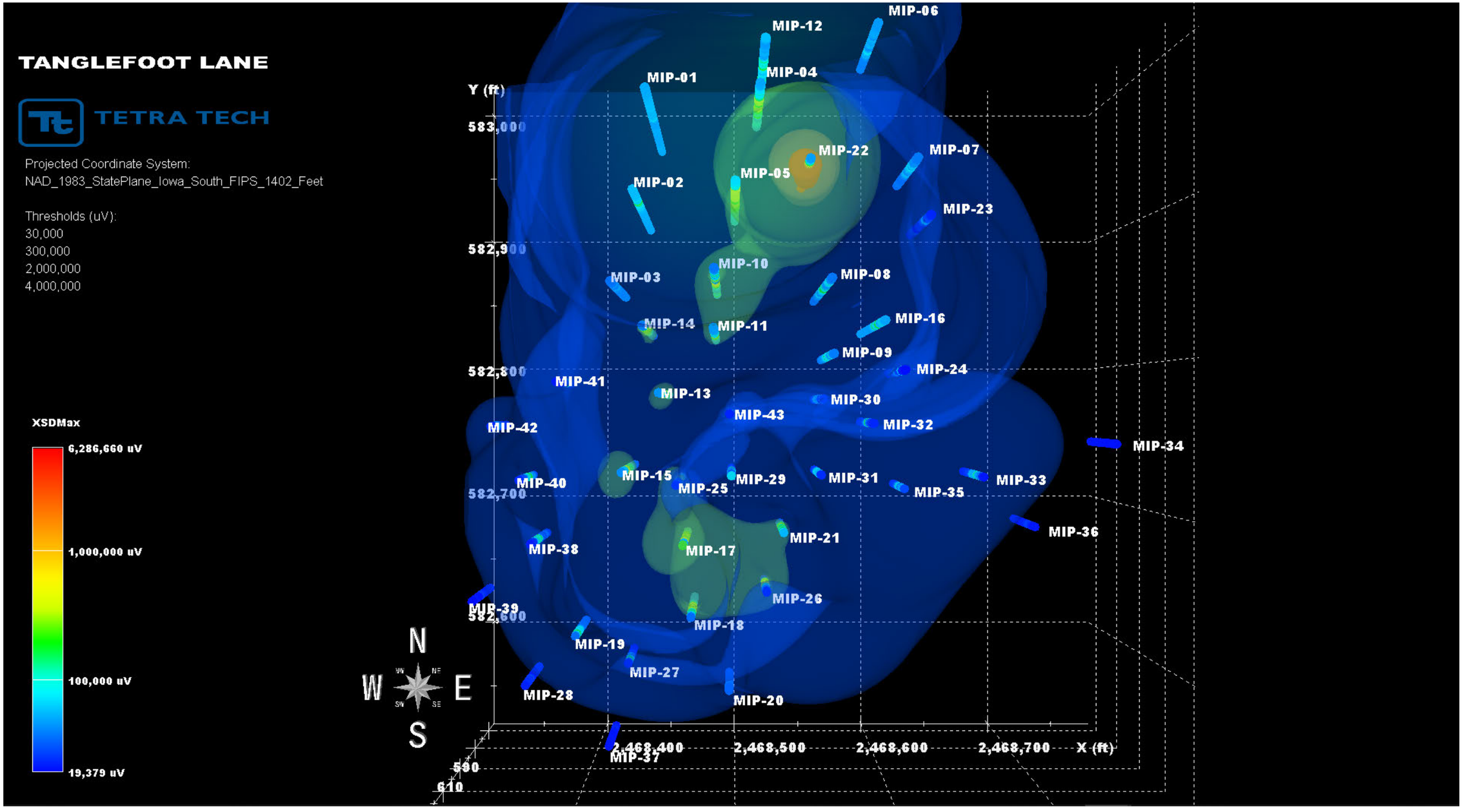

MIP Membrane interface probe
µv Microvolts
XSD Halogen specific detector

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 8
3D Image of MIP Response - Oil Pit Area

TETRA TECH

Date: 5/9/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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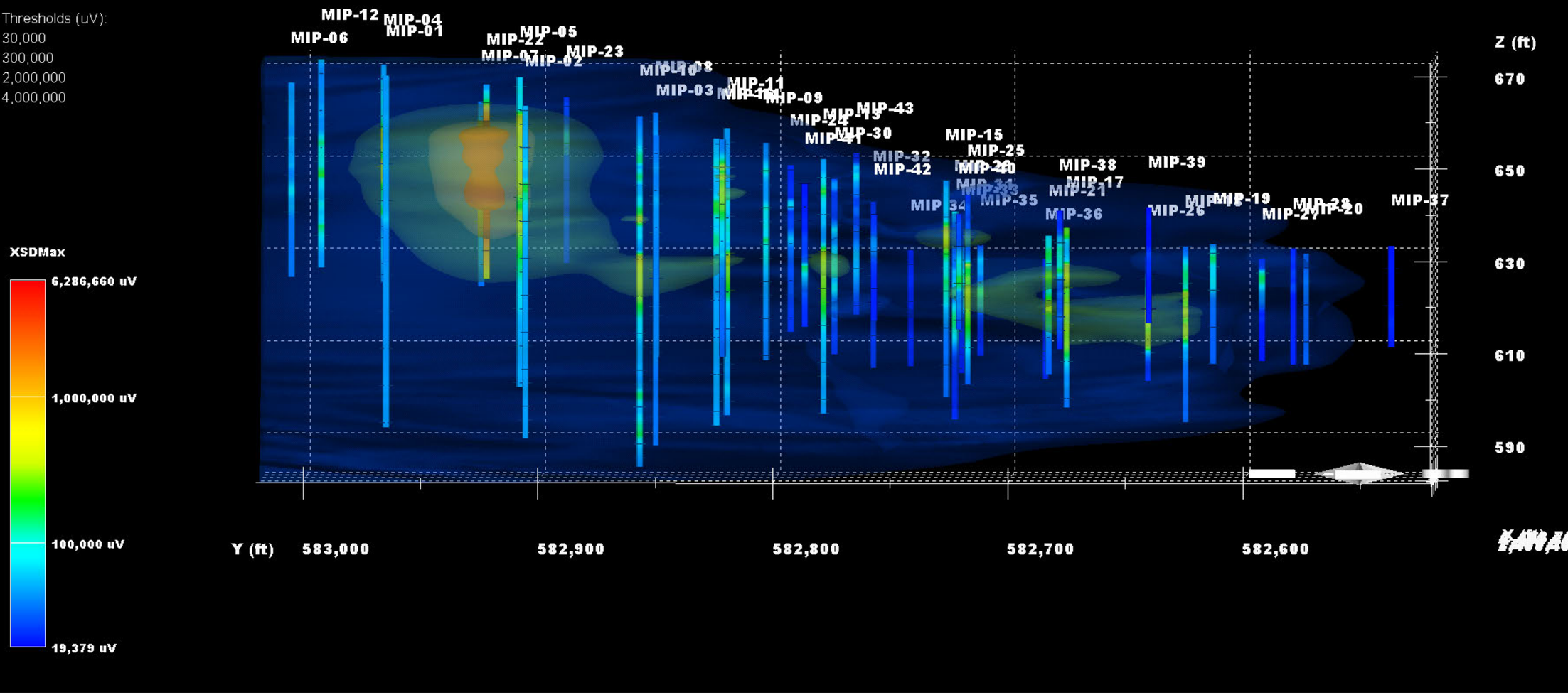
TANGLEFOOT LANE

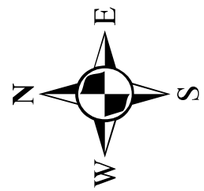
TETRA TECH

Projected Coordinate System:
NAD_1983_StatePlane_Iowa_South_FIPS_1402_Feet

Thresholds (uV):
30,000
300,000
2,000,000
4,000,000



MIP Membrane interface probe
µv Microvolts
XSD Halogen specific detector



Tanglefoot Lane Site
Bettendorf, Iowa

Figure 9
3D Image of MIP Response
Oil Pit Area Side View

TETRA TECH

Date: 5/25/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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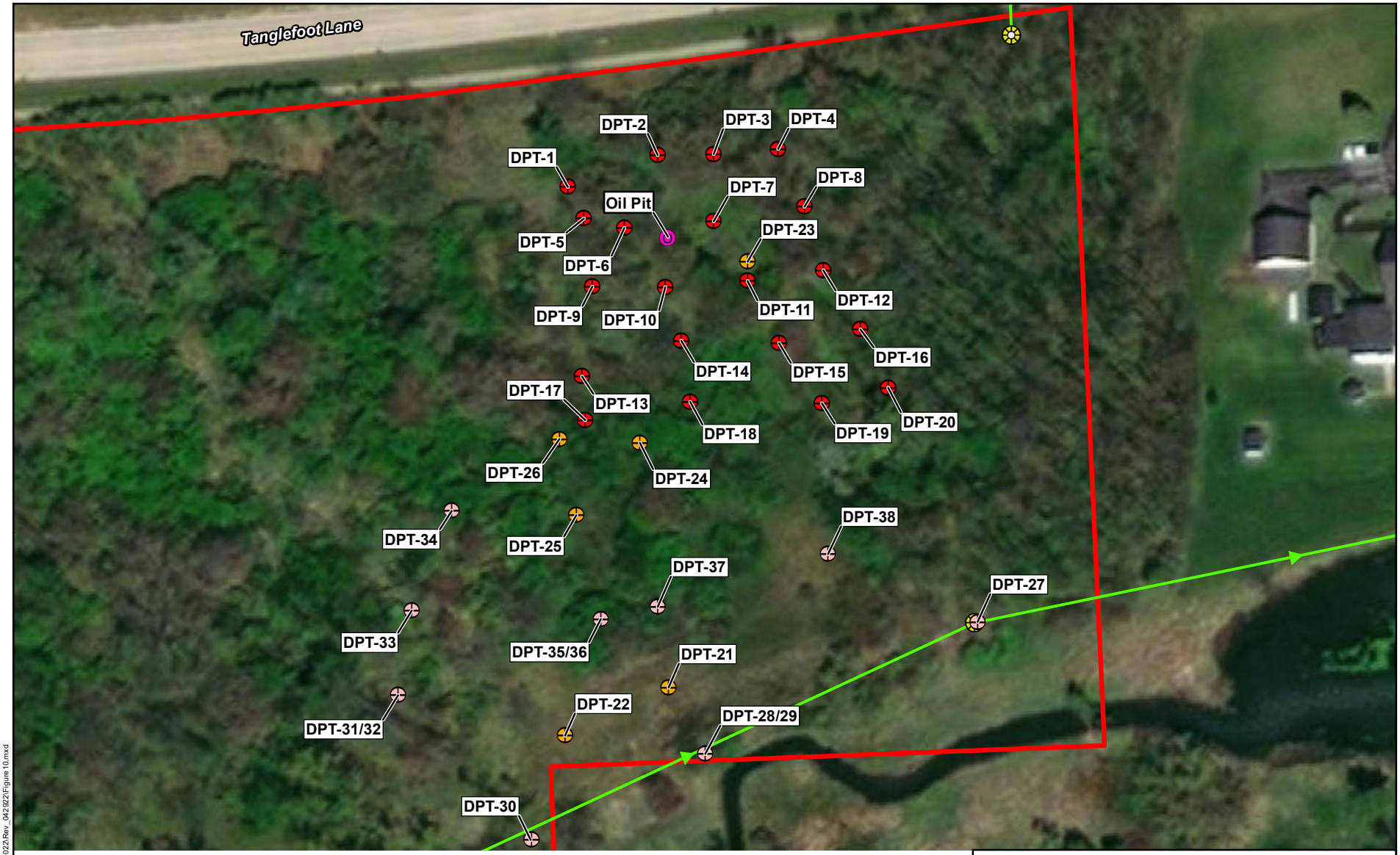

Legend

- May 2021 DPT soil sample location
- October 2021 DPT soil sample location
- March 2022 DPT soil sample location
- Oil pit location
- Sanitary sewer manhole
- Sanitary sewer line
- Approximate property boundary
- DPT Direct-push technology

N

0 40 80

Feet

Source: Esri, ArcGIS Online, World Imagery, 2021

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 10

All Oil Pit DPT Locations 2021 and 2022

TETRA TECH

Date: 5/9/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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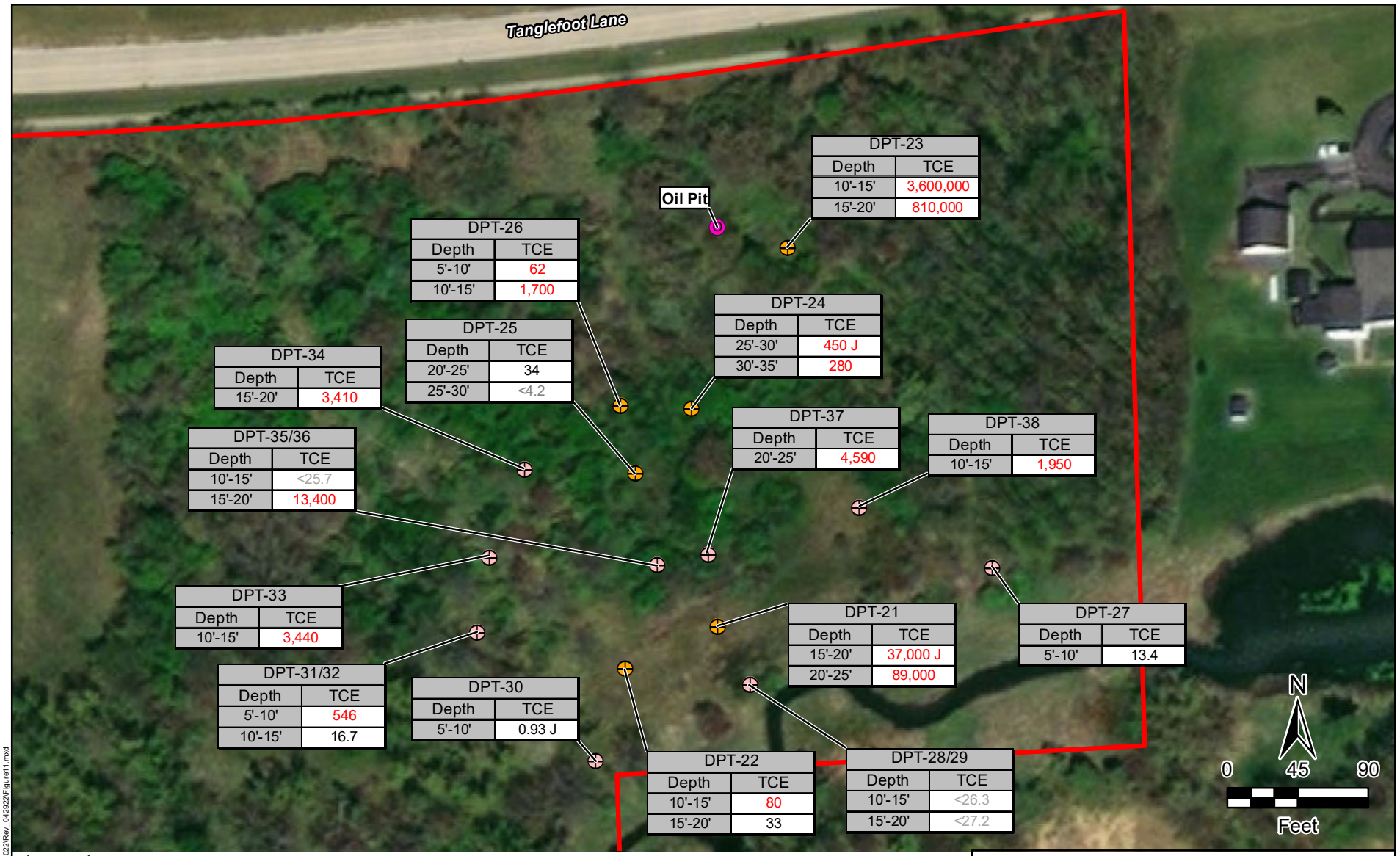

Legend

- March 2022 DPT soil sample location
- October 2021 DPT soil sample location
- Oil pit location
- Approximate property boundary
- DPT Direct-push technology

Source: Esri, ArcGIS Online, World Imagery, 2021

EPA U.S. Environmental Protection Agency
J Estimated result
SSL Soil screening level
TCE Trichloroethene
U Not detected
< Less than simple quantitation limit to the right

Notes:
- All results are in micrograms per kilogram (µg/kg).
- Red text indicates exceedances of EPA SSL.

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 11
TCE Soil Sampling Results Map
2021 - 2022 - Oil Pit Area

TETRA TECH

Date: 5/26/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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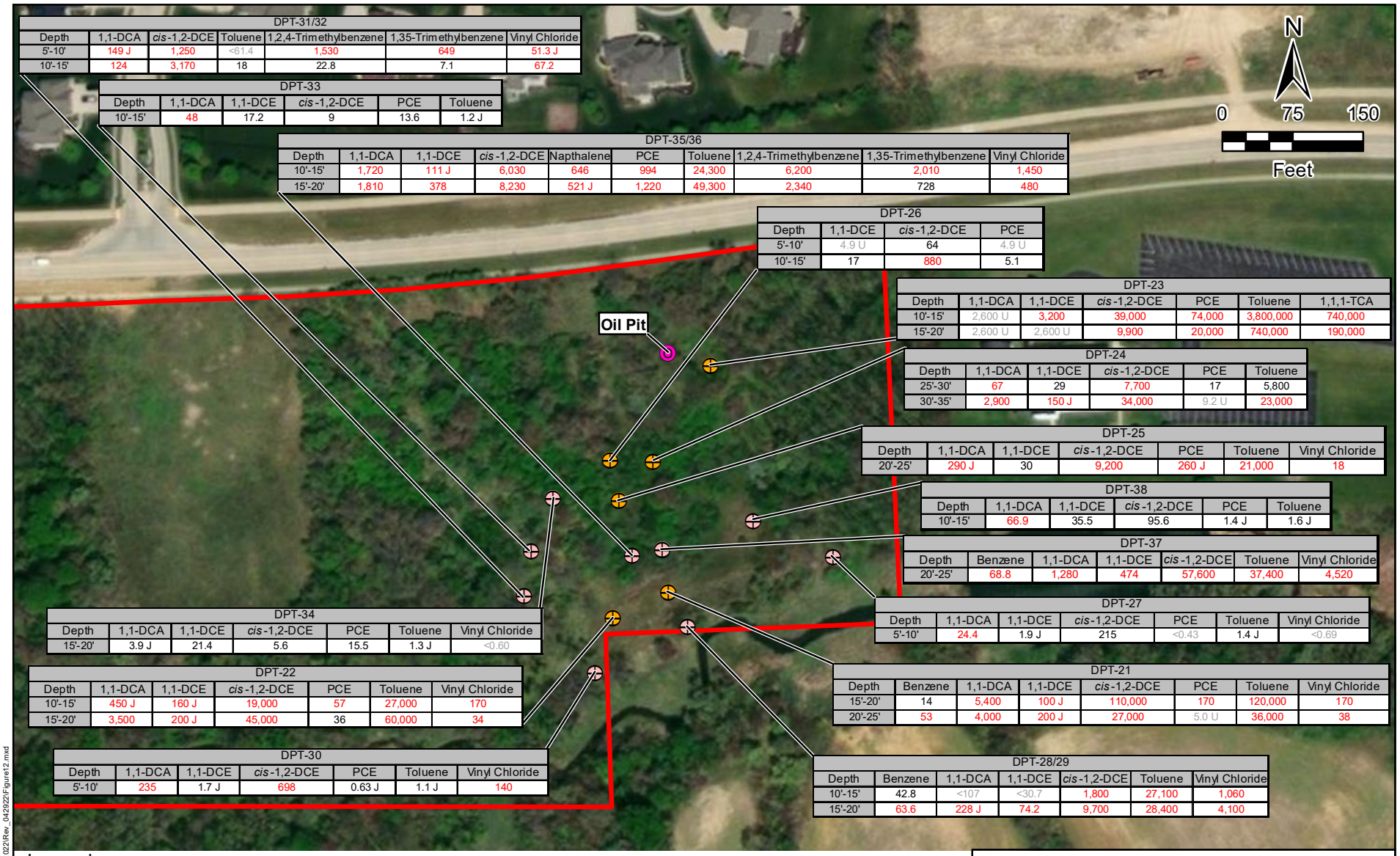

DPT-31/32

Depth	1,1-DCA	*cis*-1,2-DCE	Toluene	1,2,4-Trimethylbenzene	1,35-Trimethylbenzene	Vinyl Chloride
5'-10'	149 J	1,250	<61.4	1,530	649	51.3 J
10'-15'	124	3,170	18	22.8	7.1	67.2

DPT-33

Depth	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	PCE	Toluene
10'-15'	48	17.2	9	13.6	1.2 J

DPT-35/36

Depth	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	Napthalene	PCE	Toluene	1,2,4-Trimethylbenzene	1,35-Trimethylbenzene	Vinyl Chloride
10'-15'	1,720	111 J	6,030	646	994	24,300	6,200	2,010	1,450
15'-20'	1,810	378	8,230	521 J	1,220	49,300	2,340	728	480

DPT-26

Depth	1,1-DCE	*cis*-1,2-DCE	PCE
5'-10'	4.9 U	64	4.9 U
10'-15'	17	880	5.1

DPT-23

Depth	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	PCE	Toluene	1,1,1-TCA
10'-15'	2,600 U	3,200	39,000	74,000	3,800,000	740,000
15'-20'	2,600 U	2,600 U	9,900	20,000	740,000	190,000

DPT-24

Depth	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	PCE	Toluene
25'-30'	67	29	7,700	17	5,800
30'-35'	2,900	150 J	34,000	9.2 U	23,000

DPT-25

Depth	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	PCE	Toluene	Vinyl Chloride
20'-25'	290 J	30	9,200	260 J	21,000	18

DPT-38

Depth	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	PCE	Toluene
10'-15'	66.9	35.5	95.6	1.4 J	1.6 J

DPT-37

Depth	Benzene	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	Toluene	Vinyl Chloride
20'-25'	68.8	1,280	474	57,600	37,400	4,520

DPT-27

Depth	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	PCE	Toluene	Vinyl Chloride
5'-10'	24.4	1.9 J	215	<0.43	1.4 J	<0.69

DPT-34

Depth	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	PCE	Toluene	Vinyl Chloride
15'-20'	3.9 J	21.4	5.6	15.5	1.3 J	<0.60

DPT-21

Depth	Benzene	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	PCE	Toluene	Vinyl Chloride
15'-20'	14	5,400	100 J	110,000	170	120,000	170
20'-25'	53	4,000	200 J	27,000	5.0 U	36,000	38

DPT-22

Depth	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	PCE	Toluene	Vinyl Chloride
10'-15'	450 J	160 J	19,000	57	27,000	170
15'-20'	3,500	200 J	45,000	36	60,000	34

DPT-28/29

Depth	Benzene	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	Toluene	Vinyl Chloride
10'-15'	42.8	<107	<30.7	1,800	27,100	1,060
15'-20'	63.6	228 J	74.2	9,700	28,400	4,100

DPT-30

Depth	1,1-DCA	1,1-DCE	*cis*-1,2-DCE	PCE	Toluene	Vinyl Chloride
5'-10'	235	1.7 J	698	0.63 J	1.1 J	140

Legend

- March 2022 DPT soil sample location
- October 2021 DPT soil sample location
- Oil pit location
- Approximate property boundary
- DCA Dichloroethane
- DCE Dichloroethene
- DPT Direct-push technology
- EPA U.S. Environmental Protection Agency
- J Estimated result
- PCE Tetrachloroethene
- SSL Soil screening level
- TCA Trichloroethane
- VOC Volatile organic compound

Source: Esri, ArcGIS Online, World Imagery, 2021

Notes:
- All results are in micrograms per kilogram (µg/kg).
- Red text indicates exceedances of EPA SSL.

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 12
Selected VOC Soil Sampling Results Map
2021 - 2022 – Oil Pit Area

TETRA TECH

Date: 5/25/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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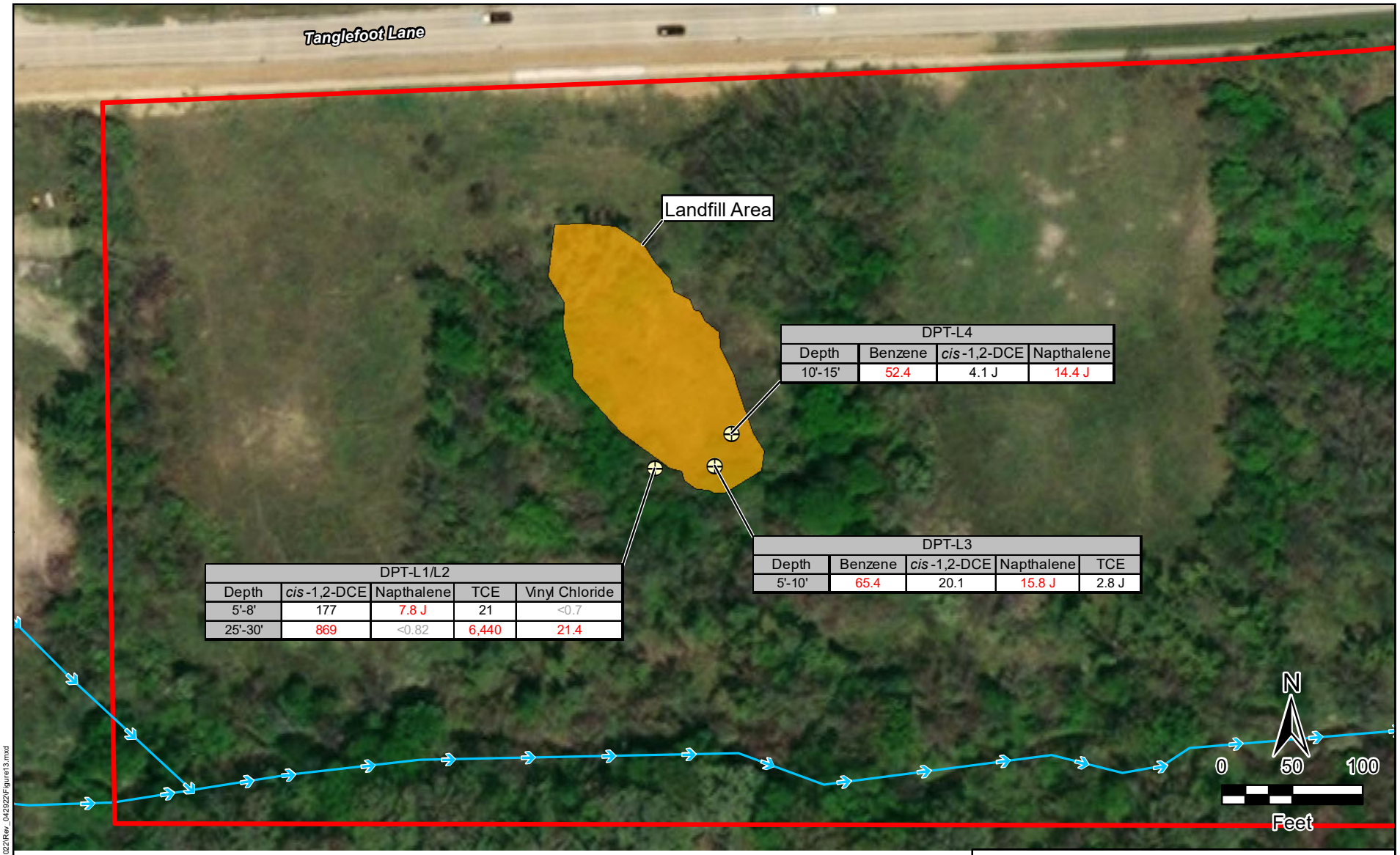

Legend

- Landfill DPT soil sample location
- Creek
- Approximate property boundary
- Estimated landfill area

DCE Dichloroethene
DPT Direct-push technology
EPA U.S. Environmental Protection Agency
J Estimated result
SSL Soil screening level
TCE Trichloroethene
VOC Volatile organic compound

Notes:
- All results are in micrograms per kilogram (µg/kg).
- Red text indicates exceedances of EPA SSL.

Source: Esri, ArcGIS Online, World Imagery, 2021

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 13
Selected VOC Soil Sampling Results Map
March 2022 - Landfill

TETRA TECH

Date: 5/2/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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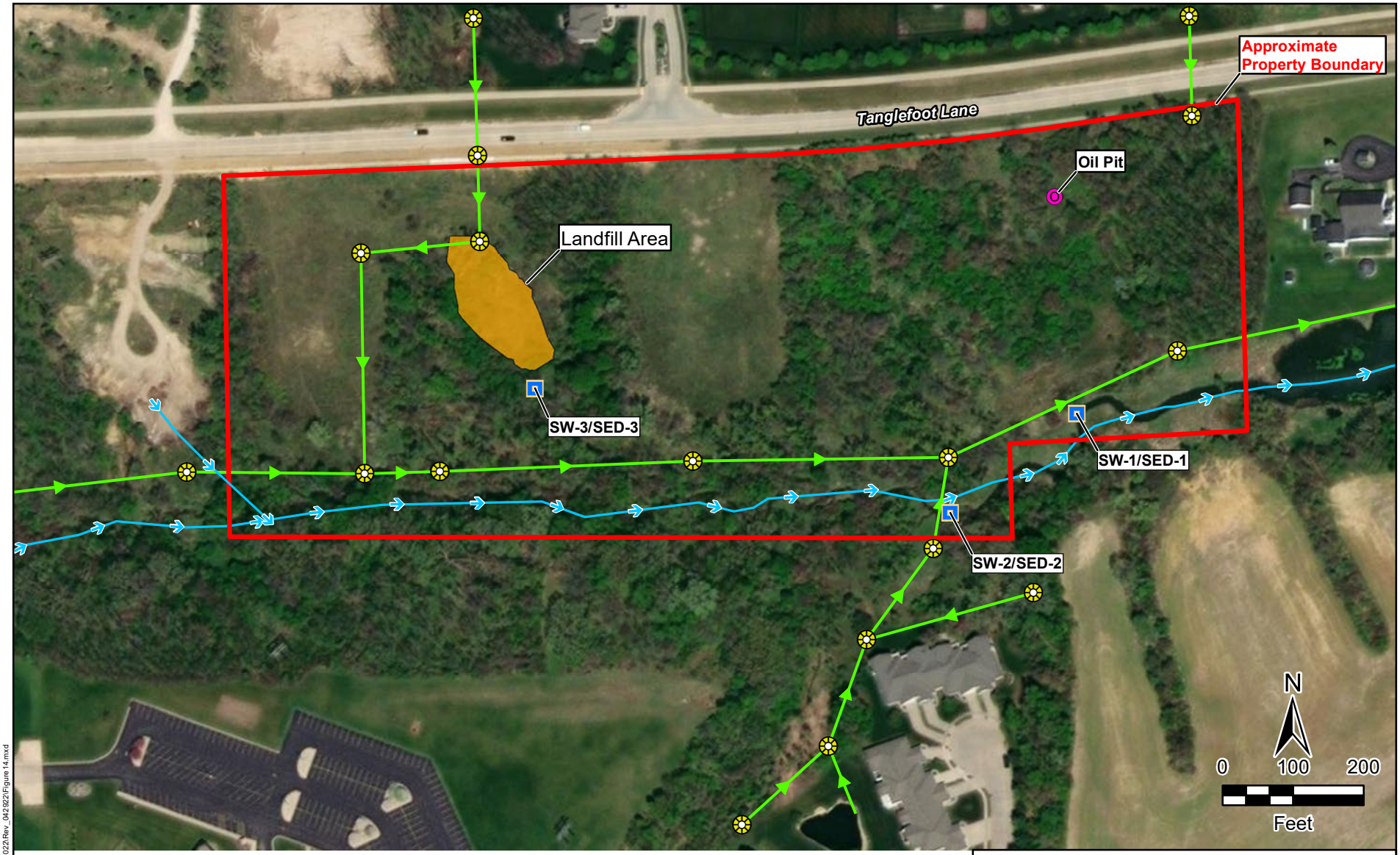

Legend

- March 2022 surface water and sediment sample location
- Oil pit location
- Sanitary sewer manhole
- Creek
- Sanitary sewer main
- Approximate property boundary
- Estimated landfill area

SED Sediment
SW Surface water

Source: Esri, ArcGIS Online, World Imagery, 2021

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 14
Surface Water and Sediment Sample Locations March 2022

TETRA TECH

Date: 5/9/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

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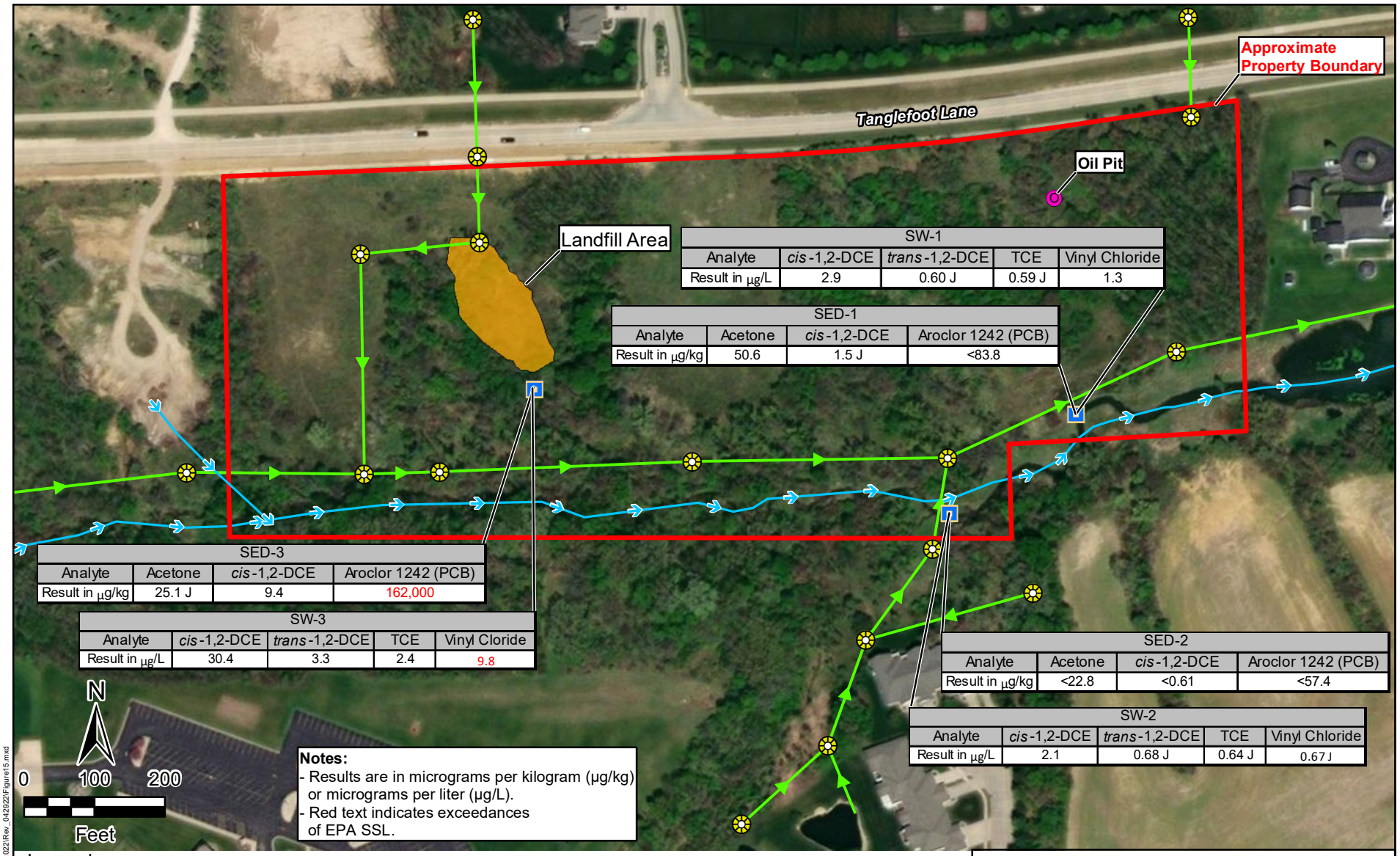


Legend

- March 2022 surface water and sediment sample location
- Oil pit location
- Sanitary sewer manhole
- Creek
- Sanitary sewer main
- Approximate property boundary
- Estimated landfill area

DCE Dichloroethene
EPA U.S. Environmental Protection Agency
J Estimated result
PCB Polychlorinated biphenyl
SSL Soil screening level
TCE Trichloroethene
VOC Volatile organic compound

Source: Esri, ArcGIS Online, World Imagery, 2021

Tanglefoot Lane Site
Bettendorf, Iowa

Figure 15
VOC Surface Water and Sediment Sampling Results Map March 2022

TETRA TECH

Date: 5/9/2022 Drawn By: Nick Wiederholt Project No: X903021F0035.000

X:\G\903021F0035\000\Projects\mxd\MIP_Survey_March2022\Rev_042922\Figure15.mxd

APPENDIX B

LOG BOOK

5/4/21 Tanglefoot Lane

1050	Collect	DPT-2 (3'-4')	8811-21
1055	Collect	DPT-2 (9'-10')	8811-22
1105	Collect	DPT-10 (4'-5')	8811-23
1110	Collect	DPT-10 (9'-10')	8811-24
1125	Collect	DPT-14 (4'-5')	8811-25
1130	Collect	DPT-14 (9'-10')	8811-26
1140	Collect	DPT-18 (4'-5')	8811-27
1145	Collect	DPT-18 (9'-10')	8811-28
1200	Collect	DPT-17 (4'-5')	8811-29
1205	Collect	DPT-17 (9'-10')	8811-30
1245	Collect	DPT-13 (4'-5')	8811-31
	Collect MS/MSD for 8811-31.		
1250	Collect	DPT-13 (9'-10')	8811-32
1310	Collect	DPT-6 (4'-5')	8811-33
1315	Collect	DPT-6 (9'-10')	8811-34
1330	Collect	DPT-9 (4'-5')	8811-35
1335	Collect	DPT-9 (9'-10')	8811-36
1340	Collect	DPT-5 (4'-5')	8811-37
1345	Collect	DPT-5 (9'-10')	8811-38
1355	Collect	DPT-1 (4'-5')	8811-39
1400	Collect	DPT-1 (9'-10')	8811-40
1410	Collect rinsate blank.		EB-1-101
	Geoprobe crew departs site.		
1415	Trip blank sample		~~8811-102-FB~~
1430	Depart from site.		
1500	Leave for Kansas City.		

Tanglefoot Lane MIP Survey 5/5/21

0700 STM. (b) (4) on-site. Followed shortly after by BGS.

0720 STM's and BGS walked the site and placed the first MIP location.

0745 BGS began unloading equipment and calibrated MIP.

0910 BGS completed calibration and moved MIP and DPT to first location (MIP-5). Began first log.

1130 BGS hit refusal at approximately 67 feet. Large Chlorinated, PID, PID hit at approximately 31 feet. Readings slowly deteriorated to around 44 feet before dropping off completely.

1115 BGS mobilized to MIP-16 location for deep reading up to 75 feet or refusal.

1230 MIP-16 refusal was reached at approximately 62 feet. Minor PID, XSD hits at 13–25 feet. BGS tripping pipe to mobilize to MIP-1 location to finish the cross section.

1335 After a brief lunch, BGS

6 TangleFoot Lane MIP Survey 10/25/21

began logging MIP-1 location.

1515 EPA A. Gieseke and B. Grant arrived onsite at approximately 1400. BGS crew reached depth of 75 feet and stopped Logging. No major PID, XSD hits. Electro conductivity probe may be going bad. BGS will troubleshoot.

1600 BGS finished troubleshooting EC tool the problem was found to be a loose wire. Moved slightly South to search for boundary. MIP-2 Location 41.560890, -90.473954 MIP-1 location 41.560568, -90.473812

1725 BGS reached refusal at approximately 72 feet. minor XSD, PID hit at 18 feet

1800 BGS finished packing up and left site.

(b) (4)

10/25/21

Tangletoot Lane MIP Survey 10/26/21 7

0730 (b) (4) arrived on-site with BGS and EPA members A. Gieseke and B. Grant. Discussion of where to begin resulted in the southwest corner.

0800 BGS crew began prepping location for MIP-3.

0830 (b) (4) Left site to purchase ground stakes to better mark locations of DPT and MIP

0920 BGS completed MIP-3 to a depth of 48 feet approximately. Location of MIP-3 41.559446, -90.473516 No major areas of concern at MIP-3

0935 (b) (4) Left site for Kansas City office.

0945 BGS moved to location just north of suspected oil pit. This location will be called MIP-4. Location of MIP-4 41.560515, -90.473559

1010 BGS began MIP-4

1110 BGS completed MIP-4 to a depth of approximately 48 feet Large PID, XSD hits between 20-30 feet.

1120 BGS moved to east side.

Tanglefoot Lane MIP Survey 10/26/21
Of Suspected plume for MIP-6 Location.

1240 BGS completed MIP-6 to a depth of approximately 42 feet. Breaking for Lunch. Location for MIP-6 41.560430, -90.473101

1310 BGS returned from Lunch, began MIP-7 at 41.560355, 90.473001

1410 BGS finished MIP-7 to a depth of approximately 41 feet. NO significant spikes for XSD, PID.

1425 BGS moved to MIP-8 Location and began logging. Location for MIP-8 41.560175, 90.473432

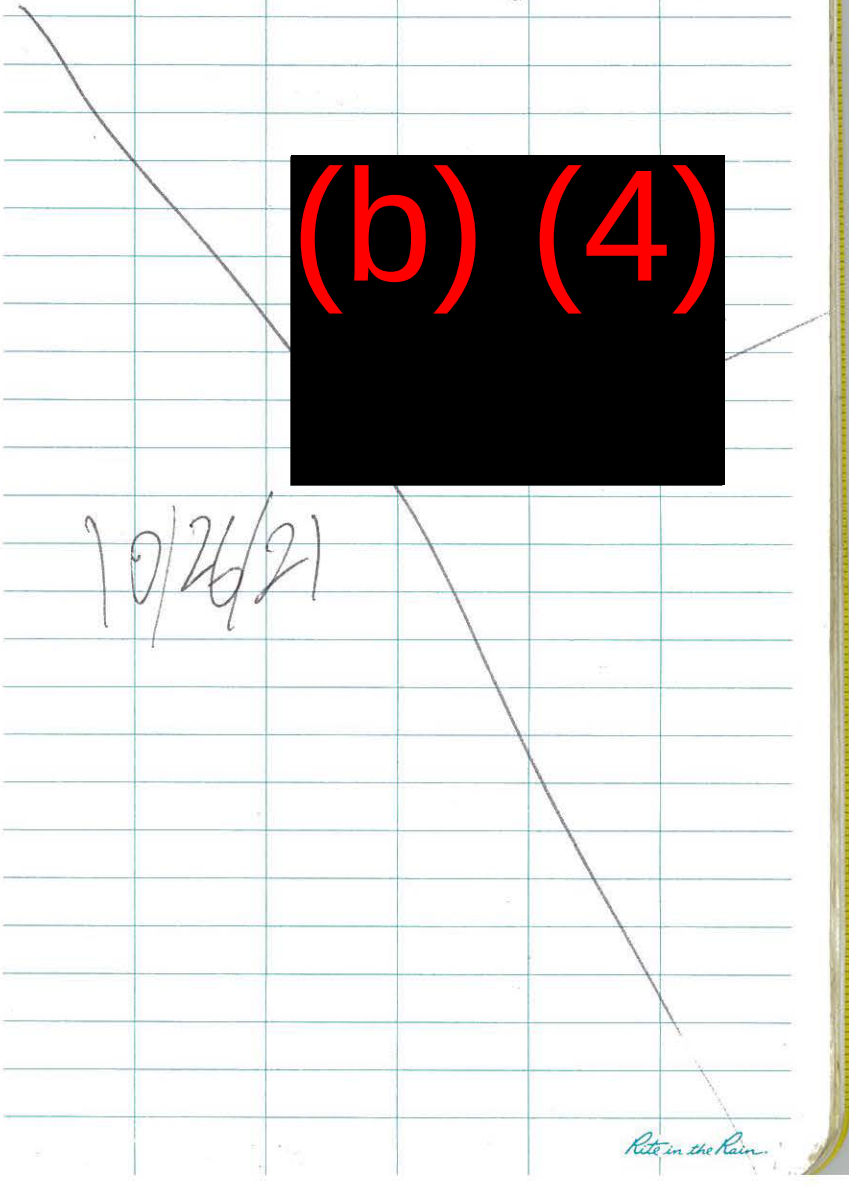
1610 BGS completed logging MIP-8 to a depth of approximately 71 feet. minor spikes at 25 feet

1635 BGS moved to location for ~~MIP-9. MIP-9 41.56000~~ 41.55960, 90.473342 MIP-9

1725 BGS completed logging MIP-9 to a depth of approximately 47 feet. Pulling pipe and prepping for the end of the day.

1750 BGS finished Packing up and left

Tanglefoot Lane MIP Survey 10/26/21
Site for the day



Tanglefoot Lane MIP Survey 10/27/21

0730 BTM (b) (4) arrived on site along with EPA Members A. Gibble and B. Grant as well as BGS crew. Performed Health and Safety meeting.

0800 Prep location for MIP-10

0820 Began Logging MIP-10 Location of MIP-10 41.560230, 90.473644

1010 BGS Completed Logging MIP-10 to a depth of 75 feet approximately. Large PID, XSD, FID spike at 31 feet and another small spike at approximately 66 feet on XSD

1100 BGS crew Located equipment to MIP-11 Location. BGS is trouble shooting FID after replacing membrane.

1150 BGS finished trouble shooting MIP and began Logging MIP-11. Location of MIP-11 41.560265, 90.473301

1315 BGS crew Completed Logging MIP-11 to a depth of approximately 62 feet. ~~Large~~ Significant spike at approximately 24 feet and small spike at approximately 57 feet Similar Locations as MIP-10

1335 BGS Located to north of Pit.

Tanglefoot Lane MIP Survey 10/27/21

for MIP-12. Location for MIP-12 41.560350, 90.473611

1425 Gauging of existing temporary well near MIP-11 showed depth to water at approximately 36.2 feet.

1445 BGS completed Logging MIP-12 to an approximate depth of 45 feet with significant spikes at 25 and 35 feet approximately.

1520 BGS relocated to South of pit to chase high hits found at MIP-10 and MIP-11. Location for MIP-13 41.560078, 90.473632

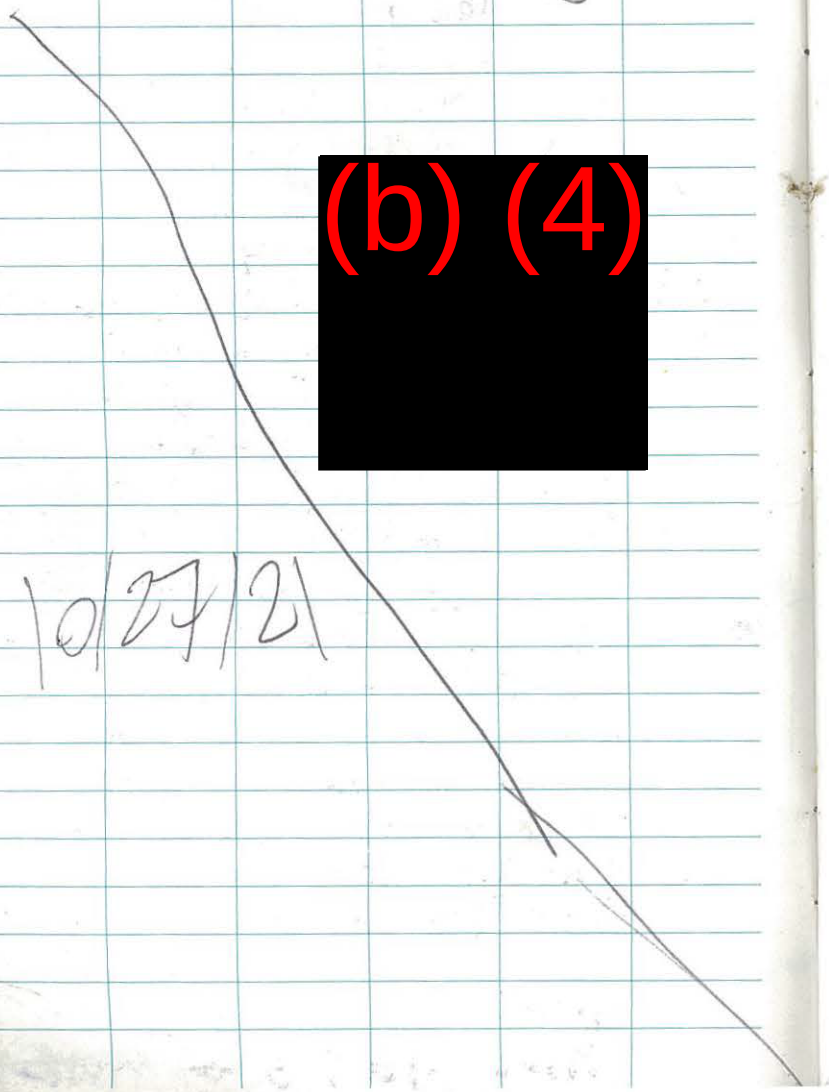
1620 BGS completed Logging MIP-13 to an approximate depth of 55 feet with a major PID hit at 20 feet and significant XSD and FID hits there also. Next location will be further South of MIP-13

1700 Began logging for MIP-14 GPS: 41.560122, -90.473722

1745 BGS completed Logging MIP-14 to a depth of approximately 47 feet Only minor hits between 5 and 15 feet. BGS Brandon Ring prepping

12 Tanglefoot Lane MIP Survey 10/27/21
for end of day

1805 BGS finished packing up equipment and left site for the day.



Tanglefoot Lane MIP Survey 10/28/21 13

0730 STM (b) (4) arrived on site along with EPA OSCs A. Gieseke and B. Grant, as well as BGS crew (b) (4) Conducted health and safety meeting. Plan is to move further South and chose high PID, XSD, FID from MIP-11 and MIP-13. Cold, wet, and rainy weather

0815 After calibration, BGS began Logging MIP-15 Located at 41.559662, 90.473654

0915 BGS Completed Logging MIP-15 to an approximate depth of 48 feet with a Large spike at 10 feet to 14 feet.

0950 BGS began Logging MIP-17 continuing to Chase high hits further South of pit. MIP-17 41.559752, 90.473712

1030 BGS Completed Logging MIP-17 to a depth of approximately 40 feet. Significant hits from surface from to 20 feet. Moving further south for next MIP Location

1105 BGS began Logging MIP-18 41.559662, -90.473702

1150 BGS completed Logging MIP-18 to a depth of 38 feet, Large spikes from 3 feet

Tanglefoot Lane MIP survey 10/28/21

1310 After a Lunch break, BGS began Logging MIP-19 west of MIP-17. MIP-19 location GPS: 41.559563, -90.473967

1340 BGS completed Logging MIP-19 to a depth of approximately 26 feet with significant spikes between 8 and 14 feet for PID and FID with XSD spike between 2 and 6 feet.

~~1605~~ BGS relocated to south of MIP-18
1405 to further chase PID, XSD, FID readings. Began Logging MIP-20. Located at MIP-20 GPS: TS 41.559475, -90.473665.

1630 BGS completed Logging MIP-20 to a depth of 24 feet approximately. Only FID spikes of significance. Possibly decomposing organics

~~1650~~ BGS relocated to MIP-21 Location
1450 South of MIP-9. Location of MIP-21 41.55978, -90.473529

1535 BGS completed Logging MIP-21 to a depth of approximately 30

Tanglefoot Lane MIP survey 10/28/21

feet. Spikes at lower depths near surface. preparing to sample soil. At request of EPA member A. Gieseke, soil will be homogenized over 5 foot intervals

1608 Begin core sampling at DPT-21 GPS: 41.559815, -90.473627
PID hits in ~~20~~ TS 15-20 feet core: TS 34 ppm at 15', 60 ppm at 16', 74 ppm at 18', and 46 ppm at 19'

1620 Collect DPT-21 (15'-20'). 9039-1
Collect MS/MSD.
PID hits at 20'-25': 43 ppm at 21', 36 ppm at 22', 21 ppm at 23', 8 ppm at 24', 5 ppm at 25'. Lighter color, silt at 23'.

1635 Collect DPT-21 (20'-25') 9039-2

1642 Begin core sampling at DPT-22 GPS: 41.559670, -90.473867.
PID readings at 10'-15' are: 19 ppm at 10', 47 ppm at 11', 65 ppm at 12', 67 ppm at 13', and 76 ppm at 14'.

1650 Collect DPT-22 (10'-15') 9039-3

Tanglefoot Lane MIP Survey 10/28/21

PID readings at 15'-20' are: 55 ppm at 15', 17 ppm at 16', 84 ppm at ~~17'~~ TB, 52 ppm at 18', ~~and~~ TB 64 ppm at 19', and 45 ppm at 20'.

1710 Collect DPT-22(15'-20') 9039-4

1730 BGS Located to center of Suspected oil pit for final MIP, MIP-22, 41.~~568~~ TB ~~9039~~ 559 TB 379, -90.~~473~~ 99

1805 BFS ~~Completed~~ Logging MIP-22 to a depth of approximately 42 feet with extreme spikes between 10 and 35 feet

1830 BGS finished packing up equipment and leaving site for the day.

Tanglefoot Lane MIP Survey 10/29/21

0730 Team arrives at the site. Conduct H+S meeting.

0815 At MIP-22 to collect soil cores DPT-23. PID readings are: 877 ppm at 10', 568 ppm at 11', 569 ppm at 12', 911 ppm at 13', 850 ppm at 14'.

0835 Collect DPT-~~22~~ TB 23 (10'-15'); 9039-5 PID readings at 15'-20' are: 325 ppm at 15', 378 ppm at 16', 993 ppm at 17', 1,298 ppm at 18', and ~~894~~ 994 ppm at 19'.

0845 Collect DPT-~~22~~ 23 (15'-20'); 9039-6

0900 Begin core sampling at DTP-~~22~~ 23 TB. Collocated with MIP-11. PID readings at 25'-30' are: 7~~0~~ TB ppm at 25', 18 ppm at 26', 3 ppm 27', 13 ppm at 28', and 7 ppm at 29'.

0925 Collect DPT-~~22~~ 23 (25'-30'); 9039-7 PID readings at TB 30'-35' are: 10 ppm at 30', 3 ppm at 31', 4 ppm at 32', 5 ppm at 33', and 1 ppm at 34'.

0945 Collect DPT-~~22~~ 23 (30'-35'); 9039-8

0955 Begin core sampling at ~~DPT-24~~ 5

Tanglefoot Lane MIP Survey 10/29/21

Collocated with MIP-13.

PID reading at 20'-25' are:
<1 ppm at 20', <1 ppm at 21', 2 ppm at 22', 7 ppm at 23', and 5 ppm 24'.

1015 Collect DPT-2A TB (20'-25'); 9039-9

PID readings at 25'-30' are:
150 ppm at 25', 23 ppm at 26', 9 ppm at 27', 7 ppm at 28', and 3 ppm at 29'.

1030 Collect DPT-2A TB (25'-30'); 9039-10

1040 Begin core sampling at DPT-26
Collocated with MIP-14.

PID readings at 5'-10' are:
<1 ppm at 5', <1 ppm at 6', <1 ppm at 7', 1 ppm at 8', and 12 ppm 9'.

1050 Collect DPT-26 (5'-10'); 9039-11

PID readings at 10'-15' are:
<1 ppm at 10', <1 ppm at 11', 22 ppm at 12', 21 ppm at 13', and 20 ppm at 14'.

1105 Collect DPT-26 (10'-15'); 9039-12

1115 Team packs up supplies.

1130 Collect field blank sample.
9039-123-FB

Tanglefoot Lane MIP Survey 10/29/21

1135 Collect trip blank 9039-124-FB

1140 Collect rinsate blank 9039-10i

1210 Leave site.

(b) (4)

Tanglefoot Lane MIP survey 03/07/22

0705 START Member (b) (4) arrived at Site. Awaiting arrival of BGS with Geoprobe. Cutting Lightly snowing with approximately 1/4 inch on the ground.

0710 BGS Arrived onsite with Geoprobe and MIP equipment. Snow is thicker but does not seem to be accumulating.

0745 BGS unloaded equipment and prepping to enter the site. Snow has subsided substantially. Still Light snow.

0815 BGS Located DPT and MIP at MIP-23 Location. BGS began calibrating MIP Device.

0905 Finished calibrating and began Logging MIP-23.

0950 Finished Logging MIP-23. EC seemed to be non functioning until 18 feet. Minor XSD (chlorinated) hits around 20 feet, similar to previous event for MIP-7. Pulling pipe and prepping to move to MIP-24, SE of MIP-16.

1025 BGS relocated to MIP-24 Location and began Logging. Walked with BGS crew MIKE to Southern portion of property to scout out Land

Tanglefoot Lane MIP Survey 03/07/22

for ease of access for Geoprobe

1110 Completed Logging MIP-24 to a total depth of 35 feet. Pulling pipe and prepping to move to MIP-30 Location.

1125 BGS relocated and began Logging MIP-30

1215 BGS Completed Logging MIP-30 to a total depth of 38 feet deep.

1245 BGS checked driven from Location of MIP-32 and began Logging MIP-32. BGS DPT operator took Lunch and MIP operator will take Lunch after. SMT. Kelly took Lunch at 1230.

1330 BGS completed Logging MIP-32 to a depth of 36 feet. Pulling pipe and preparing to move to MIP-31 Location.

1345 BGS began Logging MIP-31 at 41.55985317, -90.4734238 MSL = 195.37.

1420 BGS completed Logging MIP-31 to a depth of 30 feet. Pulling Pipe and preparing to move to MIP-35 Location.

Rite in the Rain.

Tanglefoot Lane MIP Survey 03/07/22

1440 BGS located to MIP-35 and began Logging. MIP-35 Located at [41.55985652, 90.47318466] MSL=194.23

1510 BGS completed logging MIP-35 to a depth of 25 feet. Deconing and pulling pipe to relocate to MIP-33.

1520 BGS located to MIP-33, approximately 2 feet North from manhole #2. Begin Logging. MIP-33 Located at [41.55983559, 90.47295702] MSL=196.93

1555 BGS completed Logging MIP-33 to a depth of 30 feet. Pulling pipe and preparing to move to next location at EPA's discretion. EPA arrived on site at approximately 1445.

1620 BGS relocated to MIP-34, Right on the eastern most portion of the property, and began Logging MIP-34 MIP-34 Located at [41.55988717, 90.47259418] MSL=194.2

1645 BGS completed Logging MIP-34 to a depth of 25 feet.

1655 BGS began Logging MIP-36. MIP-36 Located at [41.55974104, 90.47264748] MSL=190.02

1715 BGS completed Logging MIP-36

Tanglefoot Lane MIP Survey 03/07/22

to a depth of 26 feet. Pulling Pipe and prepping to end the day.

1730 EPA Left Site, DPT operator left Site BGS Lead and MIP operator is stuck and actively working to get his truck free. Stated that he wouldn't need help and that SM (b) (4) was OK to leave.

1745 Left Site.

(b) (4)

03/07/22

Tanglefoot Lane MIP Survey 03/08/22

0700 SM (b) (4) arrived Onsite. EPA and BGS already onsite.

0710 Safety meeting with all parties.

0730 BGS Warming up vehicles in preparation to begin logging and calibrating MIP tool.

0815 BGS began logging MIP-29. MIP-29 Located at 41.55987330 90.47361677 MSL = 195.7

0910 BGS completed logging MIP-29 to a depth of 45 feet. Pulling pipe and prepping to move slightly West.

0935 BGS located to MIP-25 and began logging. MIP-25 located at 41.55985700, 90.47375779. MSL=197.31
MIP-23: 41.56030344, 90.47313771 MSL = 205.51
MIP-24: 41.56004699, 90.47319143 MSL=199.99
MIP-30: 41.56000084, 90.47339490 MSL=200.29
MIP-32: 41.55994796, 90.47326335 MSL=198.56

1025 BGS completed logging MIP-25 to a depth of 40 feet. Pulling pipe and prepping to move to next Location.

1045 BGS Relocated to MIP-26. South of sewer line near creek. Bump testing

MIP tool before Logging.

1050 BGS began logging MIP-26 at 41.55964259, 90.47352949 MSL=193.89

1115 BGS completed logging MIP-26 to a depth of 26 feet. Pulling pipe and moving to MIP-27 further West but still on the south of the sewer Line.

1140 BGS began logging MIP-27 at 41.55951642, 90.47389407 MSL=193.74

1205 BGS completed logging MIP-27 to a depth of 22 feet. Pulling pipe and prepping to break for lunch.

1210 DPT operator and SM T. Kory took Lunch.

1220 BGS began logging MIP-28 at 41.55950117, 90.47415112 MSL=193.93

1250 BGS completed logging MIP-28 to a depth of 25 feet. Prepping to move to MIP-37 further South.

1315 Upon EPA's request, MIP-37 was moved southeast near creek. BGS began logging MIP-37 at 41.55936824, 90.47393139 MSL=191.12

1335 BGS completed logging MIP-37 to a depth of 72 feet.

Tanglefoot Lane MIP Survey 03/08/22

1400 BGS began Logging MIP-38, North of MIP-14 at 41.55977765, 90.47416220 MSL=195.3

1435 BGS completed Logging MIP-38 to a depth of 30 feet. Pulling pipe and moving to MIP-39 to the West of MIP-38.

1450 BGS began Logging MIP-39 at 41.55965338, 90.47423472 MSL=194.93

1520 BGS Completed Logging MIP-39 to a depth of 25 feet. Pulling pipe and moving to the next location.

1540 BGS began Logging MIP-40 at 41.55987909, 90.47412847 MSL=195.81 located North of MIP-38.

1610 BGS completed Logging MIP-40 to a depth of 25 feet.

1630 BGS located to MIP-41, North from MIP-15 and began Logging. 41.56003211, 90.47403933 MSL=198.28

1705 BGS completed Logging MIP-41 to a depth of 30 feet. Pulling pipe and prepping for the end of Day.

1710 Decision was made to do one more location. BGS located to MIP-42 Location, West of MIP-41

Tanglefoot Lane MIP Survey 03/08/22

BGS began Logging MIP-42 at 41.55997039, 90.47420615 MSL=198.94

1735 BGS completed Logging MIP-42 to a depth of 20 feet. Pulling pipe and prepping for end of Day.

1800 BGS and EPA left Site, finished for Day. T. Kaley departing.

[redacted]

03/08/22

Tanglefoot Lane MIP Survey 03/09/22

0705 SM (b) (4) onsite, BGS on site upon arrival.

0720 EPA arrived onsite

0725 Health and Safety Meeting with crew

0740 EPA Scouring Landfill area while START and BGS prepping for last MIP location on dirt section of property.

0815 Prepping to Log MIP-43 at 41.55998113, 90.47358671 MSL=197.51

0820 BGS began logging MIP-43

0900 BGS completed logging MIP-43 to a depth of 35 feet. Pulling pipe and prepping to mobilize to the Landfill area.

0950 BGS mobilized to the landfill area of the site. Lots of bottles, plastic, and tires on the ground. Upon EPA's request, all MIP locations in the landfill will be denoted with an "L" before the number starting with the number "L1". Walking to the south of the landfill, visible sheen can be seen on standing water

Tanglefoot Lane MIP Survey 03/09/22

coming off Landfill. Water appears to have a path towards the creek along the South of the property.

0955 BGS began logging MIP-L1 at 41.55993789, 90.47627693 MSL=197.53

1025 BGS completed logging MIP-L1 to a depth of 30 feet. Significant PID hits between 10-15 feet, but little to no Chlorinated readings.

1045 BGS began logging MIP-L2 at 41.55986822, 90.47634307 MSL=198.72 approximately 50 feet West of MIP-L1

1120 BGS completed logging MIP-L2 to a depth of 30 feet. Pulling pipe and moving further West.

1135 BGS began logging MIP-L3 at 41.55988503, 90.47641049 MSL=197.97

1210 BGS completed logging MIP-L3 to a depth of 36 feet. Pulling up prepare for lunch.

1310 After taking lunch, BGS is prepping to collect soil cores from the Landfill at MIP-L3 location. Highest PID reading at 5'-8' is 520 ppb VOC.

1330 Collect DPT-L1 at 5'

Rite in the Rain.

Tanglefoot Lane MIP Survey 3/09/22

Highest PID reading at 25'-30' bgs is 3,740 ppb VOC.

1340 Collect DPT-L2 at 25'-30' bgs

1350 BGS patch MIP-L3 and moved to ~~D~~ TG MIP-L2. PID reading in 5'-10' bgs as high as 730 ppb VOC.

1355 Collect DPT-L3 at 5'-10' bgs.

1400 BGS patches MIP-L2 and moves to MIP-L1. Highest PID reading of 410 ppb VOC at 10'-15' bgs.

1415 Collect DPT-L4 at 10'-15' bgs. BGS patches MIP-L1 and crew departs landfill area.

1445 At MIP-33 to collect soil from 5'-10' bgs. Highest PID reading of 370 ppb VOC at 5'-10' bgs.

1455 Collect DPT-27 at 5'-10' bgs.

1515 Collected DPT-28 at 10-15' bgs. highest PID reading was 34,000 ppb

1530 Collected DPT-29 at 15'-20' bgs highest PID was 34,000 ppb. SW-1 was collected at 1520 SW-1-FD collected at 1520

1550 Collected DPT-30 Highest PID reading was 490 ppb

DPT-27 Collected from MIP-33
DPT-28/29 collected from MIP-26
DPT-30 collected from MIP-27

1600 Collected DPT-31 from MIP-38 Highest PID reading was 72,000 ppb

1615 Collected DPT-32 10-15' bgs from MIP-38 Highest PID was 29,000 ppb

1620 Collected DPT-33 10'-15' from MIP-40 Highest PID was 1240 ppb

1630 BGS and EPA made decision to stop for the day. Will meet in the morning to finish soil sampling.

1700 All supplies packed and crew leaving for the day. T. Raley departing.

03/09/22

(b) (4)

Tanglefoot Lane MIP Survey 03/10/22

0705 SM (b) (4) arrival onsite. SM and BGS onsite at arrival. EPA having technical difficulties and running late.

0715 City Sewer personel arrive onsite to assist with sewer gas sampling

0720 Health and Safety meeting

0735 BGS ready to continue soil sampling.

0755 collected DPT-34 from 15'-20' at MIP-41 Highest PID was 300 ppb.

0810 collected DPT-35 from 10'-15' from MIP-25 Highest PID was 354 PPM.

0820 Collected DPT-36 from 15'-20' at MIP-25 Highest PID was 2ppm

0835 collected DPT-37 from 20'-25' at MIP-29 Highest PID was 500ppb

0850 Collected DPT-38 from 10'-15' at MIP-38

0900 BGS moving equipment to prepare for departure of the site.

0915 Collected Rinsate sample from DPT Shoe

0925 collected Field Blank sample

Tanglefoot Lane MIP Survey 03/10/22

0930 BGS and EPA departed Site. (b) (4) departed site for KC office.

1500 Arrive at KC Office

(b) (4)

03/10/22

APPENDIX C

PHOTOGRAPHIC LOG

Tanglefoot Lane
Bettendorf. Iowa

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows Below Ground Surface (BGS) crew members preparing for electrical conductivity (EC) and membrane interface probe (MIP) logging at MIP-5.	1
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: South	PHOTOGRAPHER	(b) (4)	10/25/2021

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows BGS crew members plugging boring hole at MIP-5.	2
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: South	PHOTOGRAPHER	(b) (4)	10/25/2021

Tanglefoot Lane
Bettendorf. Iowa

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows a BGS crew member conducting MIP/EC logging at MIP-1.	3
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Northwest	PHOTOGRAPHER	(b) (4)	10/25/2021

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows BGS crew members logging at MIP-16.	4
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: South	PHOTOGRAPHER	(b) (4)	10/25/2021

Tanglefoot Lane
Bettendorf. Iowa

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows the suspected oil pit location after clearance of brush.	5
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: West	PHOTOGRAPHER	(b) (4) [redacted]	10/26/2021

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows a BGS crew member and the U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC) logging at MIP-17, toward the south of the property.	6
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: East	PHOTOGRAPHER	(b) (4) [redacted]	10/27/2021

Tanglefoot Lane
Bettendorf. Iowa

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows BGS crew members and the EPA OSC logging at MIP-22, inside the suspected oil pit.	7
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: South	PHOTOGRAPHER	(b) (4) [redacted]	10/29/2021

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows suspected contamination from the 10'-15' soil boring interval of DPT-23, inside the suspected oil pit.	8
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NA	PHOTOGRAPHER	(b) (4) [redacted]	10/29/2021

Tanglefoot Lane
Bettendorf. Iowa

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows BGS crew member doing the initial calibration of the MIP tool before starting MIP logging.	9
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NA	PHOTOGRAPHER	(b) (4) [redacted]	03/07/2022

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows BGS beginning MIP logging activities during the March event.	10
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: South	PHOTOGRAPHER	(b) (4) [redacted]	03/07/2022

Tanglefoot Lane
Bettendorf. Iowa

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows BGS crew member deconning MIP tool after removal from boring.	11
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Southeast	PHOTOGRAPHER	(b) (4) [redacted]	03/07/2022

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows manhole #2 on the southeast side of the oil pit location.	12
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Southeast	PHOTOGRAPHER	(b) (4) [redacted]	03/07/2022

Tanglefoot Lane
Bettendorf. Iowa

TETRA TECH PROJECT NO. 103X903021F0035 Direction: West	DESCRIPTION	This photo shows BGS crew members sampling near manhole #2 and the distance from the manhole.	13
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	(b) (4) [redacted]	03/07/2022

TETRA TECH PROJECT NO. 103X903021F0035 Direction: North	DESCRIPTION	This photo shows an overview of the south slope of the oil pit location after brush had been cleared.	14
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
	PHOTOGRAPHER	(b) (4) [redacted]	03/08/2022

Tanglefoot Lane
Bettendorf. Iowa

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows an overview of the landfill location.	15
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: Northwest	PHOTOGRAPHER	(b) (4)	03/09/2022

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows debris and a channel coming out of the southern tip of the landfill location.	16
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: West	PHOTOGRAPHER	(b) (4)	03/09/2022

Tanglefoot Lane
Bettendorf. Iowa

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows a sheen on surface water near the landfill location.	17
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NA	PHOTOGRAPHER	(b) (4)	03/09/2022

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows a view of the southern edge of the landfill location. Debris can be seen embedded in the ground.	18
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: North	PHOTOGRAPHER	(b) (4)	03/09/2022

Tanglefoot Lane
Bettendorf. Iowa

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows BGS MIP logging at the landfill location.	19
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: South	PHOTOGRAPHER	(b) (4)	03/09/2022

TETRA TECH PROJECT NO. 103X903021F0035	DESCRIPTION	This photo shows a clear view of petroleum products within soil taken from DPT-35 at a depth of 10'-15'.	20
	CLIENT	U.S. Environmental Protection Agency Region 7	Date
Direction: NA	PHOTOGRAPHER	(b) (4)	03/10/2022

APPENDIX D

ANALYTICAL DATA AND CHAIN-OF-CUSTODY FORM FOR ANALYTICAL SERVICES REQUEST 9039

United States Environmental Protection Agency
Region 7
300 Minnesota Avenue
Kansas City, KS 66101

Date: 11/30/2021

Subject: Transmittal of Sample Analysis Results for ASR #: 9039

Project ID: AGB7C7

Project Description: Tanglefoot Lane

From: Margaret E.W. St. Germain, Chief
Laboratory Technology & Analysis Branch
Laboratory Services and Applied Sciences Division

To: Andrew Gieseke
SEMD/AERR/RREP

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. These results are based on samples as received at the Science and Technology Center. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please ensure that you file this electronic (.pdf only) transmittal in your records management system. The Regional Laboratory will now retain all of the original hardcopy documentation (e.g. COC[s] and the R7LIMS field sheet[s], etc.) according to our LSASD records management system.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the Online ASR Sample/Data Disposition and Customer Survey for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Online ASR Sample/Data Disposition and Customer Survey. It is critical that we receive your response in accordance to RCRA and the laboratory accreditation.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Project Manager: Andrew Gieseke **Org:** SEMD/AERR/RREP **Phone:** 913-551-7024

Project ID: AGB7C7 **QAPP Number:** 2021196

Project Desc: Tanglefoot Lane

Location: Bettendorf **State:** Iowa **Program:** Superfund

Site Name: Tanglefoot Lane - SITE EVALUATION/DISPOSITION **Site ID:** B7C7 **Site OU:** 00

Purpose: Site Cleanup Support **GPRA PRC:** 000DC6

MIP Survey. DPT soil and groundwater sampling for further characterization of Tanglefoot Lane site.

Submitted ASR dated 8/19/2021 noted that this ASR is not part of a litigation hold activity at this time.

GPRA/site code check ok per JE on 8/19/2021.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

__ = Field Sample
FB = Field Blank

Units: Specific units in which results are reported.

ug/kg = Micrograms per Kilogram
ug/L = Micrograms per Liter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank)= Values have been reviewed and found acceptable for use.
J = The identification of the analyte is acceptable; the reported value is an estimate.
UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.
U = The analyte was not detected at or above the reporting limit.

ASR Number: 9039 **Sample Information Summary** **11/30/2021**

Project ID: AGB7C7 **Project Desc:** Tanglefoot Lane

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1	__	Solid	DPT-21 (15-20)		10/28/2021	16:20			11/01/2021
2	__	Solid	DPT-21 (20-25)		10/28/2021	16:35			11/01/2021
3	__	Solid	DPT-22 (10-15)		10/28/2021	16:50			11/01/2021
4	__	Solid	DPT-22 (15-20)		10/28/2021	17:10			11/01/2021
5	__	Solid	DPT-23 (10-15)		10/29/2021	08:35			11/01/2021
6	__	Solid	DPT-23 (15-20)		10/29/2021	08:45			11/01/2021
7	__	Solid	DPT-24 (25-30)		10/29/2021	09:25			11/01/2021
8	__	Solid	DPT-24 (30-35)		10/29/2021	09:45			11/01/2021
9	__	Solid	DPT-25 (20-25)		10/29/2021	10:15			11/01/2021
10	__	Solid	DPT-25 (25-30)		10/29/2021	10:30			11/01/2021
11	__	Solid	DPT-26 (5-10)		10/29/2021	10:50			11/01/2021
12	__	Solid	DPT-26 (10-15)		10/29/2021	11:05			11/01/2021
101	__	Water	LDL VOA Equipment Rinsate Blank		10/29/2021	11:40			11/01/2021
123	FB	Water	LDL VOA Field Blank sample		10/29/2021	11:30			11/01/2021
124	FB	Water	LDL VOA Trip Blank sample		10/29/2021	11:35			11/01/2021

Analysis **Comments About Results For This Analysis**

1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Basis: Dry

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 11-__ 12-__

Comments:

To protect the integrity of the instrument, samples -5 and -6 were analyzed at a 1:10 dilution of a medium level VOA analysis only. Therefore, the reporting limits were raised by a factor of 500 times for samples -5 and -6.

Acetone was diluted below the RL in the 1:10 dilution of a medium level analysis of samples -1 and -4. 1,1-Dichloroethene was diluted below the RL in the 1:10 dilution of a medium level analysis of samples -2 and -4. m and/or p-Xylene was diluted below the RL in the 1:10 dilution of a medium level analysis of samples -1 and -9. 1,1-Dichloroethane was diluted below the RL in the 1:10 dilution of a medium level analysis of samples -3 and -9. 4-Methyl-2-Pentanone was diluted below the RL in the 1:10 dilution of a medium level analysis of samples -2 and -10. 1,1,1-Trichloroethane was diluted below the RL in the 1:10 dilution of a medium level analysis of sample -4. Trichloroethene was diluted below the RL in the medium level analysis of sample -7. Tetrachloroethene was diluted below the RL in the 1:10 dilution of a medium level analysis of sample -9.

Dichlorodifluoromethane was UJ-coded in samples -1 through -4, and -7 through -12. 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene were UJ-coded in samples -5 and -6. These analytes were not found in the samples at or above the reporting limit; however, the reporting limits are an estimate (UJ-coded) due to the initial instrument calibration curves not meeting linearity specifications. The actual reporting limit may be higher than the reported values.

1,1-Dichloroethene was J-coded in samples -1, -2, -3, -4, -8 and -10. trans-1,2-Dichloroethene was J-coded in samples -1, -2, -4, -8 and -10. 4-Methyl-2-Pentanone was J-coded in samples -1 and -9. Cyclohexane and Methylcyclohexane were J-coded in sample -9. Although the analytes in question have been positively identified in the samples, the quantitation is an estimate (J-coded) due to high recoveries of surrogate analytes in these samples. The actual concentrations for these analytes may be lower than the reported values.

Bromoform, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dibromo-3-Chloropropane, 1,2,3-Trichlorobenzene and 1,2,4-Trichlorobenzene were UJ-coded in samples -1, -2 and -9. 1,2-Dichlorobenzene was UJ-coded in sample -2. Isopropylbenzene was UJ-coded in samples -2 and -9. These analytes were not found in the samples at or above the reporting limits; however, the reporting limits are an estimate (UJ-coded) due to low internal standard response. The actual reporting limits for these analytes may be higher than the reported values.

Isopropylbenzene was J-coded in sample -1. 1,2-Dichloirobenzene was J-coded in samples

Analysis	Comments About Results For This Analysis

-1 and -9. Although the analytes in question have been positively identified in the samples, the quantitation is an estimate (J-coded) due to low internal standard responses. The actual concentration for these analytes may be lower than the reported values.

Trichloroethene was J-coded in sample -1. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to low recovery of this analyte in the laboratory matrix spike. The actual concentration for this analyte may be higher than the reported value.

Trichloroethene was J-coded in sample -1. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to poor precision obtained for this analyte in the laboratory matrix spike and matrix spike duplicate.

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 101-__ 123-FB 124-FB

Comments:

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	2100 J	14000	270	4200 J
Benzene	ug/kg	14	53	8.3	18
Bromochloromethane	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
Bromodichloromethane	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
Bromoform	ug/kg	4.9 UJ	5.0 UJ	8.3 U	4.7 U
Bromomethane	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
2-Butanone	ug/kg	9.8 U	10 U	17 U	9.3 U
Carbon Disulfide	ug/kg	5.4	11	8.3 U	7.2
Carbon Tetrachloride	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
Chlorobenzene	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
Chloroethane	ug/kg	21	7.9	8.3 U	4.7 U
Chloroform	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
Chloromethane	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
Cyclohexane	ug/kg	23	5.0 U	26	7.6
1,2-Dibromo-3-Chloropropane	ug/kg	4.9 UJ	5.0 UJ	8.3 U	4.7 U
Dibromochloromethane	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
1,2-Dibromoethane	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
1,2-Dichlorobenzene	ug/kg	25 J	5.0 UJ	100	4.7 U
1,3-Dichlorobenzene	ug/kg	4.9 UJ	5.0 UJ	8.3 U	4.7 U
1,4-Dichlorobenzene	ug/kg	4.9 UJ	5.0 UJ	8.3 U	4.7 U
Dichlorodifluoromethane	ug/kg	4.9 UJ	5.0 UJ	8.3 UJ	4.7 UJ
1,1-Dichloroethane	ug/kg	5400	4000	450 J	3500
1,2-Dichloroethane	ug/kg	20	26	12	26
1,1-Dichloroethene	ug/kg	100 J	200 J	160 J	200 J
cis-1,2-Dichloroethene	ug/kg	110000	27000	19000	45000
trans-1,2-Dichloroethene	ug/kg	41 J	29 J	8.3 U	49 J
1,2-Dichloropropane	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
cis-1,3-Dichloropropene	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
trans-1,3-Dichloropropene	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
Ethyl Benzene	ug/kg	81	5.0 U	70	33
2-Hexanone	ug/kg	9.8 U	10 U	17 U	9.3 U
Isopropylbenzene	ug/kg	5.2 J	5.0 UJ	14	4.7 U
Methyl Acetate	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
Methyl tert-butyl ether	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
Methylcyclohexane	ug/kg	4.9 U	5.0 U	35	4.7 U
Methylene Chloride	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
4-Methyl-2-Pentanone	ug/kg	230 J	430 J	34	260
Styrene	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
1,1,2,2-Tetrachloroethane	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
Tetrachloroethene	ug/kg	170	5.0 U	57	36
Toluene	ug/kg	120000	36000	27000	60000
1,2,3-Trichlorobenzene	ug/kg	4.9 UJ	5.0 UJ	8.3 U	4.7 U
1,2,4-Trichlorobenzene	ug/kg	4.9 UJ	5.0 UJ	8.3 U	4.7 U
1,1,1-Trichloroethane	ug/kg	170	5.0 U	6300	480 J
1,1,2-Trichloroethane	ug/kg	4.9 U	5.0 U	8.3 U	10

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
Trichloroethene	ug/kg	37000 J	89000	80	33
Trichlorofluoromethane	ug/kg	4.9 U	5.0 U	8.3 U	4.7 U
1,1,2-Trichlorotrifluoroethane	ug/kg	5400	5.0 U	170	150
Vinyl Chloride	ug/kg	170	38	170	34
m and/or p-Xylene	ug/kg	300 J	5.0 U	280	120
o-Xylene	ug/kg	100	5.0 U	89	43

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	5300 U	5300 U	2000	280
Benzene	ug/kg	2600 U	2600 U	4.6 U	23
Bromochloromethane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Bromodichloromethane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Bromoform	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Bromomethane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
2-Butanone	ug/kg	5300 U	5300 U	9.2 U	18 U
Carbon Disulfide	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Carbon Tetrachloride	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Chlorobenzene	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Chloroethane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Chloroform	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Chloromethane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Cyclohexane	ug/kg	12000	2600 U	4.6 U	9.2 U
1,2-Dibromo-3-Chloropropane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Dibromochloromethane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
1,2-Dibromoethane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
1,2-Dichlorobenzene	ug/kg	2600 U	2600 U	7.6	9.2 U
1,3-Dichlorobenzene	ug/kg	2600 U	2600 U	4.6 U	9.2 U
1,4-Dichlorobenzene	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Dichlorodifluoromethane	ug/kg	2600 U	2600 U	4.6 UJ	9.2 UJ
1,1-Dichloroethane	ug/kg	2600 U	2600 U	67	2900
1,2-Dichloroethane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
1,1-Dichloroethene	ug/kg	3200	2600 U	29	150 J
cis-1,2-Dichloroethene	ug/kg	39000	9900	7700	34000
trans-1,2-Dichloroethene	ug/kg	2600 U	2600 U	5.1	44 J
1,2-Dichloropropane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
cis-1,3-Dichloropropene	ug/kg	2600 U	2600 U	4.6 U	9.2 U
trans-1,3-Dichloropropene	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Ethyl Benzene	ug/kg	15000	2800	12	11
2-Hexanone	ug/kg	5300 U	5300 U	9.2 U	18 U
Isopropylbenzene	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Methyl Acetate	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Methyl tert-butyl ether	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Methylcyclohexane	ug/kg	12000	2600 U	4.6 U	9.2 U
Methylene Chloride	ug/kg	2600 U	2600 U	4.6 U	9.2 U
4-Methyl-2-Pentanone	ug/kg	5300 U	5300 U	68	87
Styrene	ug/kg	2600 U	2600 U	4.6 U	9.2 U
1,1,2,2-Tetrachloroethane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
Tetrachloroethene	ug/kg	74000	20000	17	9.2 U
Toluene	ug/kg	3800000	740000	5800	23000
1,2,3-Trichlorobenzene	ug/kg	2600 UJ	2600 UJ	4.6 U	9.2 U
1,2,4-Trichlorobenzene	ug/kg	2600 UJ	2600 UJ	4.6 U	9.2 U
1,1,1-Trichloroethane	ug/kg	740000	190000	1200	130
1,1,2-Trichloroethane	ug/kg	2600 U	2600 U	4.6 U	9.2 U

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
Trichloroethene	ug/kg	3600000	810000	450 J	280
Trichlorofluoromethane	ug/kg	2600 U	2600 U	4.6 U	9.2 U
1,1,2-Trichlorotrifluoroethane	ug/kg	2900	2700	45	24
Vinyl Chloride	ug/kg	2600 U	2600 U	4.6 U	9.2 U
m and/or p-Xylene	ug/kg	30000	6000	45	30
o-Xylene	ug/kg	12000	2600 U	16	11

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 VOC's in Soil at Low Levels by GC/MS Closed-System Purge-and-Trap					
Acetone	ug/kg	260	13000	20	110
Benzene	ug/kg	5.8	15	4.9 U	4.3 U
Bromochloromethane	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
Bromodichloromethane	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
Bromoform	ug/kg	5.5 UJ	4.2 U	4.9 U	4.3 U
Bromomethane	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
2-Butanone	ug/kg	11 U	8.3 U	9.8 U	8.7 U
Carbon Disulfide	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
Carbon Tetrachloride	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
Chlorobenzene	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
Chloroethane	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
Chloroform	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
Chloromethane	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
Cyclohexane	ug/kg	56 J	9.4	4.9 U	4.3 U
1,2-Dibromo-3-Chloropropane	ug/kg	5.5 UJ	4.2 U	4.9 U	4.3 U
Dibromochloromethane	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
1,2-Dibromoethane	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
1,2-Dichlorobenzene	ug/kg	30 J	4.2 U	4.9 U	4.3 U
1,3-Dichlorobenzene	ug/kg	5.5 UJ	4.2 U	4.9 U	4.3 U
1,4-Dichlorobenzene	ug/kg	5.5 UJ	4.2 U	4.9 U	4.3 U
Dichlorodifluoromethane	ug/kg	5.5 UJ	4.2 UJ	4.9 UJ	4.3 UJ
1,1-Dichloroethane	ug/kg	290 J	3100	4.9 U	4.3 U
1,2-Dichloroethane	ug/kg	5.5 U	18	4.9 U	4.3 U
1,1-Dichloroethene	ug/kg	30	75 J	4.9 U	17
cis-1,2-Dichloroethene	ug/kg	9200	47000	64	880
trans-1,2-Dichloroethene	ug/kg	7.7	40 J	4.9 U	4.3 U
1,2-Dichloropropane	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
cis-1,3-Dichloropropene	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
trans-1,3-Dichloropropene	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
Ethyl Benzene	ug/kg	120	4.4	4.9 U	4.3 U
2-Hexanone	ug/kg	11 U	8.3 U	9.8 U	8.7 U
Isopropylbenzene	ug/kg	5.5 UJ	4.2 U	4.9 U	4.3 U
Methyl Acetate	ug/kg	5.5 U	4.2 U	4.9 U	6.7
Methyl tert-butyl ether	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
Methylcyclohexane	ug/kg	12 J	32	4.9 U	4.3 U
Methylene Chloride	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
4-Methyl-2-Pentanone	ug/kg	41 J	350 J	9.8 U	8.7 U
Styrene	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
1,1,2,2-Tetrachloroethane	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
Tetrachloroethene	ug/kg	260 J	4.2 U	4.9 U	5.1
Toluene	ug/kg	21000	28000	4.9 U	4.3 U
1,2,3-Trichlorobenzene	ug/kg	5.5 UJ	4.2 U	4.9 U	4.3 U
1,2,4-Trichlorobenzene	ug/kg	5.5 UJ	4.2 U	4.9 U	4.3 U
1,1,1-Trichloroethane	ug/kg	100	4.9	28	1100
1,1,2-Trichloroethane	ug/kg	5.5 U	9.4	4.9 U	4.3 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
Trichloroethene	ug/kg	34	4.2 U	62	1700
Trichlorofluoromethane	ug/kg	5.5 U	4.2 U	4.9 U	4.3 U
1,1,2-Trichlorotrifluoroethane	ug/kg	170	6.5	4.9 U	4.4
Vinyl Chloride	ug/kg	18	5.3	4.9 U	4.3 U
m and/or p-Xylene	ug/kg	250 J	12	4.9 U	4.3 U
o-Xylene	ug/kg	150	5.4	4.9 U	4.3 U

Analysis/ Analyte	Units	101-__	123-FB	124-FB
1 VOCs in Water by GC/MS for Low Detection Limits				
Acetone	ug/L	5.8	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	101-__	123-FB	124-FB
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

EPA PROJECT MANAGER (Print)	SITE OR SAMPLING EVENT	DATE OF SAMPLE COLLECTION(S)	SHEET
Andrew Gieseke	Tanglefoot Lane MIP Survey	10 (MONTH) 28-29 (DAY) 2021 (YEAR)	1 of 1

CONTENTS OF SHIPMENT

VOA set: nr11/1/2021

ASR AND SAMPLE NUMBER	TYPE OF CONTAINER: 1 L PLASTIC BOTTLE	CANISTER	3vials&tube	BOTTLE	VOA SET (3 VIALS EA)	SAMPLED MEDIA: WATER	SO LID	HAZ WASTE	AIR	OTHER	RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBER(S) OF CONTAINERS PER SAMPLE NUMBER										
9039-1			3				✓				MS/MSD
9039-2			1				✓				
9039-3			1				✓				
9039-4			1				✓				
9039-5			1				✓				
9039-6			1				✓				No QC=MS/MSD will be provided on
9039-7			1				✓				the water samples since no field water
9039-8			1				✓				LDL VOA samples were collected with
9039-9			1				✓				extra volume for QC=MS/MSD. EPA PM(AG)/
9039-10			1				✓				sampler notified of this issue via email dated
9039-11			1				✓				11/1/2021. nr11/1/2021
9039-12			1				✓				
9039-101					1	✓					Rinsate Blank
9039-123-FB					1	✓					Field Blank
9039-124-FB					1	✓					Trip Blank
											ASR Complete
											NR marked eCOC.pdf below noting Unsealed
											since not marked by sampler. nr11/1/2021
											Cooler hand-delivered to the STC with a
											temp. range of 0-1degC. nr11/1/2021

DESCRIPTION OF SHIPMENT

17 CONTAINER(S) CONSISTING OF _____ CRATE(S)

1 ICE CHEST(S): OTHER _____

MODE OF SHIPMENT

☐ COMMERCIAL CARRIER _____

☑ SAMPLER CONVEYED _____ (SHIPPING AIRBILL NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (PM/SAMPLER)	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
(b) (4)	NICOLE ROBLEZ Digitally signed by NICOLE ROBLEZ Date: 2021.11.01 10:50:19 -05'00'	STC Analyses
☐ SEALED ☐ UNSEALED ☑	☐ SEALED ☑ UNSEALED	
RELINQUISHED BY (PM/SAMPLER)	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED	☐ SEALED ☐ UNSEALED	
RELINQUISHED BY (PM/SAMPLER)	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED	☐ SEALED ☐ UNSEALED	
RELINQUISHED BY (PM/SAMPLER)	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED	☐ SEALED ☐ UNSEALED	

7-EPA-6282 (REV 4/17)

APPENDIX E

ANALYTICAL DATA, CHAIN-OF-CUSTODY FORM, AND DATA VALIDATION FOR PACE ANALYTICAL PROJECT NUMBER 60395120

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

March 31, 2022

Emily Fisher
TETRA TECH EMI
415 Oak
Kansas City, MO 64106

RE: Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Dear Emily Fisher:

Enclosed are the analytical results for sample(s) received by the laboratory on March 11, 2022. 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 Analytical Services - Kansas City

Revised Report REV_1

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

Sincerely,

Nolie Wood
nolie.wood@pacelabs.com
1(913)563-1401
Project Manager

Enclosures

cc: Stephanie Caples, Tetra Tech EMI

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Pace Analytical Services Kansas
9608 Loiret Boulevard, Lenexa, KS 66219
Missouri Inorganic Drinking Water Certification #: 10090
Arkansas Drinking Water
Arkansas Certification #: 20-020-0
Arkansas Drinking Water
Illinois Certification #: 2000302021-3
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212020-2
Oklahoma Certification #: 9205/9935
Florida: Cert E871149 SEKS WET
Texas Certification #: T104704407-19-12
Utah Certification #: KS000212019-9
Illinois Certification #: 004592
Kansas Field Laboratory Accreditation: # E-92587
Missouri SEKS Micro Certification: 10070

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60395120001	DPT-L1	Solid	03/09/22 13:30	03/11/22 11:15
60395120002	DPT-L2	Solid	03/09/22 13:40	03/11/22 11:15
60395120003	DPT-L3	Solid	03/09/22 13:55	03/11/22 11:15
60395120004	DPT-L4	Solid	03/09/22 14:15	03/11/22 11:15
60395120005	DPT-27	Solid	03/09/22 14:55	03/11/22 11:15
60395120006	DPT-28	Solid	03/09/22 15:15	03/11/22 11:15
60395120007	SW-1	Water	03/09/22 15:20	03/11/22 11:15
60395120008	SW-1-FD	Water	03/09/22 15:20	03/11/22 11:15
60395120009	DPT-29	Solid	03/09/22 15:30	03/11/22 11:15
60395120010	DPT-30	Solid	03/09/22 15:50	03/11/22 11:15
60395120011	SED-1	Solid	03/09/22 15:40	03/11/22 11:15
60395120012	SW-2	Water	03/09/22 15:50	03/11/22 11:15
60395120013	DPT-31	Solid	03/09/22 16:00	03/11/22 11:15
60395120014	SED-2	Solid	03/09/22 16:05	03/11/22 11:15
60395120015	DPT-32	Solid	03/09/22 16:15	03/11/22 11:15
60395120016	DPT-33	Solid	03/09/22 16:20	03/11/22 11:15
60395120017	SW-3	Water	03/09/22 16:35	03/11/22 11:15
60395120018	SED-3	Solid	03/09/22 16:40	03/11/22 11:15
60395120019	DPT-34	Solid	03/10/22 07:55	03/11/22 11:15
60395120020	DPT-35	Solid	03/10/22 08:10	03/11/22 11:15
60395120021	DPT-36	Solid	03/10/22 08:20	03/11/22 11:15
60395120022	DPT-37	Solid	03/10/22 08:35	03/11/22 11:15
60395120023	DPT-38	Solid	03/10/22 08:50	03/11/22 11:15
60395120024	RINSATE	Water	03/10/22 09:15	03/11/22 11:15
60395120025	FIELD BLANK	Water	03/10/22 09:25	03/11/22 11:15
60395120026	TB-1	Water	03/11/22 10:00	03/11/22 11:15
60395120027	TB-2	Solid	03/11/22 10:05	03/11/22 11:15
60395120028	TB-3	Solid	03/11/22 10:10	03/11/22 11:15

Pace Analytical Services, LLC
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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60395120001	DPT-L1	EPA 8082	AJA1	8	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120002	DPT-L2	EPA 8082	AJA1	8	PASI-K
		EPA 8260B	RAD	65	PASI-K
		EPA 8260B	RAD	5	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120003	DPT-L3	EPA 8082	AJA1	8	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120004	DPT-L4	EPA 8082	AJA1	8	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120005	DPT-27	EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120006	DPT-28	EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120007	SW-1	EPA 5030B/8260	CSC	69	PASI-K
60395120008	SW-1-FD	EPA 5030B/8260	CSC	69	PASI-K
60395120009	DPT-29	EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120010	DPT-30	EPA 8260B	RAD	66	PASI-K
		EPA 8260B	RAD	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120011	SED-1	EPA 8082	AJA1	8	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120012	SW-2	EPA 5030B/8260	CSC	69	PASI-K
60395120013	DPT-31	EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120014	SED-2	EPA 8082	AJA1	8	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120015	DPT-32	EPA 8260B	RAD	66	PASI-K
		EPA 8260B	RAD	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120016	DPT-33	EPA 8260B	RAD	67	PASI-K

Pace Analytical Services, LLC
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Lenexa, KS 66219
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SAMPLE ANALYTE COUNT

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B	RAD	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120017	**SW-3**	EPA 5030B/8260	CSC	69	PASI-K
60395120018	**SED-3**	EPA 8082	AJA1	8	PASI-K
		EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120019	**DPT-34**	EPA 8260B	RAD	67	PASI-K
		EPA 8260B	RAD	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120020	**DPT-35**	EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120021	**DPT-36**	EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120022	**DPT-37**	EPA 8260B	RAD	68	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120023	**DPT-38**	EPA 8260B	RAD	67	PASI-K
		EPA 8260B	RAD	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
60395120024	**RINSATE**	EPA 5030B/8260	CSC	69	PASI-K
60395120025	**FIELD BLANK**	EPA 5030B/8260	CSC	69	PASI-K
60395120026	**TB-1**	EPA 5030B/8260	CSC	69	PASI-K
60395120027	**TB-2**	EPA 8260B	RAD	68	PASI-K
60395120028	**TB-3**	EPA 8260B	RAD	68	PASI-K

PASI-K = Pace Analytical Services - Kansas City

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-L1 **Lab ID: 60395120001** Collected: 03/09/22 13:30 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW	Analytical Method: EPA 8082 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
PCB-1016 (Aroclor 1016)	**<20.2**	ug/kg	81.1	1	03/24/22 14:24	03/25/22 14:27	12674-11-2	
PCB-1221 (Aroclor 1221)	**<19.3**	ug/kg	81.1	1	03/24/22 14:24	03/25/22 14:27	11104-28-2	
PCB-1232 (Aroclor 1232)	**<8.8**	ug/kg	81.1	1	03/24/22 14:24	03/25/22 14:27	11141-16-5	
PCB-1242 (Aroclor 1242)	**<19.5**	ug/kg	81.1	1	03/24/22 14:24	03/25/22 14:27	53469-21-9	
PCB-1248 (Aroclor 1248)	**<5.4**	ug/kg	81.1	1	03/24/22 14:24	03/25/22 14:27	12672-29-6	
PCB-1254 (Aroclor 1254)	**<7.6**	ug/kg	81.1	1	03/24/22 14:24	03/25/22 14:27	11097-69-1	
PCB-1260 (Aroclor 1260)	**<16.0**	ug/kg	81.1	1	03/24/22 14:24	03/25/22 14:27	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	73	%	35-120	1	03/24/22 14:24	03/25/22 14:27	2051-24-3	
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**<17.1**	ug/kg	21.1	1	03/19/22 14:51	03/19/22 19:39	67-64-1	
Benzene	**0.66J**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	71-43-2	
Bromobenzene	**<0.99**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	108-86-1	
Bromochloromethane	**<0.63**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	74-97-5	
Bromodichloromethane	**<0.63**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	75-27-4	
Bromoform	**<0.61**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	75-25-2	
Bromomethane	**<3.1**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	74-83-9	
2-Butanone (MEK)	**<3.6**	ug/kg	10.6	1	03/19/22 14:51	03/19/22 19:39	78-93-3	
n-Butylbenzene	**<0.69**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	104-51-8	
sec-Butylbenzene	**<0.77**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	135-98-8	
tert-Butylbenzene	**<0.93**	ug/kg	26.4	1	03/19/22 14:51	03/19/22 19:39	98-06-6	
Carbon disulfide	**<0.68**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	75-15-0	
Carbon tetrachloride	**<0.91**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	56-23-5	
Chlorobenzene	**<0.66**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	108-90-7	
Chloroethane	**<1.6**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	75-00-3	
Chloroform	**<0.52**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	67-66-3	
Chloromethane	**<0.84**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	74-87-3	
2-Chlorotoluene	**<0.77**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	95-49-8	
4-Chlorotoluene	**<0.63**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.9**	ug/kg	10.6	1	03/19/22 14:51	03/19/22 19:39	96-12-8	
Dibromochloromethane	**<0.68**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	124-48-1	
1,2-Dibromoethane (EDB)	**<0.57**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	106-93-4	
Dibromomethane	**<0.63**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	74-95-3	
1,2-Dichlorobenzene	**<0.66**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	95-50-1	
1,3-Dichlorobenzene	**<0.76**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	541-73-1	
1,4-Dichlorobenzene	**<0.86**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	106-46-7	
Dichlorodifluoromethane	**<1.2**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	75-71-8	
1,1-Dichloroethane	**<0.41**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	75-34-3	
1,2-Dichloroethane	**<0.42**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	107-06-2	
1,2-Dichloroethene (Total)	**179**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	540-59-0	
1,1-Dichloroethene	**<0.68**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	75-35-4	
cis-1,2-Dichloroethene	**177**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	156-59-2	
trans-1,2-Dichloroethene	**1.9J**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-L1 **Lab ID: 60395120001** Collected: 03/09/22 13:30 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030							
	Pace Analytical Services - Kansas City							
1,2-Dichloropropane	**<1.0**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	78-87-5	
1,3-Dichloropropane	**<0.73**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	594-20-7	
1,1-Dichloropropene	**<0.95**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	563-58-6	
cis-1,3-Dichloropropene	**<0.56**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.48**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	10061-02-6	
Ethylbenzene	**0.95J**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	100-41-4	
Hexachloro-1,3-butadiene	**<0.90**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	87-68-3	
2-Hexanone	**<2.6**	ug/kg	21.1	1	03/19/22 14:51	03/19/22 19:39	591-78-6	
Isopropylbenzene (Cumene)	**<0.60**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	98-82-8	
p-Isopropyltoluene	**<0.73**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	99-87-6	
Methylene Chloride	**<2.9**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.2**	ug/kg	10.6	1	03/19/22 14:51	03/19/22 19:39	108-10-1	
Methyl-tert-butyl ether	**<0.51**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	1634-04-4	
Naphthalene	**7.8J**	ug/kg	10.6	1	03/19/22 14:51	03/19/22 19:39	91-20-3	
n-Propylbenzene	**<0.85**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	103-65-1	
Styrene	**<0.62**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.1**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.1**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	79-34-5	
Tetrachloroethene	**<0.44**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	127-18-4	
Toluene	**1.4J**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	108-88-3	
1,2,3-Trichlorobenzene	**4.2J**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	87-61-6	B
1,2,4-Trichlorobenzene	**5.1J**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	120-82-1	B
1,1,1-Trichloroethane	**<0.79**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	71-55-6	
1,1,2-Trichloroethane	**<0.67**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	79-00-5	
Trichloroethene	**21.2**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	79-01-6	
Trichlorofluoromethane	**<0.65**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	75-69-4	
1,2,3-Trichloropropane	**<2.3**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	96-18-4	
1,2,4-Trimethylbenzene	**<0.71**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.66**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	108-67-8	
Vinyl chloride	**<0.70**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	75-01-4	
Xylene (Total)	**<1.2**	ug/kg	5.3	1	03/19/22 14:51	03/19/22 19:39	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	80-120	1	03/19/22 14:51	03/19/22 19:39	2037-26-5	
4-Bromofluorobenzene (S)	108	%	80-120	1	03/19/22 14:51	03/19/22 19:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	03/19/22 14:51	03/19/22 19:39	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**19.2**	%	0.50	1		03/16/22 13:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-L2 **Lab ID: 60395120002** Collected: 03/09/22 13:40 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW	Analytical Method: EPA 8082 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
PCB-1016 (Aroclor 1016)	**<19.1**	ug/kg	77.0	1	03/24/22 14:24	03/25/22 15:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<18.4**	ug/kg	77.0	1	03/24/22 14:24	03/25/22 15:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<8.4**	ug/kg	77.0	1	03/24/22 14:24	03/25/22 15:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<18.5**	ug/kg	77.0	1	03/24/22 14:24	03/25/22 15:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**<5.1**	ug/kg	77.0	1	03/24/22 14:24	03/25/22 15:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**<7.2**	ug/kg	77.0	1	03/24/22 14:24	03/25/22 15:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**<15.2**	ug/kg	77.0	1	03/24/22 14:24	03/25/22 15:02	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	75	%	35-120	1	03/24/22 14:24	03/25/22 15:02	2051-24-3	
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**20.2**	ug/kg	20.0	1	03/19/22 14:51	03/19/22 19:55	67-64-1	
Benzene	**1.3J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	71-43-2	
Bromobenzene	**<0.94**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	108-86-1	
Bromochloromethane	**<0.60**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	74-97-5	
Bromodichloromethane	**<0.60**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	75-27-4	
Bromoform	**<0.58**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	75-25-2	
Bromomethane	**<2.9**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	74-83-9	
2-Butanone (MEK)	**7.2J**	ug/kg	10.0	1	03/19/22 14:51	03/19/22 19:55	78-93-3	
n-Butylbenzene	**<0.65**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	104-51-8	
sec-Butylbenzene	**<0.73**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	135-98-8	
tert-Butylbenzene	**<0.88**	ug/kg	25.0	1	03/19/22 14:51	03/19/22 19:55	98-06-6	
Carbon disulfide	**<0.64**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	75-15-0	
Carbon tetrachloride	**<0.86**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	56-23-5	
Chlorobenzene	**<0.63**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	108-90-7	
Chloroethane	**<1.5**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	75-00-3	
Chloroform	**<0.49**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	67-66-3	
Chloromethane	**<0.80**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	74-87-3	
2-Chlorotoluene	**<0.73**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	95-49-8	
4-Chlorotoluene	**<0.60**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/kg	10.0	1	03/19/22 14:51	03/19/22 19:55	96-12-8	
Dibromochloromethane	**<0.65**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	124-48-1	
1,2-Dibromoethane (EDB)	**<0.54**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	106-93-4	
Dibromomethane	**<0.60**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	74-95-3	
1,2-Dichlorobenzene	**<0.63**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	95-50-1	
1,3-Dichlorobenzene	**<0.72**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	541-73-1	
1,4-Dichlorobenzene	**<0.81**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	106-46-7	
Dichlorodifluoromethane	**<1.2**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	75-71-8	
1,1-Dichloroethane	**15.0**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	75-34-3	
1,2-Dichloroethane	**<0.40**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	107-06-2	
1,1-Dichloroethene	**2.3J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	75-35-4	
trans-1,2-Dichloroethene	**5.0J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	156-60-5	
1,2-Dichloropropane	**<0.98**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	78-87-5	
1,3-Dichloropropane	**<0.69**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	142-28-9	

Pace Analytical Services, LLC
9608 Loiret Blvd.
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(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-L2 **Lab ID: 60395120002** Collected: 03/09/22 13:40 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030							
	Pace Analytical Services - Kansas City							
2,2-Dichloropropane	**<0.48**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	594-20-7	
1,1-Dichloropropene	**<0.90**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	563-58-6	
cis-1,3-Dichloropropene	**<0.53**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	10061-02-6	
Ethylbenzene	**<0.46**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	100-41-4	
Hexachloro-1,3-butadiene	**<0.85**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	87-68-3	
2-Hexanone	**<2.5**	ug/kg	20.0	1	03/19/22 14:51	03/19/22 19:55	591-78-6	
Isopropylbenzene (Cumene)	**<0.57**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	98-82-8	
p-Isopropyltoluene	**<0.69**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	99-87-6	
Methylene Chloride	**<2.7**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.0**	ug/kg	10.0	1	03/19/22 14:51	03/19/22 19:55	108-10-1	
Methyl-tert-butyl ether	**<0.48**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	1634-04-4	
Naphthalene	**<0.82**	ug/kg	10.0	1	03/19/22 14:51	03/19/22 19:55	91-20-3	
n-Propylbenzene	**<0.80**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	103-65-1	
Styrene	**<0.59**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	79-34-5	
Tetrachloroethene	**<0.41**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	127-18-4	
Toluene	**1.3J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	108-88-3	
1,2,3-Trichlorobenzene	**<0.80**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	87-61-6	
1,2,4-Trichlorobenzene	**<0.80**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	120-82-1	
1,1,1-Trichloroethane	**<0.75**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	71-55-6	
1,1,2-Trichloroethane	**<0.63**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	79-00-5	
Trichlorofluoromethane	**<0.61**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	75-69-4	
1,2,3-Trichloropropane	**<2.1**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	96-18-4	
1,2,4-Trimethylbenzene	**<0.67**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.63**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	108-67-8	
Vinyl chloride	**21.4**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	75-01-4	
Xylene (Total)	**<1.1**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 19:55	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	80-120	1	03/19/22 14:51	03/19/22 19:55	2037-26-5	
4-Bromofluorobenzene (S)	105	%	80-120	1	03/19/22 14:51	03/19/22 19:55	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	03/19/22 14:51	03/19/22 19:55	2199-69-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B							
	Pace Analytical Services - Kansas City							
1,2-Dichloroethene (Total)	**874**	ug/kg	288	1	03/22/22 10:58	03/22/22 13:01	540-59-0	
Trichloroethene	**6440**	ug/kg	288	1	03/22/22 10:58	03/22/22 13:01	79-01-6	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1	03/22/22 10:58	03/22/22 13:01	2037-26-5	
4-Bromofluorobenzene (S)	108	%	83-119	1	03/22/22 10:58	03/22/22 13:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	03/22/22 10:58	03/22/22 13:01	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-L2 **Lab ID: 60395120002** Collected: 03/09/22 13:40 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**17.2**	%	0.50	1		03/16/22 11:18		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-L3 **Lab ID: 60395120003** Collected: 03/09/22 13:55 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW	Analytical Method: EPA 8082 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
PCB-1016 (Aroclor 1016)	**<28.6**	ug/kg	115	1	03/24/22 14:24	03/25/22 15:38	12674-11-2	
PCB-1221 (Aroclor 1221)	**<27.5**	ug/kg	115	1	03/24/22 14:24	03/25/22 15:38	11104-28-2	
PCB-1232 (Aroclor 1232)	**<12.6**	ug/kg	115	1	03/24/22 14:24	03/25/22 15:38	11141-16-5	
PCB-1242 (Aroclor 1242)	**<27.8**	ug/kg	115	1	03/24/22 14:24	03/25/22 15:38	53469-21-9	
PCB-1248 (Aroclor 1248)	**<7.6**	ug/kg	115	1	03/24/22 14:24	03/25/22 15:38	12672-29-6	
PCB-1254 (Aroclor 1254)	**<10.8**	ug/kg	115	1	03/24/22 14:24	03/25/22 15:38	11097-69-1	
PCB-1260 (Aroclor 1260)	**<22.7**	ug/kg	115	1	03/24/22 14:24	03/25/22 15:38	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	73	%	35-120	1	03/24/22 14:24	03/25/22 15:38	2051-24-3	
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**180**	ug/kg	37.6	1	03/19/22 14:51	03/19/22 20:11	67-64-1	
Benzene	**65.4**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	71-43-2	
Bromobenzene	**<1.8**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	108-86-1	
Bromochloromethane	**<1.1**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	74-97-5	
Bromodichloromethane	**<1.1**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	75-27-4	
Bromoform	**<1.1**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	75-25-2	
Bromomethane	**<5.5**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	74-83-9	
2-Butanone (MEK)	**42.9**	ug/kg	18.8	1	03/19/22 14:51	03/19/22 20:11	78-93-3	
n-Butylbenzene	**20.3**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	104-51-8	
sec-Butylbenzene	**24.7**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	135-98-8	
tert-Butylbenzene	**<1.7**	ug/kg	47.0	1	03/19/22 14:51	03/19/22 20:11	98-06-6	
Carbon disulfide	**<1.2**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	75-15-0	
Carbon tetrachloride	**<1.6**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	56-23-5	
Chlorobenzene	**<1.2**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	108-90-7	
Chloroethane	**242**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	75-00-3	
Chloroform	**<0.93**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	67-66-3	
Chloromethane	**<1.5**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	74-87-3	
2-Chlorotoluene	**<1.4**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	95-49-8	
4-Chlorotoluene	**<1.1**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	106-43-4	
1,2-Dibromo-3-chloropropane	**<3.4**	ug/kg	18.8	1	03/19/22 14:51	03/19/22 20:11	96-12-8	
Dibromochloromethane	**<1.2**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	106-93-4	
Dibromomethane	**<1.1**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	74-95-3	
1,2-Dichlorobenzene	**<1.2**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	95-50-1	
1,3-Dichlorobenzene	**<1.4**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	541-73-1	
1,4-Dichlorobenzene	**<1.5**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	106-46-7	
Dichlorodifluoromethane	**<2.2**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	75-71-8	
1,1-Dichloroethane	**4.2J**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	75-34-3	
1,2-Dichloroethane	**<0.75**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	107-06-2	
1,2-Dichloroethene (Total)	**22.7**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	540-59-0	
1,1-Dichloroethene	**<1.2**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	75-35-4	
cis-1,2-Dichloroethene	**20.1**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	156-59-2	
trans-1,2-Dichloroethene	**2.6J**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-L3 **Lab ID: 60395120003** Collected: 03/09/22 13:55 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030							
	Pace Analytical Services - Kansas City							
1,2-Dichloropropane	**<1.8**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	78-87-5	
1,3-Dichloropropane	**<1.3**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	142-28-9	
2,2-Dichloropropane	**<0.89**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	594-20-7	
1,1-Dichloropropene	**<1.7**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	10061-01-5	
trans-1,3-Dichloropropene	**<0.86**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	10061-02-6	
Ethylbenzene	**147**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	100-41-4	
Hexachloro-1,3-butadiene	**<1.6**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	87-68-3	
2-Hexanone	**<4.7**	ug/kg	37.6	1	03/19/22 14:51	03/19/22 20:11	591-78-6	
Isopropylbenzene (Cumene)	**18.2**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	98-82-8	
p-Isopropyltoluene	**13.6**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	99-87-6	
Methylene Chloride	**<5.2**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.7**	ug/kg	18.8	1	03/19/22 14:51	03/19/22 20:11	108-10-1	
Methyl-tert-butyl ether	**<0.91**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	1634-04-4	
Naphthalene	**15.8J**	ug/kg	18.8	1	03/19/22 14:51	03/19/22 20:11	91-20-3	
n-Propylbenzene	**37.4**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	103-65-1	
Styrene	**<1.1**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.9**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.9**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	79-34-5	
Tetrachloroethene	**<0.78**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	127-18-4	
Toluene	**69.9**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	108-88-3	
1,2,3-Trichlorobenzene	**7.7J**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	87-61-6	B
1,2,4-Trichlorobenzene	**<1.5**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	120-82-1	
1,1,1-Trichloroethane	**9.0J**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	71-55-6	
1,1,2-Trichloroethane	**<1.2**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	79-00-5	
Trichloroethene	**2.8J**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	79-01-6	
Trichlorofluoromethane	**<1.2**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	75-69-4	
1,2,3-Trichloropropane	**<4.0**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	96-18-4	
1,2,4-Trimethylbenzene	**105**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	95-63-6	
1,3,5-Trimethylbenzene	**31.7**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	108-67-8	
Vinyl chloride	**<1.3**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	75-01-4	
Xylene (Total)	**695**	ug/kg	9.4	1	03/19/22 14:51	03/19/22 20:11	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1	03/19/22 14:51	03/19/22 20:11	2037-26-5	
4-Bromofluorobenzene (S)	111	%	80-120	1	03/19/22 14:51	03/19/22 20:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	03/19/22 14:51	03/19/22 20:11	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**43.2**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-L4 **Lab ID: 60395120004** Collected: 03/09/22 14:15 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW	Analytical Method: EPA 8082 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
PCB-1016 (Aroclor 1016)	**<23.5**	ug/kg	94.4	1	03/24/22 14:24	03/25/22 16:14	12674-11-2	
PCB-1221 (Aroclor 1221)	**<22.5**	ug/kg	94.4	1	03/24/22 14:24	03/25/22 16:14	11104-28-2	
PCB-1232 (Aroclor 1232)	**<10.3**	ug/kg	94.4	1	03/24/22 14:24	03/25/22 16:14	11141-16-5	
PCB-1242 (Aroclor 1242)	**<22.7**	ug/kg	94.4	1	03/24/22 14:24	03/25/22 16:14	53469-21-9	
PCB-1248 (Aroclor 1248)	**<6.2**	ug/kg	94.4	1	03/24/22 14:24	03/25/22 16:14	12672-29-6	
PCB-1254 (Aroclor 1254)	**<8.8**	ug/kg	94.4	1	03/24/22 14:24	03/25/22 16:14	11097-69-1	
PCB-1260 (Aroclor 1260)	**<18.6**	ug/kg	94.4	1	03/24/22 14:24	03/25/22 16:14	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	72	%	35-120	1	03/24/22 14:24	03/25/22 16:14	2051-24-3	
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**199**	ug/kg	38.7	1	03/21/22 08:02	03/21/22 10:07	67-64-1	
Benzene	**52.4**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	71-43-2	
Bromobenzene	**<1.8**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	108-86-1	
Bromochloromethane	**<1.2**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	74-97-5	
Bromodichloromethane	**<1.2**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	75-27-4	
Bromoform	**<1.1**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	75-25-2	
Bromomethane	**<5.7**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	74-83-9	
2-Butanone (MEK)	**40.3**	ug/kg	19.4	1	03/21/22 08:02	03/21/22 10:07	78-93-3	
n-Butylbenzene	**<1.3**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	104-51-8	
sec-Butylbenzene	**<1.4**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	135-98-8	
tert-Butylbenzene	**<1.7**	ug/kg	48.4	1	03/21/22 08:02	03/21/22 10:07	98-06-6	
Carbon disulfide	**<1.2**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	75-15-0	
Carbon tetrachloride	**<1.7**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	56-23-5	
Chlorobenzene	**<1.2**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	108-90-7	
Chloroethane	**<2.9**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	75-00-3	
Chloroform	**<0.95**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	67-66-3	
Chloromethane	**<1.5**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	74-87-3	
2-Chlorotoluene	**2.8J**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	95-49-8	
4-Chlorotoluene	**<1.2**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	106-43-4	
1,2-Dibromo-3-chloropropane	**<3.5**	ug/kg	19.4	1	03/21/22 08:02	03/21/22 10:07	96-12-8	
Dibromochloromethane	**<1.3**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	106-93-4	
Dibromomethane	**<1.2**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	74-95-3	
1,2-Dichlorobenzene	**<1.2**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	95-50-1	
1,3-Dichlorobenzene	**<1.4**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	541-73-1	
1,4-Dichlorobenzene	**<1.6**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	106-46-7	
Dichlorodifluoromethane	**<2.3**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	75-71-8	
1,1-Dichloroethane	**4.3J**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	75-34-3	
1,2-Dichloroethane	**<0.77**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	107-06-2	
1,2-Dichloroethene (Total)	**4.1J**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	540-59-0	
1,1-Dichloroethene	**<1.2**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	75-35-4	
cis-1,2-Dichloroethene	**4.1J**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	156-59-2	
trans-1,2-Dichloroethene	**<1.3**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-L4 **Lab ID: 60395120004** Collected: 03/09/22 14:15 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030							
	Pace Analytical Services - Kansas City							
1,2-Dichloropropane	**<1.9**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	78-87-5	
1,3-Dichloropropane	**<1.3**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	142-28-9	
2,2-Dichloropropane	**<0.92**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	594-20-7	
1,1-Dichloropropene	**<1.7**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	10061-01-5	
trans-1,3-Dichloropropene	**<0.88**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	10061-02-6	
Ethylbenzene	**39.3**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	100-41-4	
Hexachloro-1,3-butadiene	**<1.6**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	87-68-3	
2-Hexanone	**<4.8**	ug/kg	38.7	1	03/21/22 08:02	03/21/22 10:07	591-78-6	
Isopropylbenzene (Cumene)	**4.6J**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	98-82-8	
p-Isopropyltoluene	**<1.3**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	99-87-6	
Methylene Chloride	**<5.3**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.9**	ug/kg	19.4	1	03/21/22 08:02	03/21/22 10:07	108-10-1	
Methyl-tert-butyl ether	**<0.93**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	1634-04-4	
Naphthalene	**14.4J**	ug/kg	19.4	1	03/21/22 08:02	03/21/22 10:07	91-20-3	
n-Propylbenzene	**5.3J**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	103-65-1	
Styrene	**<1.1**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	100-42-5	
1,1,1,2-Tetrachloroethane	**<2.0**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.9**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	79-34-5	
Tetrachloroethene	**<0.80**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	127-18-4	
Toluene	**8.1J**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	108-88-3	
1,2,3-Trichlorobenzene	**<1.5**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	87-61-6	
1,2,4-Trichlorobenzene	**<1.5**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	120-82-1	
1,1,1-Trichloroethane	**<1.4**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	71-55-6	
1,1,2-Trichloroethane	**<1.2**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	79-00-5	
Trichloroethene	**<1.4**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	79-01-6	
Trichlorofluoromethane	**<1.2**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	75-69-4	
1,2,3-Trichloropropane	**<4.1**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	96-18-4	
1,2,4-Trimethylbenzene	**12.0**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	95-63-6	
1,3,5-Trimethylbenzene	**4.2J**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	108-67-8	
Vinyl chloride	**<1.3**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	75-01-4	
Xylene (Total)	**112**	ug/kg	9.7	1	03/21/22 08:02	03/21/22 10:07	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1	03/21/22 08:02	03/21/22 10:07	2037-26-5	
4-Bromofluorobenzene (S)	111	%	80-120	1	03/21/22 08:02	03/21/22 10:07	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	03/21/22 08:02	03/21/22 10:07	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**32.0**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-27 **Lab ID: 60395120005** Collected: 03/09/22 14:55 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**<16.7**	ug/kg	20.6	1	03/19/22 14:51	03/19/22 20:43	67-64-1	
Benzene	**1.0J**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	71-43-2	
Bromobenzene	**<0.97**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	108-86-1	
Bromochloromethane	**<0.62**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	74-97-5	
Bromodichloromethane	**<0.62**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	75-27-4	
Bromoform	**<0.59**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	75-25-2	
Bromomethane	**<3.0**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	74-83-9	
2-Butanone (MEK)	**<3.5**	ug/kg	10.3	1	03/19/22 14:51	03/19/22 20:43	78-93-3	
n-Butylbenzene	**<0.67**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	104-51-8	
sec-Butylbenzene	**<0.75**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	135-98-8	
tert-Butylbenzene	**<0.91**	ug/kg	25.8	1	03/19/22 14:51	03/19/22 20:43	98-06-6	
Carbon disulfide	**<0.66**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	75-15-0	
Carbon tetrachloride	**<0.88**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	56-23-5	
Chlorobenzene	**<0.65**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	108-90-7	
Chloroethane	**<1.5**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	75-00-3	
Chloroform	**<0.51**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	67-66-3	
Chloromethane	**<0.82**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	74-87-3	
2-Chlorotoluene	**<0.75**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	95-49-8	
4-Chlorotoluene	**<0.62**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.9**	ug/kg	10.3	1	03/19/22 14:51	03/19/22 20:43	96-12-8	
Dibromochloromethane	**<0.67**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	124-48-1	
1,2-Dibromoethane (EDB)	**<0.55**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	106-93-4	
Dibromomethane	**<0.62**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	74-95-3	
1,2-Dichlorobenzene	**<0.65**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	95-50-1	
1,3-Dichlorobenzene	**<0.74**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	541-73-1	
1,4-Dichlorobenzene	**<0.84**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	106-46-7	
Dichlorodifluoromethane	**<1.2**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	75-71-8	
1,1-Dichloroethane	**24.4**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	107-06-2	
1,2-Dichloroethene (Total)	**215**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	540-59-0	
1,1-Dichloroethene	**1.9J**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	75-35-4	
cis-1,2-Dichloroethene	**215**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	156-59-2	
trans-1,2-Dichloroethene	**<0.70**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	78-87-5	
1,3-Dichloropropane	**<0.71**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	142-28-9	
2,2-Dichloropropane	**<0.49**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	594-20-7	
1,1-Dichloropropene	**<0.93**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	563-58-6	
cis-1,3-Dichloropropene	**<0.55**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.47**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	10061-02-6	
Ethylbenzene	**0.72J**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	100-41-4	
Hexachloro-1,3-butadiene	**<0.88**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	87-68-3	
2-Hexanone	**<2.6**	ug/kg	20.6	1	03/19/22 14:51	03/19/22 20:43	591-78-6	
Isopropylbenzene (Cumene)	**<0.59**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	98-82-8	
p-Isopropyltoluene	**<0.71**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	99-87-6	
Methylene Chloride	**<2.8**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-27 **Lab ID: 60395120005** Collected: 03/09/22 14:55 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**<3.1**	ug/kg	10.3	1	03/19/22 14:51	03/19/22 20:43	108-10-1	
Methyl-tert-butyl ether	**<0.50**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	1634-04-4	
Naphthalene	**<0.85**	ug/kg	10.3	1	03/19/22 14:51	03/19/22 20:43	91-20-3	
n-Propylbenzene	**<0.83**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	103-65-1	
Styrene	**<0.61**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.1**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	79-34-5	
Tetrachloroethene	**<0.43**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	127-18-4	
Toluene	**1.4J**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	108-88-3	
1,2,3-Trichlorobenzene	**<0.82**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	87-61-6	
1,2,4-Trichlorobenzene	**<0.82**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	120-82-1	
1,1,1-Trichloroethane	**41.5**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	71-55-6	
1,1,2-Trichloroethane	**<0.65**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	79-00-5	
Trichloroethene	**13.4**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	79-01-6	
Trichlorofluoromethane	**<0.63**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	75-69-4	
1,2,3-Trichloropropane	**<2.2**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	96-18-4	
1,2,4-Trimethylbenzene	**<0.69**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.65**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	108-67-8	
Vinyl chloride	**<0.69**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	75-01-4	
Xylene (Total)	**1.5J**	ug/kg	5.2	1	03/19/22 14:51	03/19/22 20:43	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	80-120	1	03/19/22 14:51	03/19/22 20:43	2037-26-5	
4-Bromofluorobenzene (S)	107	%	80-120	1	03/19/22 14:51	03/19/22 20:43	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	03/19/22 14:51	03/19/22 20:43	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**17.8**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-28 **Lab ID: 60395120006** Collected: 03/09/22 15:15 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
Acetone	**<260**	ug/kg	1200	1	03/21/22 16:59	03/21/22 20:05	67-64-1	
Benzene	**42.8J**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	71-43-2	
Bromobenzene	**<36.1**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	108-86-1	
Bromochloromethane	**<32.0**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	74-97-5	
Bromodichloromethane	**<22.7**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	75-27-4	
Bromoform	**<18.1**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	75-25-2	
Bromomethane	**<175**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	74-83-9	
2-Butanone (MEK)	**312J**	ug/kg	600	1	03/21/22 16:59	03/21/22 20:05	78-93-3	L1
n-Butylbenzene	**<54.7**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	104-51-8	
sec-Butylbenzene	**<45.6**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	135-98-8	
tert-Butylbenzene	**<38.2**	ug/kg	1500	1	03/21/22 16:59	03/21/22 20:05	98-06-6	
Carbon disulfide	**<31.6**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	75-15-0	
Carbon tetrachloride	**<28.3**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	56-23-5	
Chlorobenzene	**<29.8**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	108-90-7	
Chloroethane	**446**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	75-00-3	
Chloroform	**<24.1**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	67-66-3	
Chloromethane	**<73.2**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	74-87-3	
2-Chlorotoluene	**<33.2**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	95-49-8	
4-Chlorotoluene	**<42.4**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	106-43-4	
1,2-Dibromo-3-chloropropane	**<67.1**	ug/kg	600	1	03/21/22 16:59	03/21/22 20:05	96-12-8	
Dibromochloromethane	**<25.4**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	124-48-1	
1,2-Dibromoethane (EDB)	**<22.0**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	106-93-4	
Dibromomethane	**<30.6**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	74-95-3	
1,2-Dichlorobenzene	**<46.2**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	95-50-1	
1,3-Dichlorobenzene	**<45.2**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	541-73-1	
1,4-Dichlorobenzene	**<45.8**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	106-46-7	
Dichlorodifluoromethane	**<47.4**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	75-71-8	
1,1-Dichloroethane	**<107**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	75-34-3	
1,2-Dichloroethane	**<21.2**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	107-06-2	
1,2-Dichloroethene (Total)	**1810**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	540-59-0	
1,1-Dichloroethene	**<30.7**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	75-35-4	
cis-1,2-Dichloroethene	**1800**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	156-59-2	
trans-1,2-Dichloroethene	**<22.7**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	156-60-5	
1,2-Dichloropropane	**<22.3**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	78-87-5	
1,3-Dichloropropane	**<23.2**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	142-28-9	
2,2-Dichloropropane	**<24.2**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	594-20-7	
1,1-Dichloropropene	**<26.6**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	563-58-6	
cis-1,3-Dichloropropene	**<24.7**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	10061-01-5	
trans-1,3-Dichloropropene	**<21.5**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	10061-02-6	
Ethylbenzene	**64.3J**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	100-41-4	
Hexachloro-1,3-butadiene	**<76.3**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	87-68-3	
2-Hexanone	**<117**	ug/kg	1200	1	03/21/22 16:59	03/21/22 20:05	591-78-6	L1
Isopropylbenzene (Cumene)	**<41.9**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	98-82-8	
p-Isopropyltoluene	**<45.1**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	99-87-6	
Methylene Chloride	**<281**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-28 **Lab ID: 60395120006** Collected: 03/09/22 15:15 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**<110**	ug/kg	600	1	03/21/22 16:59	03/21/22 20:05	108-10-1	L1
Methyl-tert-butyl ether	**<29.9**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	1634-04-4	
Naphthalene	**<82.3**	ug/kg	600	1	03/21/22 16:59	03/21/22 20:05	91-20-3	
n-Propylbenzene	**<43.8**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	103-65-1	
Styrene	**<50.9**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	100-42-5	
1,1,1,2-Tetrachloroethane	**<24.2**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	630-20-6	
1,1,2,2-Tetrachloroethane	**<25.4**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	79-34-5	
Tetrachloroethene	**<27.0**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	127-18-4	
Toluene	**27100**	ug/kg	1500	5	03/21/22 16:59	03/22/22 10:19	108-88-3	
1,2,3-Trichlorobenzene	**<86.8**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	87-61-6	
1,2,4-Trichlorobenzene	**<67.4**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	120-82-1	
1,1,1-Trichloroethane	**<25.0**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	71-55-6	
1,1,2-Trichloroethane	**<37.6**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	79-00-5	
Trichloroethene	**<26.3**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	79-01-6	
Trichlorofluoromethane	**<31.6**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	75-69-4	
1,2,3-Trichloropropane	**<33.7**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	96-18-4	
1,2,4-Trimethylbenzene	**43.5J**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	95-63-6	
1,3,5-Trimethylbenzene	**<42.8**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	108-67-8	
Vinyl chloride	**1060**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	75-01-4	
Xylene (Total)	**307**	ug/kg	300	1	03/21/22 16:59	03/21/22 20:05	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1	03/21/22 16:59	03/21/22 20:05	2037-26-5	
4-Bromofluorobenzene (S)	108	%	83-119	1	03/21/22 16:59	03/21/22 20:05	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	03/21/22 16:59	03/21/22 20:05	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**19.6**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SW-1 **Lab ID: 60395120007** Collected: 03/09/22 15:20 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	**<2.5**	ug/L	10.0	1		03/18/22 18:00	67-64-1	
Benzene	**<0.14**	ug/L	1.0	1		03/18/22 18:00	71-43-2	
Bromobenzene	**<0.088**	ug/L	1.0	1		03/18/22 18:00	108-86-1	
Bromochloromethane	**<0.20**	ug/L	1.0	1		03/18/22 18:00	74-97-5	
Bromodichloromethane	**<0.16**	ug/L	1.0	1		03/18/22 18:00	75-27-4	
Bromoform	**<0.68**	ug/L	1.0	1		03/18/22 18:00	75-25-2	
Bromomethane	**<0.46**	ug/L	5.0	1		03/18/22 18:00	74-83-9	
2-Butanone (MEK)	**<0.98**	ug/L	10.0	1		03/18/22 18:00	78-93-3	
n-Butylbenzene	**<0.15**	ug/L	1.0	1		03/18/22 18:00	104-51-8	
sec-Butylbenzene	**<0.11**	ug/L	1.0	1		03/18/22 18:00	135-98-8	
tert-Butylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 18:00	98-06-6	
Carbon disulfide	**<0.98**	ug/L	5.0	1		03/18/22 18:00	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	1		03/18/22 18:00	56-23-5	
Chlorobenzene	**<0.089**	ug/L	1.0	1		03/18/22 18:00	108-90-7	
Chloroethane	**1.0**	ug/L	1.0	1		03/18/22 18:00	75-00-3	
Chloroform	**<0.22**	ug/L	1.0	1		03/18/22 18:00	67-66-3	
Chloromethane	**<0.28**	ug/L	1.0	1		03/18/22 18:00	74-87-3	
2-Chlorotoluene	**<0.11**	ug/L	1.0	1		03/18/22 18:00	95-49-8	
4-Chlorotoluene	**<0.15**	ug/L	1.0	1		03/18/22 18:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.78**	ug/L	2.5	1		03/18/22 18:00	96-12-8	
Dibromochloromethane	**<0.30**	ug/L	1.0	1		03/18/22 18:00	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	1		03/18/22 18:00	106-93-4	
Dibromomethane	**<0.11**	ug/L	1.0	1		03/18/22 18:00	74-95-3	
1,2-Dichlorobenzene	**<0.12**	ug/L	1.0	1		03/18/22 18:00	95-50-1	
1,3-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 18:00	541-73-1	
1,4-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 18:00	106-46-7	
Dichlorodifluoromethane	**<0.20**	ug/L	1.0	1		03/18/22 18:00	75-71-8	
1,1-Dichloroethane	**1.7**	ug/L	1.0	1		03/18/22 18:00	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	1.0	1		03/18/22 18:00	107-06-2	
1,2-Dichloroethene (Total)	**3.5**	ug/L	1.0	1		03/18/22 18:00	540-59-0	
1,1-Dichloroethene	**<0.22**	ug/L	1.0	1		03/18/22 18:00	75-35-4	
cis-1,2-Dichloroethene	**2.9**	ug/L	1.0	1		03/18/22 18:00	156-59-2	B
trans-1,2-Dichloroethene	**0.60J**	ug/L	1.0	1		03/18/22 18:00	156-60-5	
1,2-Dichloropropane	**<0.14**	ug/L	1.0	1		03/18/22 18:00	78-87-5	
1,3-Dichloropropane	**<0.10**	ug/L	1.0	1		03/18/22 18:00	142-28-9	
2,2-Dichloropropane	**<0.16**	ug/L	1.0	1		03/18/22 18:00	594-20-7	
1,1-Dichloropropene	**<0.14**	ug/L	1.0	1		03/18/22 18:00	563-58-6	
cis-1,3-Dichloropropene	**<0.078**	ug/L	1.0	1		03/18/22 18:00	10061-01-5	
trans-1,3-Dichloropropene	**<0.18**	ug/L	1.0	1		03/18/22 18:00	10061-02-6	
Ethylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 18:00	100-41-4	
Hexachloro-1,3-butadiene	**<0.42**	ug/L	1.0	1		03/18/22 18:00	87-68-3	
2-Hexanone	**<1.1**	ug/L	10.0	1		03/18/22 18:00	591-78-6	
Isopropylbenzene (Cumene)	**<0.097**	ug/L	1.0	1		03/18/22 18:00	98-82-8	
p-Isopropyltoluene	**<0.13**	ug/L	1.0	1		03/18/22 18:00	99-87-6	
Methylene Chloride	**<0.39**	ug/L	1.0	1		03/18/22 18:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.74**	ug/L	10.0	1		03/18/22 18:00	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SW-1 **Lab ID: 60395120007** Collected: 03/09/22 15:20 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	1		03/18/22 18:00	1634-04-4	
Naphthalene	**<0.82**	ug/L	10.0	1		03/18/22 18:00	91-20-3	
n-Propylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 18:00	103-65-1	
Styrene	**<0.12**	ug/L	1.0	1		03/18/22 18:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.084**	ug/L	1.0	1		03/18/22 18:00	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/L	1.0	1		03/18/22 18:00	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.0	1		03/18/22 18:00	127-18-4	
Toluene	**<0.25**	ug/L	1.0	1		03/18/22 18:00	108-88-3	
1,2,3-Trichlorobenzene	**<0.93**	ug/L	1.0	1		03/18/22 18:00	87-61-6	
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	1		03/18/22 18:00	120-82-1	
1,1,1-Trichloroethane	**<0.11**	ug/L	1.0	1		03/18/22 18:00	71-55-6	
1,1,2-Trichloroethane	**<0.14**	ug/L	1.0	1		03/18/22 18:00	79-00-5	
Trichloroethene	**0.59J**	ug/L	1.0	1		03/18/22 18:00	79-01-6	B
Trichlorofluoromethane	**<0.16**	ug/L	1.0	1		03/18/22 18:00	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	2.5	1		03/18/22 18:00	96-18-4	
1,2,4-Trimethylbenzene	**<0.32**	ug/L	1.0	1		03/18/22 18:00	95-63-6	
1,3,5-Trimethylbenzene	**<0.090**	ug/L	1.0	1		03/18/22 18:00	108-67-8	
Vinyl chloride	**1.3**	ug/L	1.0	1		03/18/22 18:00	75-01-4	
Xylene (Total)	**<0.28**	ug/L	3.0	1		03/18/22 18:00	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		03/18/22 18:00	460-00-4	
Toluene-d8 (S)	99	%	80-120	1		03/18/22 18:00	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		03/18/22 18:00	2199-69-1	
Preservation pH	**1.0**		0.10	1		03/18/22 18:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SW-1-FD **Lab ID: 60395120008** Collected: 03/09/22 15:20 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	**<2.5**	ug/L	10.0	1		03/18/22 17:45	67-64-1	
Benzene	**<0.14**	ug/L	1.0	1		03/18/22 17:45	71-43-2	
Bromobenzene	**<0.088**	ug/L	1.0	1		03/18/22 17:45	108-86-1	
Bromochloromethane	**<0.20**	ug/L	1.0	1		03/18/22 17:45	74-97-5	
Bromodichloromethane	**<0.16**	ug/L	1.0	1		03/18/22 17:45	75-27-4	
Bromoform	**<0.68**	ug/L	1.0	1		03/18/22 17:45	75-25-2	
Bromomethane	**<0.46**	ug/L	5.0	1		03/18/22 17:45	74-83-9	
2-Butanone (MEK)	**<0.98**	ug/L	10.0	1		03/18/22 17:45	78-93-3	
n-Butylbenzene	**<0.15**	ug/L	1.0	1		03/18/22 17:45	104-51-8	
sec-Butylbenzene	**<0.11**	ug/L	1.0	1		03/18/22 17:45	135-98-8	
tert-Butylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:45	98-06-6	
Carbon disulfide	**<0.98**	ug/L	5.0	1		03/18/22 17:45	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	1		03/18/22 17:45	56-23-5	
Chlorobenzene	**<0.089**	ug/L	1.0	1		03/18/22 17:45	108-90-7	
Chloroethane	**1.2**	ug/L	1.0	1		03/18/22 17:45	75-00-3	
Chloroform	**<0.22**	ug/L	1.0	1		03/18/22 17:45	67-66-3	
Chloromethane	**<0.28**	ug/L	1.0	1		03/18/22 17:45	74-87-3	
2-Chlorotoluene	**<0.11**	ug/L	1.0	1		03/18/22 17:45	95-49-8	
4-Chlorotoluene	**<0.15**	ug/L	1.0	1		03/18/22 17:45	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.78**	ug/L	2.5	1		03/18/22 17:45	96-12-8	
Dibromochloromethane	**<0.30**	ug/L	1.0	1		03/18/22 17:45	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	1		03/18/22 17:45	106-93-4	
Dibromomethane	**<0.11**	ug/L	1.0	1		03/18/22 17:45	74-95-3	
1,2-Dichlorobenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:45	95-50-1	
1,3-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 17:45	541-73-1	
1,4-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 17:45	106-46-7	
Dichlorodifluoromethane	**<0.20**	ug/L	1.0	1		03/18/22 17:45	75-71-8	
1,1-Dichloroethane	**1.7**	ug/L	1.0	1		03/18/22 17:45	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	1.0	1		03/18/22 17:45	107-06-2	
1,2-Dichloroethene (Total)	**3.3**	ug/L	1.0	1		03/18/22 17:45	540-59-0	
1,1-Dichloroethene	**<0.22**	ug/L	1.0	1		03/18/22 17:45	75-35-4	
cis-1,2-Dichloroethene	**2.7**	ug/L	1.0	1		03/18/22 17:45	156-59-2	B
trans-1,2-Dichloroethene	**0.61J**	ug/L	1.0	1		03/18/22 17:45	156-60-5	
1,2-Dichloropropane	**<0.14**	ug/L	1.0	1		03/18/22 17:45	78-87-5	
1,3-Dichloropropane	**<0.10**	ug/L	1.0	1		03/18/22 17:45	142-28-9	
2,2-Dichloropropane	**<0.16**	ug/L	1.0	1		03/18/22 17:45	594-20-7	
1,1-Dichloropropene	**<0.14**	ug/L	1.0	1		03/18/22 17:45	563-58-6	
cis-1,3-Dichloropropene	**<0.078**	ug/L	1.0	1		03/18/22 17:45	10061-01-5	
trans-1,3-Dichloropropene	**<0.18**	ug/L	1.0	1		03/18/22 17:45	10061-02-6	
Ethylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:45	100-41-4	
Hexachloro-1,3-butadiene	**<0.42**	ug/L	1.0	1		03/18/22 17:45	87-68-3	
2-Hexanone	**<1.1**	ug/L	10.0	1		03/18/22 17:45	591-78-6	
Isopropylbenzene (Cumene)	**<0.097**	ug/L	1.0	1		03/18/22 17:45	98-82-8	
p-Isopropyltoluene	**<0.13**	ug/L	1.0	1		03/18/22 17:45	99-87-6	
Methylene Chloride	**<0.39**	ug/L	1.0	1		03/18/22 17:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.74**	ug/L	10.0	1		03/18/22 17:45	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SW-1-FD **Lab ID: 60395120008** Collected: 03/09/22 15:20 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	1		03/18/22 17:45	1634-04-4	
Naphthalene	**<0.82**	ug/L	10.0	1		03/18/22 17:45	91-20-3	
n-Propylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:45	103-65-1	
Styrene	**<0.12**	ug/L	1.0	1		03/18/22 17:45	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.084**	ug/L	1.0	1		03/18/22 17:45	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/L	1.0	1		03/18/22 17:45	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.0	1		03/18/22 17:45	127-18-4	
Toluene	**<0.25**	ug/L	1.0	1		03/18/22 17:45	108-88-3	
1,2,3-Trichlorobenzene	**<0.93**	ug/L	1.0	1		03/18/22 17:45	87-61-6	
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	1		03/18/22 17:45	120-82-1	
1,1,1-Trichloroethane	**<0.11**	ug/L	1.0	1		03/18/22 17:45	71-55-6	
1,1,2-Trichloroethane	**<0.14**	ug/L	1.0	1		03/18/22 17:45	79-00-5	
Trichloroethene	**0.58J**	ug/L	1.0	1		03/18/22 17:45	79-01-6	B
Trichlorofluoromethane	**<0.16**	ug/L	1.0	1		03/18/22 17:45	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	2.5	1		03/18/22 17:45	96-18-4	
1,2,4-Trimethylbenzene	**<0.32**	ug/L	1.0	1		03/18/22 17:45	95-63-6	
1,3,5-Trimethylbenzene	**<0.090**	ug/L	1.0	1		03/18/22 17:45	108-67-8	
Vinyl chloride	**1.3**	ug/L	1.0	1		03/18/22 17:45	75-01-4	
Xylene (Total)	**<0.28**	ug/L	3.0	1		03/18/22 17:45	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		03/18/22 17:45	460-00-4	
Toluene-d8 (S)	100	%	80-120	1		03/18/22 17:45	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1		03/18/22 17:45	2199-69-1	
Preservation pH	**1.0**		0.10	1		03/18/22 17:45		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-29 **Lab ID: 60395120009** Collected: 03/09/22 15:30 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
Acetone	**<270**	ug/kg	1240	1	03/21/22 16:59	03/21/22 20:21	67-64-1	
Benzene	**63.6J**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	71-43-2	
Bromobenzene	**<37.4**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	108-86-1	
Bromochloromethane	**<33.2**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	74-97-5	
Bromodichloromethane	**<23.5**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	75-27-4	
Bromoform	**<18.8**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	75-25-2	
Bromomethane	**<181**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	74-83-9	
2-Butanone (MEK)	**254J**	ug/kg	621	1	03/21/22 16:59	03/21/22 20:21	78-93-3	L1
n-Butylbenzene	**<56.6**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	104-51-8	
sec-Butylbenzene	**<47.2**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	135-98-8	
tert-Butylbenzene	**<39.5**	ug/kg	1550	1	03/21/22 16:59	03/21/22 20:21	98-06-6	
Carbon disulfide	**<32.7**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	75-15-0	
Carbon tetrachloride	**<29.3**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	56-23-5	
Chlorobenzene	**<30.8**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	108-90-7	
Chloroethane	**538**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	75-00-3	
Chloroform	**<25.0**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	67-66-3	
Chloromethane	**<75.8**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	74-87-3	
2-Chlorotoluene	**<34.4**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	95-49-8	
4-Chlorotoluene	**<43.8**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<69.4**	ug/kg	621	1	03/21/22 16:59	03/21/22 20:21	96-12-8	
Dibromochloromethane	**<26.3**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	124-48-1	
1,2-Dibromoethane (EDB)	**<22.7**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	106-93-4	
Dibromomethane	**<31.7**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	74-95-3	
1,2-Dichlorobenzene	**<47.8**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	95-50-1	
1,3-Dichlorobenzene	**<46.8**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	541-73-1	
1,4-Dichlorobenzene	**<47.4**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	106-46-7	
Dichlorodifluoromethane	**<49.1**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	75-71-8	
1,1-Dichloroethane	**228J**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	75-34-3	
1,2-Dichloroethane	**<22.0**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	107-06-2	
1,2-Dichloroethene (Total)	**9740**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	540-59-0	
1,1-Dichloroethene	**74.2J**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	75-35-4	
cis-1,2-Dichloroethene	**9700**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	156-59-2	
trans-1,2-Dichloroethene	**44.7J**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	156-60-5	
1,2-Dichloropropane	**<23.1**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	78-87-5	
1,3-Dichloropropane	**<24.0**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	142-28-9	
2,2-Dichloropropane	**<25.1**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	594-20-7	
1,1-Dichloropropene	**<27.6**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	563-58-6	
cis-1,3-Dichloropropene	**<25.6**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	10061-01-5	
trans-1,3-Dichloropropene	**<22.2**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	10061-02-6	
Ethylbenzene	**74.0J**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	100-41-4	
Hexachloro-1,3-butadiene	**<79.0**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	87-68-3	
2-Hexanone	**<121**	ug/kg	1240	1	03/21/22 16:59	03/21/22 20:21	591-78-6	L1
Isopropylbenzene (Cumene)	**<43.3**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	98-82-8	
p-Isopropyltoluene	**<46.7**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	99-87-6	
Methylene Chloride	**<291**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-29 **Lab ID: 60395120009** Collected: 03/09/22 15:30 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**<114**	ug/kg	621	1	03/21/22 16:59	03/21/22 20:21	108-10-1	L1
Methyl-tert-butyl ether	**<30.9**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	1634-04-4	
Naphthalene	**<85.2**	ug/kg	621	1	03/21/22 16:59	03/21/22 20:21	91-20-3	
n-Propylbenzene	**<45.3**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	103-65-1	
Styrene	**<52.7**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<25.1**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	630-20-6	
1,1,2,2-Tetrachloroethane	**<26.3**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	79-34-5	
Tetrachloroethene	**<27.9**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	127-18-4	
Toluene	**28400**	ug/kg	1550	5	03/21/22 16:59	03/22/22 10:35	108-88-3	
1,2,3-Trichlorobenzene	**<89.8**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	87-61-6	
1,2,4-Trichlorobenzene	**<69.8**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	120-82-1	
1,1,1-Trichloroethane	**<25.8**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	71-55-6	
1,1,2-Trichloroethane	**<38.9**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	79-00-5	
Trichloroethene	**<27.2**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	79-01-6	
Trichlorofluoromethane	**<32.7**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	75-69-4	
1,2,3-Trichloropropane	**<34.9**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	96-18-4	
1,2,4-Trimethylbenzene	**42.4J**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	95-63-6	
1,3,5-Trimethylbenzene	**<44.3**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	108-67-8	
Vinyl chloride	**4100**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	75-01-4	
Xylene (Total)	**331**	ug/kg	310	1	03/21/22 16:59	03/21/22 20:21	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1	03/21/22 16:59	03/21/22 20:21	2037-26-5	
4-Bromofluorobenzene (S)	107	%	83-119	1	03/21/22 16:59	03/21/22 20:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	03/21/22 16:59	03/21/22 20:21	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**19.7**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-30 **Lab ID: 60395120010** Collected: 03/09/22 15:50 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**<16.3**	ug/kg	20.1	1	03/19/22 14:51	03/19/22 20:59	67-64-1	
Benzene	**1.9J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	71-43-2	
Bromobenzene	**<0.94**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	108-86-1	
Bromochloromethane	**<0.60**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	74-97-5	
Bromodichloromethane	**<0.60**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	75-27-4	
Bromoform	**<0.58**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	75-25-2	
Bromomethane	**<2.9**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	74-83-9	
2-Butanone (MEK)	**<3.4**	ug/kg	10.0	1	03/19/22 14:51	03/19/22 20:59	78-93-3	
n-Butylbenzene	**<0.65**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	104-51-8	
sec-Butylbenzene	**<0.73**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	135-98-8	
tert-Butylbenzene	**<0.89**	ug/kg	25.1	1	03/19/22 14:51	03/19/22 20:59	98-06-6	
Carbon disulfide	**0.79J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	75-15-0	
Carbon tetrachloride	**<0.86**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	56-23-5	
Chlorobenzene	**<0.63**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	108-90-7	
Chloroethane	**51.0**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	75-00-3	
Chloroform	**<0.49**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	67-66-3	
Chloromethane	**<0.80**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	74-87-3	
2-Chlorotoluene	**<0.73**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	95-49-8	
4-Chlorotoluene	**<0.60**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/kg	10.0	1	03/19/22 14:51	03/19/22 20:59	96-12-8	
Dibromochloromethane	**<0.65**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	124-48-1	
1,2-Dibromoethane (EDB)	**<0.54**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	106-93-4	
Dibromomethane	**<0.60**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	74-95-3	
1,2-Dichlorobenzene	**<0.63**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	95-50-1	
1,3-Dichlorobenzene	**<0.72**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	541-73-1	
1,4-Dichlorobenzene	**<0.81**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	106-46-7	
Dichlorodifluoromethane	**<1.2**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	75-71-8	
1,1-Dichloroethane	**235**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	75-34-3	
1,2-Dichloroethane	**<0.40**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	107-06-2	
1,1-Dichloroethene	**1.7J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	75-35-4	
trans-1,2-Dichloroethene	**2.0J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	156-60-5	
1,2-Dichloropropane	**<0.98**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	78-87-5	
1,3-Dichloropropane	**<0.69**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	594-20-7	
1,1-Dichloropropene	**<0.90**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	563-58-6	
cis-1,3-Dichloropropene	**<0.53**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	10061-02-6	
Ethylbenzene	**<0.46**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	100-41-4	
Hexachloro-1,3-butadiene	**<0.85**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	87-68-3	
2-Hexanone	**<2.5**	ug/kg	20.1	1	03/19/22 14:51	03/19/22 20:59	591-78-6	
Isopropylbenzene (Cumene)	**<0.57**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	98-82-8	
p-Isopropyltoluene	**<0.69**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	99-87-6	
Methylene Chloride	**<2.7**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.0**	ug/kg	10.0	1	03/19/22 14:51	03/19/22 20:59	108-10-1	
Methyl-tert-butyl ether	**<0.48**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-30 **Lab ID: 60395120010** Collected: 03/09/22 15:50 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Naphthalene	**<0.82**	ug/kg	10.0	1	03/19/22 14:51	03/19/22 20:59	91-20-3	
n-Propylbenzene	**<0.81**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	103-65-1	
Styrene	**<0.59**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	79-34-5	
Tetrachloroethene	**0.63J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	127-18-4	
Toluene	**1.1J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	108-88-3	
1,2,3-Trichlorobenzene	**<0.80**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	87-61-6	
1,2,4-Trichlorobenzene	**<0.80**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	120-82-1	
1,1,1-Trichloroethane	**4.4J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	71-55-6	
1,1,2-Trichloroethane	**<0.63**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	79-00-5	
Trichloroethene	**0.93J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	79-01-6	
Trichlorofluoromethane	**<0.62**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	75-69-4	
1,2,3-Trichloropropane	**<2.1**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	96-18-4	
1,2,4-Trimethylbenzene	**<0.67**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	95-63-6	
1,3,5-Trimethylbenzene	**<0.63**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	108-67-8	
Vinyl chloride	**140**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	75-01-4	
Xylene (Total)	**1.8J**	ug/kg	5.0	1	03/19/22 14:51	03/19/22 20:59	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1	03/19/22 14:51	03/19/22 20:59	2037-26-5	
4-Bromofluorobenzene (S)	109	%	80-120	1	03/19/22 14:51	03/19/22 20:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120	1	03/19/22 14:51	03/19/22 20:59	2199-69-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
cis-1,2-Dichloroethene	**698**	ug/kg	317	1	03/22/22 10:58	03/22/22 11:40	156-59-2	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1	03/22/22 10:58	03/22/22 11:40	2037-26-5	
4-Bromofluorobenzene (S)	108	%	83-119	1	03/22/22 10:58	03/22/22 11:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	03/22/22 10:58	03/22/22 11:40	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**21.1**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SED-1 **Lab ID: 60395120011** Collected: 03/09/22 15:40 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW	Analytical Method: EPA 8082 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
PCB-1016 (Aroclor 1016)	**<86.4**	ug/kg	348	1	03/16/22 14:27	03/21/22 09:02	12674-11-2	
PCB-1221 (Aroclor 1221)	**<82.9**	ug/kg	348	1	03/16/22 14:27	03/21/22 09:02	11104-28-2	
PCB-1232 (Aroclor 1232)	**<37.9**	ug/kg	348	1	03/16/22 14:27	03/21/22 09:02	11141-16-5	
PCB-1242 (Aroclor 1242)	**<83.8**	ug/kg	348	1	03/16/22 14:27	03/21/22 09:02	53469-21-9	
PCB-1248 (Aroclor 1248)	**<23.0**	ug/kg	348	1	03/16/22 14:27	03/21/22 09:02	12672-29-6	
PCB-1254 (Aroclor 1254)	**<32.6**	ug/kg	348	1	03/16/22 14:27	03/21/22 09:02	11097-69-1	
PCB-1260 (Aroclor 1260)	**<68.5**	ug/kg	348	1	03/16/22 14:27	03/21/22 09:02	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	59	%	35-120	1	03/16/22 14:27	03/21/22 09:02	2051-24-3	1e
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**50.6**	ug/kg	36.7	1	03/17/22 14:04	03/17/22 18:50	67-64-1	
Benzene	**<0.91**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	71-43-2	
Bromobenzene	**<1.7**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	108-86-1	
Bromochloromethane	**<1.1**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	74-97-5	
Bromodichloromethane	**<1.1**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	75-27-4	
Bromoform	**<1.1**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	75-25-2	
Bromomethane	**<5.4**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	74-83-9	
2-Butanone (MEK)	**15.0J**	ug/kg	18.4	1	03/17/22 14:04	03/17/22 18:50	78-93-3	
n-Butylbenzene	**<1.2**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	104-51-8	
sec-Butylbenzene	**<1.3**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	135-98-8	
tert-Butylbenzene	**<1.6**	ug/kg	45.9	1	03/17/22 14:04	03/17/22 18:50	98-06-6	
Carbon disulfide	**<1.2**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	75-15-0	
Carbon tetrachloride	**<1.6**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	56-23-5	
Chlorobenzene	**<1.2**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	108-90-7	
Chloroethane	**<2.8**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	75-00-3	
Chloroform	**<0.91**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	67-66-3	
Chloromethane	**<1.5**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	74-87-3	
2-Chlorotoluene	**<1.3**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	95-49-8	
4-Chlorotoluene	**<1.1**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	106-43-4	
1,2-Dibromo-3-chloropropane	**<3.4**	ug/kg	18.4	1	03/17/22 14:04	03/17/22 18:50	96-12-8	
Dibromochloromethane	**<1.2**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	124-48-1	
1,2-Dibromoethane (EDB)	**<0.98**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	106-93-4	
Dibromomethane	**<1.1**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	74-95-3	
1,2-Dichlorobenzene	**<1.1**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	95-50-1	
1,3-Dichlorobenzene	**<1.3**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	541-73-1	
1,4-Dichlorobenzene	**<1.5**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	106-46-7	
Dichlorodifluoromethane	**<2.2**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	75-71-8	
1,1-Dichloroethane	**<0.72**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	75-34-3	
1,2-Dichloroethane	**<0.73**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	107-06-2	
1,2-Dichloroethene (Total)	**<2.0**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	540-59-0	
1,1-Dichloroethene	**<1.2**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	75-35-4	
cis-1,2-Dichloroethene	**1.5J**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	156-59-2	
trans-1,2-Dichloroethene	**<1.2**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SED-1 **Lab ID: 60395120011** Collected: 03/09/22 15:40 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030							
	Pace Analytical Services - Kansas City							
1,2-Dichloropropane	**<1.8**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	78-87-5	
1,3-Dichloropropane	**<1.3**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	142-28-9	
2,2-Dichloropropane	**<0.87**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	594-20-7	
1,1-Dichloropropene	**<1.7**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	563-58-6	
cis-1,3-Dichloropropene	**<0.98**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	10061-01-5	
trans-1,3-Dichloropropene	**<0.84**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	10061-02-6	
Ethylbenzene	**<0.85**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	100-41-4	
Hexachloro-1,3-butadiene	**<1.6**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	87-68-3	
2-Hexanone	**<4.6**	ug/kg	36.7	1	03/17/22 14:04	03/17/22 18:50	591-78-6	
Isopropylbenzene (Cumene)	**<1.0**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	98-82-8	
p-Isopropyltoluene	**<1.3**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	99-87-6	
Methylene Chloride	**<5.0**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.6**	ug/kg	18.4	1	03/17/22 14:04	03/17/22 18:50	108-10-1	
Methyl-tert-butyl ether	**<0.88**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	1634-04-4	
Naphthalene	**<1.5**	ug/kg	18.4	1	03/17/22 14:04	03/17/22 18:50	91-20-3	
n-Propylbenzene	**<1.5**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	103-65-1	
Styrene	**<1.1**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.9**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.8**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	79-34-5	
Tetrachloroethene	**<0.76**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	127-18-4	
Toluene	**<0.65**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	108-88-3	
1,2,3-Trichlorobenzene	**<1.5**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	87-61-6	
1,2,4-Trichlorobenzene	**9.6**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	120-82-1	B
1,1,1-Trichloroethane	**<1.4**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	71-55-6	
1,1,2-Trichloroethane	**<1.2**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	79-00-5	
Trichloroethene	**<1.3**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	79-01-6	
Trichlorofluoromethane	**<1.1**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	75-69-4	
1,2,3-Trichloropropane	**<3.9**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	96-18-4	
1,2,4-Trimethylbenzene	**<1.2**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	95-63-6	
1,3,5-Trimethylbenzene	**<1.2**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	108-67-8	
Vinyl chloride	**<1.2**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	75-01-4	
Xylene (Total)	**<2.1**	ug/kg	9.2	1	03/17/22 14:04	03/17/22 18:50	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	80-120	1	03/17/22 14:04	03/17/22 18:50	2037-26-5	
4-Bromofluorobenzene (S)	111	%	80-120	1	03/17/22 14:04	03/17/22 18:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	03/17/22 14:04	03/17/22 18:50	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**45.9**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SW-2 **Lab ID: 60395120012** Collected: 03/09/22 15:50 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
	Pace Analytical Services - Kansas City							
Acetone	**<2.5**	ug/L	10.0	1		03/18/22 17:31	67-64-1	
Benzene	**<0.14**	ug/L	1.0	1		03/18/22 17:31	71-43-2	
Bromobenzene	**<0.088**	ug/L	1.0	1		03/18/22 17:31	108-86-1	
Bromochloromethane	**<0.20**	ug/L	1.0	1		03/18/22 17:31	74-97-5	
Bromodichloromethane	**<0.16**	ug/L	1.0	1		03/18/22 17:31	75-27-4	
Bromoform	**<0.68**	ug/L	1.0	1		03/18/22 17:31	75-25-2	
Bromomethane	**<0.46**	ug/L	5.0	1		03/18/22 17:31	74-83-9	
2-Butanone (MEK)	**<0.98**	ug/L	10.0	1		03/18/22 17:31	78-93-3	
n-Butylbenzene	**<0.15**	ug/L	1.0	1		03/18/22 17:31	104-51-8	
sec-Butylbenzene	**<0.11**	ug/L	1.0	1		03/18/22 17:31	135-98-8	
tert-Butylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:31	98-06-6	
Carbon disulfide	**<0.98**	ug/L	5.0	1		03/18/22 17:31	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	1		03/18/22 17:31	56-23-5	
Chlorobenzene	**<0.089**	ug/L	1.0	1		03/18/22 17:31	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	1		03/18/22 17:31	75-00-3	
Chloroform	**<0.22**	ug/L	1.0	1		03/18/22 17:31	67-66-3	
Chloromethane	**<0.28**	ug/L	1.0	1		03/18/22 17:31	74-87-3	
2-Chlorotoluene	**<0.11**	ug/L	1.0	1		03/18/22 17:31	95-49-8	
4-Chlorotoluene	**<0.15**	ug/L	1.0	1		03/18/22 17:31	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.78**	ug/L	2.5	1		03/18/22 17:31	96-12-8	
Dibromochloromethane	**<0.30**	ug/L	1.0	1		03/18/22 17:31	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	1		03/18/22 17:31	106-93-4	
Dibromomethane	**<0.11**	ug/L	1.0	1		03/18/22 17:31	74-95-3	
1,2-Dichlorobenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:31	95-50-1	
1,3-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 17:31	541-73-1	
1,4-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 17:31	106-46-7	
Dichlorodifluoromethane	**<0.20**	ug/L	1.0	1		03/18/22 17:31	75-71-8	
1,1-Dichloroethane	**0.16J**	ug/L	1.0	1		03/18/22 17:31	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	1.0	1		03/18/22 17:31	107-06-2	
1,2-Dichloroethene (Total)	**2.7**	ug/L	1.0	1		03/18/22 17:31	540-59-0	
1,1-Dichloroethene	**<0.22**	ug/L	1.0	1		03/18/22 17:31	75-35-4	
cis-1,2-Dichloroethene	**2.1**	ug/L	1.0	1		03/18/22 17:31	156-59-2	B
trans-1,2-Dichloroethene	**0.68J**	ug/L	1.0	1		03/18/22 17:31	156-60-5	
1,2-Dichloropropane	**<0.14**	ug/L	1.0	1		03/18/22 17:31	78-87-5	
1,3-Dichloropropane	**<0.10**	ug/L	1.0	1		03/18/22 17:31	142-28-9	
2,2-Dichloropropane	**<0.16**	ug/L	1.0	1		03/18/22 17:31	594-20-7	
1,1-Dichloropropene	**<0.14**	ug/L	1.0	1		03/18/22 17:31	563-58-6	
cis-1,3-Dichloropropene	**<0.078**	ug/L	1.0	1		03/18/22 17:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.18**	ug/L	1.0	1		03/18/22 17:31	10061-02-6	
Ethylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:31	100-41-4	
Hexachloro-1,3-butadiene	**<0.42**	ug/L	1.0	1		03/18/22 17:31	87-68-3	
2-Hexanone	**<1.1**	ug/L	10.0	1		03/18/22 17:31	591-78-6	
Isopropylbenzene (Cumene)	**<0.097**	ug/L	1.0	1		03/18/22 17:31	98-82-8	
p-Isopropyltoluene	**<0.13**	ug/L	1.0	1		03/18/22 17:31	99-87-6	
Methylene Chloride	**<0.39**	ug/L	1.0	1		03/18/22 17:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.74**	ug/L	10.0	1		03/18/22 17:31	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SW-2 **Lab ID: 60395120012** Collected: 03/09/22 15:50 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	1		03/18/22 17:31	1634-04-4	
Naphthalene	**<0.82**	ug/L	10.0	1		03/18/22 17:31	91-20-3	
n-Propylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:31	103-65-1	
Styrene	**<0.12**	ug/L	1.0	1		03/18/22 17:31	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.084**	ug/L	1.0	1		03/18/22 17:31	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/L	1.0	1		03/18/22 17:31	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.0	1		03/18/22 17:31	127-18-4	
Toluene	**<0.25**	ug/L	1.0	1		03/18/22 17:31	108-88-3	
1,2,3-Trichlorobenzene	**<0.93**	ug/L	1.0	1		03/18/22 17:31	87-61-6	
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	1		03/18/22 17:31	120-82-1	
1,1,1-Trichloroethane	**<0.11**	ug/L	1.0	1		03/18/22 17:31	71-55-6	
1,1,2-Trichloroethane	**<0.14**	ug/L	1.0	1		03/18/22 17:31	79-00-5	
Trichloroethene	**0.64J**	ug/L	1.0	1		03/18/22 17:31	79-01-6	B
Trichlorofluoromethane	**<0.16**	ug/L	1.0	1		03/18/22 17:31	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	2.5	1		03/18/22 17:31	96-18-4	
1,2,4-Trimethylbenzene	**<0.32**	ug/L	1.0	1		03/18/22 17:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.090**	ug/L	1.0	1		03/18/22 17:31	108-67-8	
Vinyl chloride	**0.67J**	ug/L	1.0	1		03/18/22 17:31	75-01-4	
Xylene (Total)	**<0.28**	ug/L	3.0	1		03/18/22 17:31	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		03/18/22 17:31	460-00-4	
Toluene-d8 (S)	99	%	80-120	1		03/18/22 17:31	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		03/18/22 17:31	2199-69-1	
Preservation pH	**1.0**		0.10	1		03/18/22 17:31		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-31 **Lab ID: 60395120013** Collected: 03/09/22 16:00 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
Acetone	**<262**	ug/kg	1210	1	03/21/22 16:59	03/21/22 20:37	67-64-1	
Benzene	**<25.3**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	71-43-2	
Bromobenzene	**<36.3**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	108-86-1	
Bromochloromethane	**<32.2**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	74-97-5	
Bromodichloromethane	**<22.8**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	75-27-4	
Bromoform	**<18.2**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	75-25-2	
Bromomethane	**<176**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	74-83-9	
2-Butanone (MEK)	**384J**	ug/kg	603	1	03/21/22 16:59	03/21/22 20:37	78-93-3	L1
n-Butylbenzene	**1800**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	104-51-8	
sec-Butylbenzene	**1490**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	135-98-8	
tert-Butylbenzene	**39.7J**	ug/kg	1510	1	03/21/22 16:59	03/21/22 20:37	98-06-6	
Carbon disulfide	**<31.7**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	75-15-0	
Carbon tetrachloride	**<28.5**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	56-23-5	
Chlorobenzene	**<29.9**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	108-90-7	
Chloroethane	**<46.1**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	75-00-3	
Chloroform	**<24.2**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	67-66-3	
Chloromethane	**<73.6**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	74-87-3	
2-Chlorotoluene	**218J**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	95-49-8	
4-Chlorotoluene	**<42.6**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	106-43-4	
1,2-Dibromo-3-chloropropane	**<67.4**	ug/kg	603	1	03/21/22 16:59	03/21/22 20:37	96-12-8	
Dibromochloromethane	**<25.6**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	124-48-1	
1,2-Dibromoethane (EDB)	**<22.1**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	106-93-4	
Dibromomethane	**<30.8**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	74-95-3	
1,2-Dichlorobenzene	**<46.4**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	95-50-1	
1,3-Dichlorobenzene	**<45.5**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	541-73-1	
1,4-Dichlorobenzene	**<46.1**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	106-46-7	
Dichlorodifluoromethane	**<47.7**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	75-71-8	
1,1-Dichloroethane	**149J**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	75-34-3	
1,2-Dichloroethane	**<21.4**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	107-06-2	
1,2-Dichloroethene (Total)	**1250**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	540-59-0	
1,1-Dichloroethene	**<30.9**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	75-35-4	
cis-1,2-Dichloroethene	**1250**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	156-59-2	
trans-1,2-Dichloroethene	**<22.8**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	156-60-5	
1,2-Dichloropropane	**<22.4**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	78-87-5	
1,3-Dichloropropane	**<23.3**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	142-28-9	
2,2-Dichloropropane	**<24.4**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	594-20-7	
1,1-Dichloropropene	**<26.8**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	563-58-6	
cis-1,3-Dichloropropene	**<24.9**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	10061-01-5	
trans-1,3-Dichloropropene	**<21.6**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	10061-02-6	
Ethylbenzene	**246J**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	100-41-4	
Hexachloro-1,3-butadiene	**<76.7**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	87-68-3	
2-Hexanone	**<117**	ug/kg	1210	1	03/21/22 16:59	03/21/22 20:37	591-78-6	L1
Isopropylbenzene (Cumene)	**213J**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	98-82-8	
p-Isopropyltoluene	**<45.4**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	99-87-6	
Methylene Chloride	**<282**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-31 **Lab ID: 60395120013** Collected: 03/09/22 16:00 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**5300**	ug/kg	603	1	03/21/22 16:59	03/21/22 20:37	108-10-1	L1
Methyl-tert-butyl ether	**<30.0**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	1634-04-4	
Naphthalene	**<82.8**	ug/kg	603	1	03/21/22 16:59	03/21/22 20:37	91-20-3	
n-Propylbenzene	**828**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	103-65-1	
Styrene	**<51.2**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	100-42-5	
1,1,1,2-Tetrachloroethane	**<24.4**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	630-20-6	
1,1,2,2-Tetrachloroethane	**<25.6**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	79-34-5	
Tetrachloroethene	**<27.1**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	127-18-4	
Toluene	**61.4J**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	108-88-3	
1,2,3-Trichlorobenzene	**242J**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	87-61-6	
1,2,4-Trichlorobenzene	**<67.8**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	120-82-1	
1,1,1-Trichloroethane	**243J**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	71-55-6	
1,1,2-Trichloroethane	**<37.8**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	79-00-5	
Trichloroethene	**546**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	79-01-6	
Trichlorofluoromethane	**<31.7**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	75-69-4	
1,2,3-Trichloropropane	**<33.9**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	96-18-4	
1,2,4-Trimethylbenzene	**1530**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	95-63-6	
1,3,5-Trimethylbenzene	**649**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	108-67-8	
Vinyl chloride	**51.3J**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	75-01-4	
Xylene (Total)	**423**	ug/kg	302	1	03/21/22 16:59	03/21/22 20:37	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	80-120	1	03/21/22 16:59	03/21/22 20:37	2037-26-5	
4-Bromofluorobenzene (S)	110	%	83-119	1	03/21/22 16:59	03/21/22 20:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	80-120	1	03/21/22 16:59	03/21/22 20:37	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**19.8**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SED-2 **Lab ID: 60395120014** Collected: 03/09/22 16:05 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW	Analytical Method: EPA 8082 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
PCB-1016 (Aroclor 1016)	**<59.2**	ug/kg	238	1	03/16/22 14:27	03/21/22 09:20	12674-11-2	
PCB-1221 (Aroclor 1221)	**<56.8**	ug/kg	238	1	03/16/22 14:27	03/21/22 09:20	11104-28-2	
PCB-1232 (Aroclor 1232)	**<26.0**	ug/kg	238	1	03/16/22 14:27	03/21/22 09:20	11141-16-5	
PCB-1242 (Aroclor 1242)	**<57.4**	ug/kg	238	1	03/16/22 14:27	03/21/22 09:20	53469-21-9	
PCB-1248 (Aroclor 1248)	**<15.8**	ug/kg	238	1	03/16/22 14:27	03/21/22 09:20	12672-29-6	
PCB-1254 (Aroclor 1254)	**<22.3**	ug/kg	238	1	03/16/22 14:27	03/21/22 09:20	11097-69-1	
PCB-1260 (Aroclor 1260)	**<46.9**	ug/kg	238	1	03/16/22 14:27	03/21/22 09:20	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	62	%	35-120	1	03/16/22 14:27	03/21/22 09:20	2051-24-3	1e
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**<22.8**	ug/kg	28.1	1	03/17/22 14:04	03/17/22 19:06	67-64-1	
Benzene	**<0.69**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	71-43-2	
Bromobenzene	**<1.3**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	108-86-1	
Bromochloromethane	**<0.85**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	74-97-5	
Bromodichloromethane	**<0.85**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	75-27-4	
Bromoform	**<0.81**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	75-25-2	
Bromomethane	**<4.1**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	74-83-9	
2-Butanone (MEK)	**<4.8**	ug/kg	14.1	1	03/17/22 14:04	03/17/22 19:06	78-93-3	
n-Butylbenzene	**<0.91**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	104-51-8	
sec-Butylbenzene	**<1.0**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	135-98-8	
tert-Butylbenzene	**<1.2**	ug/kg	35.2	1	03/17/22 14:04	03/17/22 19:06	98-06-6	
Carbon disulfide	**<0.90**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	75-15-0	
Carbon tetrachloride	**<1.2**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	56-23-5	
Chlorobenzene	**<0.88**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	108-90-7	
Chloroethane	**<2.1**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	75-00-3	
Chloroform	**<0.69**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	67-66-3	
Chloromethane	**<1.1**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	74-87-3	
2-Chlorotoluene	**<1.0**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	95-49-8	
4-Chlorotoluene	**<0.84**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.6**	ug/kg	14.1	1	03/17/22 14:04	03/17/22 19:06	96-12-8	
Dibromochloromethane	**<0.91**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	124-48-1	
1,2-Dibromoethane (EDB)	**<0.75**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	106-93-4	
Dibromomethane	**<0.84**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	74-95-3	
1,2-Dichlorobenzene	**<0.88**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	106-46-7	
Dichlorodifluoromethane	**<1.7**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	75-71-8	
1,1-Dichloroethane	**<0.55**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	75-34-3	
1,2-Dichloroethane	**<0.56**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	107-06-2	
1,2-Dichloroethene (Total)	**<1.6**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	540-59-0	
1,1-Dichloroethene	**<0.90**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	75-35-4	
cis-1,2-Dichloroethene	**<0.61**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	156-59-2	
trans-1,2-Dichloroethene	**<0.95**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SED-2 **Lab ID: 60395120014** Collected: 03/09/22 16:05 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030							
	Pace Analytical Services - Kansas City							
1,2-Dichloropropane	**<1.4**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	78-87-5	
1,3-Dichloropropane	**<0.97**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	142-28-9	
2,2-Dichloropropane	**<0.67**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	594-20-7	
1,1-Dichloropropene	**<1.3**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	563-58-6	
cis-1,3-Dichloropropene	**<0.75**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	10061-01-5	
trans-1,3-Dichloropropene	**<0.64**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	10061-02-6	
Ethylbenzene	**<0.65**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	87-68-3	
2-Hexanone	**<3.5**	ug/kg	28.1	1	03/17/22 14:04	03/17/22 19:06	591-78-6	
Isopropylbenzene (Cumene)	**<0.80**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	98-82-8	
p-Isopropyltoluene	**<0.97**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	99-87-6	
Methylene Chloride	**<3.9**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<4.3**	ug/kg	14.1	1	03/17/22 14:04	03/17/22 19:06	108-10-1	
Methyl-tert-butyl ether	**<0.68**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	1634-04-4	
Naphthalene	**<1.2**	ug/kg	14.1	1	03/17/22 14:04	03/17/22 19:06	91-20-3	
n-Propylbenzene	**<1.1**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	103-65-1	
Styrene	**<0.83**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.4**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.4**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	79-34-5	
Tetrachloroethene	**<0.58**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	127-18-4	
Toluene	**<0.49**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	108-88-3	
1,2,3-Trichlorobenzene	**<1.1**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	87-61-6	
1,2,4-Trichlorobenzene	**<1.1**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	120-82-1	
1,1,1-Trichloroethane	**<1.1**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	71-55-6	
1,1,2-Trichloroethane	**<0.89**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	79-00-5	
Trichloroethene	**<1.0**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	79-01-6	
Trichlorofluoromethane	**<0.86**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	75-69-4	
1,2,3-Trichloropropane	**<3.0**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	96-18-4	
1,2,4-Trimethylbenzene	**<0.94**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.88**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	108-67-8	
Vinyl chloride	**<0.94**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	75-01-4	
Xylene (Total)	**<1.6**	ug/kg	7.0	1	03/17/22 14:04	03/17/22 19:06	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	80-120	1	03/17/22 14:04	03/17/22 19:06	2037-26-5	
4-Bromofluorobenzene (S)	107	%	80-120	1	03/17/22 14:04	03/17/22 19:06	460-00-4	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	03/17/22 14:04	03/17/22 19:06	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**29.6**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-32 **Lab ID: 60395120015** Collected: 03/09/22 16:15 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**57.0**	ug/kg	19.6	1	03/19/22 14:51	03/19/22 21:15	67-64-1	
Benzene	**1.6J**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	71-43-2	
Bromobenzene	**<0.92**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	108-86-1	
Bromochloromethane	**<0.59**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	74-97-5	
Bromodichloromethane	**<0.59**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	75-27-4	
Bromoform	**<0.56**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	75-25-2	
Bromomethane	**<2.9**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	74-83-9	
2-Butanone (MEK)	**18.5**	ug/kg	9.8	1	03/19/22 14:51	03/19/22 21:15	78-93-3	
n-Butylbenzene	**2.9J**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	104-51-8	
sec-Butylbenzene	**4.5J**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	135-98-8	
tert-Butylbenzene	**<0.87**	ug/kg	24.5	1	03/19/22 14:51	03/19/22 21:15	98-06-6	
Carbon disulfide	**0.89J**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	75-15-0	
Carbon tetrachloride	**<0.84**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	56-23-5	
Chlorobenzene	**<0.62**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	108-90-7	
Chloroethane	**8.6**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	75-00-3	
Chloroform	**<0.48**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	67-66-3	
Chloromethane	**<0.78**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	74-87-3	
2-Chlorotoluene	**<0.71**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	95-49-8	
4-Chlorotoluene	**<0.59**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/kg	9.8	1	03/19/22 14:51	03/19/22 21:15	96-12-8	
Dibromochloromethane	**<0.63**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	124-48-1	
1,2-Dibromoethane (EDB)	**<0.53**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	106-93-4	
Dibromomethane	**<0.59**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	74-95-3	
1,2-Dichlorobenzene	**<0.61**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	95-50-1	
1,3-Dichlorobenzene	**<0.71**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	541-73-1	
1,4-Dichlorobenzene	**<0.79**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	106-46-7	
Dichlorodifluoromethane	**<1.2**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	75-71-8	
1,1-Dichloroethane	**124**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	107-06-2	
1,1-Dichloroethene	**1.7J**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	75-35-4	
trans-1,2-Dichloroethene	**4.3J**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	156-60-5	
1,2-Dichloropropane	**<0.96**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	78-87-5	
1,3-Dichloropropane	**<0.68**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	142-28-9	
2,2-Dichloropropane	**<0.47**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	594-20-7	
1,1-Dichloropropene	**<0.88**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	563-58-6	
cis-1,3-Dichloropropene	**<0.52**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	10061-01-5	
trans-1,3-Dichloropropene	**<0.45**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	10061-02-6	
Ethylbenzene	**33.5**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	100-41-4	
Hexachloro-1,3-butadiene	**<0.84**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	87-68-3	
2-Hexanone	**<2.4**	ug/kg	19.6	1	03/19/22 14:51	03/19/22 21:15	591-78-6	
Isopropylbenzene (Cumene)	**4.3J**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	98-82-8	
p-Isopropyltoluene	**1.8J**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	99-87-6	
Methylene Chloride	**<2.7**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<3.0**	ug/kg	9.8	1	03/19/22 14:51	03/19/22 21:15	108-10-1	
Methyl-tert-butyl ether	**<0.47**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	1634-04-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-32 **Lab ID: 60395120015** Collected: 03/09/22 16:15 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Naphthalene	**7.6J**	ug/kg	9.8	1	03/19/22 14:51	03/19/22 21:15	91-20-3	
n-Propylbenzene	**10.7**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	103-65-1	
Styrene	**<0.58**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	630-20-6	
1,1,2,2-Tetrachloroethane	**9.2**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	79-34-5	
Tetrachloroethene	**0.94J**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	127-18-4	
Toluene	**18.0**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	108-88-3	
1,2,3-Trichlorobenzene	**<0.78**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	87-61-6	
1,2,4-Trichlorobenzene	**<0.78**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	120-82-1	
1,1,1-Trichloroethane	**1.5J**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	71-55-6	
1,1,2-Trichloroethane	**<0.62**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	79-00-5	
Trichloroethene	**16.7**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	79-01-6	
Trichlorofluoromethane	**<0.60**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	75-69-4	
1,2,3-Trichloropropane	**<2.1**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	96-18-4	
1,2,4-Trimethylbenzene	**22.8**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	95-63-6	
1,3,5-Trimethylbenzene	**7.1**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	108-67-8	
Vinyl chloride	**67.2**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	75-01-4	
Xylene (Total)	**190**	ug/kg	4.9	1	03/19/22 14:51	03/19/22 21:15	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	80-120	1	03/19/22 14:51	03/19/22 21:15	2037-26-5	
4-Bromofluorobenzene (S)	104	%	80-120	1	03/19/22 14:51	03/19/22 21:15	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	03/19/22 14:51	03/19/22 21:15	2199-69-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
cis-1,2-Dichloroethene	**3170**	ug/kg	328	1	03/22/22 10:58	03/22/22 11:56	156-59-2	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1	03/22/22 10:58	03/22/22 11:56	2037-26-5	
4-Bromofluorobenzene (S)	105	%	83-119	1	03/22/22 10:58	03/22/22 11:56	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	03/22/22 10:58	03/22/22 11:56	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**20.1**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-33 **Lab ID: 60395120016** Collected: 03/09/22 16:20 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**56.8**	ug/kg	20.3	1	03/19/22 14:51	03/19/22 21:32	67-64-1	
Benzene	**0.96J**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	71-43-2	
Bromobenzene	**<0.95**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	108-86-1	
Bromochloromethane	**<0.61**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	74-97-5	
Bromodichloromethane	**<0.61**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	75-27-4	
Bromoform	**<0.58**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	75-25-2	
Bromomethane	**<3.0**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	74-83-9	
2-Butanone (MEK)	**22.9**	ug/kg	10.2	1	03/19/22 14:51	03/19/22 21:32	78-93-3	
n-Butylbenzene	**<0.66**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	104-51-8	
sec-Butylbenzene	**<0.74**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	135-98-8	
tert-Butylbenzene	**<0.90**	ug/kg	25.4	1	03/19/22 14:51	03/19/22 21:32	98-06-6	
Carbon disulfide	**1.3J**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	75-15-0	
Carbon tetrachloride	**<0.87**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	56-23-5	
Chlorobenzene	**<0.64**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	108-90-7	
Chloroethane	**<1.5**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	75-00-3	
Chloroform	**<0.50**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	67-66-3	
Chloromethane	**<0.81**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	74-87-3	
2-Chlorotoluene	**<0.74**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	95-49-8	
4-Chlorotoluene	**<0.61**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.9**	ug/kg	10.2	1	03/19/22 14:51	03/19/22 21:32	96-12-8	
Dibromochloromethane	**<0.66**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	124-48-1	
1,2-Dibromoethane (EDB)	**<0.54**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	106-93-4	
Dibromomethane	**<0.61**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	74-95-3	
1,2-Dichlorobenzene	**<0.64**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	95-50-1	
1,3-Dichlorobenzene	**<0.73**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	541-73-1	
1,4-Dichlorobenzene	**<0.82**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	106-46-7	
Dichlorodifluoromethane	**<1.2**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	75-71-8	
1,1-Dichloroethane	**48.0**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	75-34-3	
1,2-Dichloroethane	**<0.41**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	107-06-2	
1,2-Dichloroethene (Total)	**8.8**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	540-59-0	
1,1-Dichloroethene	**17.2**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	75-35-4	
cis-1,2-Dichloroethene	**8.8**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	156-59-2	
trans-1,2-Dichloroethene	**<0.69**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	156-60-5	
1,2-Dichloropropane	**<0.99**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	78-87-5	
1,3-Dichloropropane	**<0.70**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	594-20-7	
1,1-Dichloropropene	**<0.91**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	563-58-6	
cis-1,3-Dichloropropene	**<0.54**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	10061-02-6	
Ethylbenzene	**0.55J**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	100-41-4	
Hexachloro-1,3-butadiene	**<0.86**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	87-68-3	
2-Hexanone	**<2.5**	ug/kg	20.3	1	03/19/22 14:51	03/19/22 21:32	591-78-6	
Isopropylbenzene (Cumene)	**<0.58**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	98-82-8	
p-Isopropyltoluene	**<0.70**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	99-87-6	
Methylene Chloride	**<2.8**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-33 **Lab ID: 60395120016** Collected: 03/09/22 16:20 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**<3.1**	ug/kg	10.2	1	03/19/22 14:51	03/19/22 21:32	108-10-1	
Methyl-tert-butyl ether	**<0.49**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	1634-04-4	
Naphthalene	**<0.83**	ug/kg	10.2	1	03/19/22 14:51	03/19/22 21:32	91-20-3	
n-Propylbenzene	**<0.82**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	103-65-1	
Styrene	**<0.60**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	79-34-5	
Tetrachloroethene	**13.6**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	127-18-4	
Toluene	**1.2J**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	108-88-3	
1,2,3-Trichlorobenzene	**<0.81**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	87-61-6	
1,2,4-Trichlorobenzene	**<0.81**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	120-82-1	
1,1,1-Trichloroethane	**47.6**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	71-55-6	
1,1,2-Trichloroethane	**<0.64**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	79-00-5	
Trichlorofluoromethane	**<0.62**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	75-69-4	
1,2,3-Trichloropropane	**<2.2**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	96-18-4	
1,2,4-Trimethylbenzene	**<0.68**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	95-63-6	
1,3,5-Trimethylbenzene	**<0.64**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	108-67-8	
Vinyl chloride	**<0.68**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	75-01-4	
Xylene (Total)	**<1.2**	ug/kg	5.1	1	03/19/22 14:51	03/19/22 21:32	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	80-120	1	03/19/22 14:51	03/19/22 21:32	2037-26-5	
4-Bromofluorobenzene (S)	107	%	80-120	1	03/19/22 14:51	03/19/22 21:32	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	80-120	1	03/19/22 14:51	03/19/22 21:32	2199-69-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
Trichloroethene	**3440**	ug/kg	289	1	03/22/22 10:58	03/22/22 12:12	79-01-6	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1	03/22/22 10:58	03/22/22 12:12	2037-26-5	
4-Bromofluorobenzene (S)	108	%	83-119	1	03/22/22 10:58	03/22/22 12:12	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	03/22/22 10:58	03/22/22 12:12	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**17.9**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SW-3 **Lab ID: 60395120017** Collected: 03/09/22 16:35 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	**3.7J**	ug/L	10.0	1		03/18/22 17:16	67-64-1	
Benzene	**0.31J**	ug/L	1.0	1		03/18/22 17:16	71-43-2	
Bromobenzene	**<0.088**	ug/L	1.0	1		03/18/22 17:16	108-86-1	
Bromochloromethane	**<0.20**	ug/L	1.0	1		03/18/22 17:16	74-97-5	
Bromodichloromethane	**<0.16**	ug/L	1.0	1		03/18/22 17:16	75-27-4	
Bromoform	**<0.68**	ug/L	1.0	1		03/18/22 17:16	75-25-2	
Bromomethane	**<0.46**	ug/L	5.0	1		03/18/22 17:16	74-83-9	
2-Butanone (MEK)	**<0.98**	ug/L	10.0	1		03/18/22 17:16	78-93-3	
n-Butylbenzene	**<0.15**	ug/L	1.0	1		03/18/22 17:16	104-51-8	
sec-Butylbenzene	**<0.11**	ug/L	1.0	1		03/18/22 17:16	135-98-8	
tert-Butylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:16	98-06-6	
Carbon disulfide	**<0.98**	ug/L	5.0	1		03/18/22 17:16	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	1		03/18/22 17:16	56-23-5	
Chlorobenzene	**<0.089**	ug/L	1.0	1		03/18/22 17:16	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	1		03/18/22 17:16	75-00-3	
Chloroform	**<0.22**	ug/L	1.0	1		03/18/22 17:16	67-66-3	
Chloromethane	**<0.28**	ug/L	1.0	1		03/18/22 17:16	74-87-3	
2-Chlorotoluene	**<0.11**	ug/L	1.0	1		03/18/22 17:16	95-49-8	
4-Chlorotoluene	**<0.15**	ug/L	1.0	1		03/18/22 17:16	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.78**	ug/L	2.5	1		03/18/22 17:16	96-12-8	
Dibromochloromethane	**<0.30**	ug/L	1.0	1		03/18/22 17:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	1		03/18/22 17:16	106-93-4	
Dibromomethane	**<0.11**	ug/L	1.0	1		03/18/22 17:16	74-95-3	
1,2-Dichlorobenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:16	95-50-1	
1,3-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 17:16	541-73-1	
1,4-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 17:16	106-46-7	
Dichlorodifluoromethane	**<0.20**	ug/L	1.0	1		03/18/22 17:16	75-71-8	
1,1-Dichloroethane	**1.0**	ug/L	1.0	1		03/18/22 17:16	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	1.0	1		03/18/22 17:16	107-06-2	
1,2-Dichloroethene (Total)	**33.6**	ug/L	1.0	1		03/18/22 17:16	540-59-0	
1,1-Dichloroethene	**<0.22**	ug/L	1.0	1		03/18/22 17:16	75-35-4	
cis-1,2-Dichloroethene	**30.4**	ug/L	1.0	1		03/18/22 17:16	156-59-2	
trans-1,2-Dichloroethene	**3.3**	ug/L	1.0	1		03/18/22 17:16	156-60-5	
1,2-Dichloropropane	**<0.14**	ug/L	1.0	1		03/18/22 17:16	78-87-5	
1,3-Dichloropropane	**<0.10**	ug/L	1.0	1		03/18/22 17:16	142-28-9	
2,2-Dichloropropane	**<0.16**	ug/L	1.0	1		03/18/22 17:16	594-20-7	
1,1-Dichloropropene	**<0.14**	ug/L	1.0	1		03/18/22 17:16	563-58-6	
cis-1,3-Dichloropropene	**<0.078**	ug/L	1.0	1		03/18/22 17:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.18**	ug/L	1.0	1		03/18/22 17:16	10061-02-6	
Ethylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:16	100-41-4	
Hexachloro-1,3-butadiene	**<0.42**	ug/L	1.0	1		03/18/22 17:16	87-68-3	
2-Hexanone	**<1.1**	ug/L	10.0	1		03/18/22 17:16	591-78-6	
Isopropylbenzene (Cumene)	**<0.097**	ug/L	1.0	1		03/18/22 17:16	98-82-8	
p-Isopropyltoluene	**<0.13**	ug/L	1.0	1		03/18/22 17:16	99-87-6	
Methylene Chloride	**<0.39**	ug/L	1.0	1		03/18/22 17:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.74**	ug/L	10.0	1		03/18/22 17:16	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SW-3 **Lab ID: 60395120017** Collected: 03/09/22 16:35 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	1		03/18/22 17:16	1634-04-4	
Naphthalene	**<0.82**	ug/L	10.0	1		03/18/22 17:16	91-20-3	
n-Propylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:16	103-65-1	
Styrene	**<0.12**	ug/L	1.0	1		03/18/22 17:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.084**	ug/L	1.0	1		03/18/22 17:16	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/L	1.0	1		03/18/22 17:16	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.0	1		03/18/22 17:16	127-18-4	
Toluene	**<0.25**	ug/L	1.0	1		03/18/22 17:16	108-88-3	
1,2,3-Trichlorobenzene	**<0.93**	ug/L	1.0	1		03/18/22 17:16	87-61-6	
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	1		03/18/22 17:16	120-82-1	
1,1,1-Trichloroethane	**<0.11**	ug/L	1.0	1		03/18/22 17:16	71-55-6	
1,1,2-Trichloroethane	**<0.14**	ug/L	1.0	1		03/18/22 17:16	79-00-5	
Trichloroethene	**2.4**	ug/L	1.0	1		03/18/22 17:16	79-01-6	B
Trichlorofluoromethane	**<0.16**	ug/L	1.0	1		03/18/22 17:16	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	2.5	1		03/18/22 17:16	96-18-4	
1,2,4-Trimethylbenzene	**<0.32**	ug/L	1.0	1		03/18/22 17:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.090**	ug/L	1.0	1		03/18/22 17:16	108-67-8	
Vinyl chloride	**9.8**	ug/L	1.0	1		03/18/22 17:16	75-01-4	
Xylene (Total)	**<0.28**	ug/L	3.0	1		03/18/22 17:16	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		03/18/22 17:16	460-00-4	
Toluene-d8 (S)	99	%	80-120	1		03/18/22 17:16	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		03/18/22 17:16	2199-69-1	
Preservation pH	**1.0**		0.10	1		03/18/22 17:16		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SED-3 **Lab ID: 60395120018** Collected: 03/09/22 16:40 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB SW	Analytical Method: EPA 8082 Preparation Method: EPA 3546 Pace Analytical Services - Kansas City							
PCB-1016 (Aroclor 1016)	**<3110**	ug/kg	12500	50	03/16/22 14:27	03/21/22 09:38	12674-11-2	
PCB-1221 (Aroclor 1221)	**<2980**	ug/kg	12500	50	03/16/22 14:27	03/21/22 09:38	11104-28-2	
PCB-1232 (Aroclor 1232)	**<1370**	ug/kg	12500	50	03/16/22 14:27	03/21/22 09:38	11141-16-5	
PCB-1242 (Aroclor 1242)	**162000**	ug/kg	12500	50	03/16/22 14:27	03/21/22 09:38	53469-21-9	
PCB-1248 (Aroclor 1248)	**<828**	ug/kg	12500	50	03/16/22 14:27	03/21/22 09:38	12672-29-6	
PCB-1254 (Aroclor 1254)	**<1170**	ug/kg	12500	50	03/16/22 14:27	03/21/22 09:38	11097-69-1	
PCB-1260 (Aroclor 1260)	**<2470**	ug/kg	12500	50	03/16/22 14:27	03/21/22 09:38	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	0	%	35-120	50	03/16/22 14:27	03/21/22 09:38	2051-24-3	1e,S4
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**25.1J**	ug/kg	26.4	1	03/17/22 14:04	03/17/22 19:22	67-64-1	
Benzene	**<0.65**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	71-43-2	
Bromobenzene	**<1.2**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	108-86-1	
Bromochloromethane	**<0.79**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	74-97-5	
Bromodichloromethane	**<0.79**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	75-27-4	
Bromoform	**<0.76**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	75-25-2	
Bromomethane	**<3.9**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	74-83-9	
2-Butanone (MEK)	**6.8J**	ug/kg	13.2	1	03/17/22 14:04	03/17/22 19:22	78-93-3	
n-Butylbenzene	**<0.86**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	104-51-8	
sec-Butylbenzene	**<0.97**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	135-98-8	
tert-Butylbenzene	**<1.2**	ug/kg	33.0	1	03/17/22 14:04	03/17/22 19:22	98-06-6	
Carbon disulfide	**<0.85**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	75-15-0	
Carbon tetrachloride	**<1.1**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	56-23-5	
Chlorobenzene	**<0.83**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	108-90-7	
Chloroethane	**<2.0**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	75-00-3	
Chloroform	**0.68J**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	67-66-3	
Chloromethane	**<1.1**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	74-87-3	
2-Chlorotoluene	**<0.96**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	95-49-8	
4-Chlorotoluene	**<0.79**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.4**	ug/kg	13.2	1	03/17/22 14:04	03/17/22 19:22	96-12-8	
Dibromochloromethane	**<0.85**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	124-48-1	
1,2-Dibromoethane (EDB)	**<0.71**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	106-93-4	
Dibromomethane	**<0.79**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	74-95-3	
1,2-Dichlorobenzene	**<0.83**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	95-50-1	
1,3-Dichlorobenzene	**<0.95**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	541-73-1	
1,4-Dichlorobenzene	**<1.1**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	106-46-7	
Dichlorodifluoromethane	**<1.6**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	75-71-8	
1,1-Dichloroethane	**<0.52**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	75-34-3	
1,2-Dichloroethane	**<0.53**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	107-06-2	
1,2-Dichloroethene (Total)	**11.2**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	540-59-0	
1,1-Dichloroethene	**<0.84**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	75-35-4	
cis-1,2-Dichloroethene	**9.4**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	156-59-2	
trans-1,2-Dichloroethene	**1.8J**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	156-60-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: SED-3 **Lab ID: 60395120018** Collected: 03/09/22 16:40 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030							
	Pace Analytical Services - Kansas City							
1,2-Dichloropropane	**<1.3**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	78-87-5	
1,3-Dichloropropane	**<0.91**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	142-28-9	
2,2-Dichloropropane	**<0.63**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	594-20-7	
1,1-Dichloropropene	**<1.2**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	563-58-6	
cis-1,3-Dichloropropene	**<0.70**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	10061-01-5	
trans-1,3-Dichloropropene	**<0.60**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	10061-02-6	
Ethylbenzene	**<0.61**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	100-41-4	
Hexachloro-1,3-butadiene	**<1.1**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	87-68-3	
2-Hexanone	**<3.3**	ug/kg	26.4	1	03/17/22 14:04	03/17/22 19:22	591-78-6	
Isopropylbenzene (Cumene)	**<0.75**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	98-82-8	
p-Isopropyltoluene	**<0.91**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	99-87-6	
Methylene Chloride	**<3.6**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<4.0**	ug/kg	13.2	1	03/17/22 14:04	03/17/22 19:22	108-10-1	
Methyl-tert-butyl ether	**<0.64**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	1634-04-4	
Naphthalene	**<1.1**	ug/kg	13.2	1	03/17/22 14:04	03/17/22 19:22	91-20-3	
n-Propylbenzene	**<1.1**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	103-65-1	
Styrene	**<0.78**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.3**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.3**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	79-34-5	
Tetrachloroethene	**<0.55**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	127-18-4	
Toluene	**<0.46**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	108-88-3	
1,2,3-Trichlorobenzene	**5.3J**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	87-61-6	B
1,2,4-Trichlorobenzene	**<1.1**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	120-82-1	
1,1,1-Trichloroethane	**<0.99**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	71-55-6	
1,1,2-Trichloroethane	**<0.83**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	79-00-5	
Trichloroethene	**<0.96**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	79-01-6	
Trichlorofluoromethane	**<0.81**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	75-69-4	
1,2,3-Trichloropropane	**<2.8**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	96-18-4	
1,2,4-Trimethylbenzene	**<0.88**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	95-63-6	
1,3,5-Trimethylbenzene	**<0.83**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	108-67-8	
Vinyl chloride	**<0.88**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	75-01-4	
Xylene (Total)	**<1.5**	ug/kg	6.6	1	03/17/22 14:04	03/17/22 19:22	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	80-120	1	03/17/22 14:04	03/17/22 19:22	2037-26-5	
4-Bromofluorobenzene (S)	116	%	80-120	1	03/17/22 14:04	03/17/22 19:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	03/17/22 14:04	03/17/22 19:22	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974							
	Pace Analytical Services - Kansas City							
Percent Moisture	**24.3**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-34 **Lab ID: 60395120019** Collected: 03/10/22 07:55 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**<14.7**	ug/kg	18.1	1	03/19/22 14:51	03/19/22 21:48	67-64-1	
Benzene	**1.1J**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	71-43-2	
Bromobenzene	**<0.85**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	108-86-1	
Bromochloromethane	**<0.54**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	74-97-5	
Bromodichloromethane	**<0.54**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	75-27-4	
Bromoform	**<0.52**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	75-25-2	
Bromomethane	**<2.7**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	74-83-9	
2-Butanone (MEK)	**3.6J**	ug/kg	9.1	1	03/19/22 14:51	03/19/22 21:48	78-93-3	
n-Butylbenzene	**<0.59**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	104-51-8	
sec-Butylbenzene	**<0.66**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	135-98-8	
tert-Butylbenzene	**<0.80**	ug/kg	22.7	1	03/19/22 14:51	03/19/22 21:48	98-06-6	
Carbon disulfide	**<0.58**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	75-15-0	
Carbon tetrachloride	**<0.78**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	56-23-5	
Chlorobenzene	**<0.57**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	108-90-7	
Chloroethane	**<1.4**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	75-00-3	
Chloroform	**<0.45**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	67-66-3	
Chloromethane	**<0.72**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	74-87-3	
2-Chlorotoluene	**<0.66**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	95-49-8	
4-Chlorotoluene	**<0.54**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/kg	9.1	1	03/19/22 14:51	03/19/22 21:48	96-12-8	
Dibromochloromethane	**<0.59**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	124-48-1	
1,2-Dibromoethane (EDB)	**<0.48**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	106-93-4	
Dibromomethane	**<0.54**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	74-95-3	
1,2-Dichlorobenzene	**<0.57**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	95-50-1	
1,3-Dichlorobenzene	**<0.65**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	541-73-1	
1,4-Dichlorobenzene	**<0.73**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	106-46-7	
Dichlorodifluoromethane	**<1.1**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	75-71-8	
1,1-Dichloroethane	**3.9J**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	75-34-3	
1,2-Dichloroethane	**<0.36**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	107-06-2	
1,2-Dichloroethene (Total)	**5.6**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	540-59-0	
1,1-Dichloroethene	**21.4**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	75-35-4	
cis-1,2-Dichloroethene	**5.6**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	156-59-2	
trans-1,2-Dichloroethene	**<0.62**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	156-60-5	
1,2-Dichloropropane	**<0.89**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	78-87-5	
1,3-Dichloropropane	**<0.63**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	142-28-9	
2,2-Dichloropropane	**<0.43**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	594-20-7	
1,1-Dichloropropene	**<0.81**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	563-58-6	
cis-1,3-Dichloropropene	**<0.48**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	10061-01-5	
trans-1,3-Dichloropropene	**<0.41**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	10061-02-6	
Ethylbenzene	**0.47J**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	100-41-4	
Hexachloro-1,3-butadiene	**<0.77**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	87-68-3	
2-Hexanone	**<2.3**	ug/kg	18.1	1	03/19/22 14:51	03/19/22 21:48	591-78-6	
Isopropylbenzene (Cumene)	**<0.52**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	98-82-8	
p-Isopropyltoluene	**<0.62**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	99-87-6	
Methylene Chloride	**<2.5**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-34 **Lab ID: 60395120019** Collected: 03/10/22 07:55 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**<2.7**	ug/kg	9.1	1	03/19/22 14:51	03/19/22 21:48	108-10-1	
Methyl-tert-butyl ether	**<0.44**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	1634-04-4	
Naphthalene	**<0.74**	ug/kg	9.1	1	03/19/22 14:51	03/19/22 21:48	91-20-3	
n-Propylbenzene	**<0.73**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	103-65-1	
Styrene	**<0.53**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.92**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.91**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	79-34-5	
Tetrachloroethene	**15.5**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	127-18-4	
Toluene	**1.3J**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	108-88-3	
1,2,3-Trichlorobenzene	**<0.72**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	87-61-6	
1,2,4-Trichlorobenzene	**<0.72**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	120-82-1	
1,1,1-Trichloroethane	**201**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	71-55-6	
1,1,2-Trichloroethane	**<0.57**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	79-00-5	
Trichlorofluoromethane	**<0.56**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	75-69-4	
1,2,3-Trichloropropane	**<1.9**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	96-18-4	
1,2,4-Trimethylbenzene	**<0.61**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	95-63-6	
1,3,5-Trimethylbenzene	**<0.57**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	108-67-8	
Vinyl chloride	**<0.60**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	75-01-4	
Xylene (Total)	**<1.0**	ug/kg	4.5	1	03/19/22 14:51	03/19/22 21:48	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1	03/19/22 14:51	03/19/22 21:48	2037-26-5	
4-Bromofluorobenzene (S)	110	%	80-120	1	03/19/22 14:51	03/19/22 21:48	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	80-120	1	03/19/22 14:51	03/19/22 21:48	2199-69-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
Trichloroethene	**3410**	ug/kg	267	1	03/22/22 10:58	03/22/22 12:29	79-01-6	
Surrogates								
Toluene-d8 (S)	98	%	80-120	1	03/22/22 10:58	03/22/22 12:29	2037-26-5	
4-Bromofluorobenzene (S)	108	%	83-119	1	03/22/22 10:58	03/22/22 12:29	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	03/22/22 10:58	03/22/22 12:29	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**16.5**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-35 **Lab ID: 60395120020** Collected: 03/10/22 08:10 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
Acetone	**1250**	ug/kg	1180	1	03/21/22 16:59	03/21/22 20:54	67-64-1	
Benzene	**<24.7**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	71-43-2	
Bromobenzene	**<35.4**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	108-86-1	
Bromochloromethane	**<31.4**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	74-97-5	
Bromodichloromethane	**<22.2**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	75-27-4	
Bromoform	**<17.7**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	75-25-2	
Bromomethane	**<172**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	74-83-9	
2-Butanone (MEK)	**397J**	ug/kg	588	1	03/21/22 16:59	03/21/22 20:54	78-93-3	L1
n-Butylbenzene	**1640**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	104-51-8	
sec-Butylbenzene	**971**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	135-98-8	
tert-Butylbenzene	**54.5J**	ug/kg	1470	1	03/21/22 16:59	03/21/22 20:54	98-06-6	
Carbon disulfide	**<30.9**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	75-15-0	
Carbon tetrachloride	**<27.7**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	56-23-5	
Chlorobenzene	**<29.1**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	108-90-7	
Chloroethane	**60.4J**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	75-00-3	
Chloroform	**<23.6**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	67-66-3	
Chloromethane	**<71.7**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	74-87-3	
2-Chlorotoluene	**<32.6**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	95-49-8	
4-Chlorotoluene	**<41.5**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	106-43-4	
1,2-Dibromo-3-chloropropane	**<65.7**	ug/kg	588	1	03/21/22 16:59	03/21/22 20:54	96-12-8	
Dibromochloromethane	**<24.9**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	124-48-1	
1,2-Dibromoethane (EDB)	**<21.5**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	106-93-4	
Dibromomethane	**<30.0**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	74-95-3	
1,2-Dichlorobenzene	**701**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	95-50-1	
1,3-Dichlorobenzene	**<44.3**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	541-73-1	
1,4-Dichlorobenzene	**58.5J**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	106-46-7	
Dichlorodifluoromethane	**<46.4**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	75-71-8	
1,1-Dichloroethane	**1720**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	75-34-3	
1,2-Dichloroethane	**<20.8**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	107-06-2	
1,2-Dichloroethene (Total)	**6030**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	540-59-0	
1,1-Dichloroethene	**111J**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	75-35-4	
cis-1,2-Dichloroethene	**6030**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	156-59-2	
trans-1,2-Dichloroethene	**<22.2**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	156-60-5	
1,2-Dichloropropane	**<21.9**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	78-87-5	
1,3-Dichloropropane	**<22.7**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	142-28-9	
2,2-Dichloropropane	**<23.7**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	594-20-7	
1,1-Dichloropropene	**<26.1**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	563-58-6	
cis-1,3-Dichloropropene	**<24.2**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	10061-01-5	
trans-1,3-Dichloropropene	**<21.0**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	10061-02-6	
Ethylbenzene	**863**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	100-41-4	
Hexachloro-1,3-butadiene	**<74.7**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	87-68-3	
2-Hexanone	**<114**	ug/kg	1180	1	03/21/22 16:59	03/21/22 20:54	591-78-6	L1
Isopropylbenzene (Cumene)	**295**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	98-82-8	
p-Isopropyltoluene	**769**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	99-87-6	
Methylene Chloride	**<275**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-35 **Lab ID: 60395120020** Collected: 03/10/22 08:10 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**<108**	ug/kg	588	1	03/21/22 16:59	03/21/22 20:54	108-10-1	L1
Methyl-tert-butyl ether	**<29.3**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	1634-04-4	
Naphthalene	**646**	ug/kg	588	1	03/21/22 16:59	03/21/22 20:54	91-20-3	
n-Propylbenzene	**889**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	103-65-1	
Styrene	**<49.8**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	100-42-5	
1,1,1,2-Tetrachloroethane	**<23.7**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	630-20-6	
1,1,2,2-Tetrachloroethane	**<24.9**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	79-34-5	
Tetrachloroethene	**994**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	127-18-4	
Toluene	**24300**	ug/kg	1470	5	03/21/22 16:59	03/22/22 10:51	108-88-3	
1,2,3-Trichlorobenzene	**244J**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	87-61-6	
1,2,4-Trichlorobenzene	**291J**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	120-82-1	
1,1,1-Trichloroethane	**4570**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	71-55-6	
1,1,2-Trichloroethane	**<36.8**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	79-00-5	
Trichloroethene	**<25.7**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	79-01-6	
Trichlorofluoromethane	**<30.9**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	75-69-4	
1,2,3-Trichloropropane	**<33.0**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	96-18-4	
1,2,4-Trimethylbenzene	**6200**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	95-63-6	
1,3,5-Trimethylbenzene	**2010**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	108-67-8	
Vinyl chloride	**1450**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	75-01-4	
Xylene (Total)	**4910**	ug/kg	294	1	03/21/22 16:59	03/21/22 20:54	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1	03/21/22 16:59	03/21/22 20:54	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119	1	03/21/22 16:59	03/21/22 20:54	460-00-4	
1,2-Dichlorobenzene-d4 (S)	103	%	80-120	1	03/21/22 16:59	03/21/22 20:54	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**16.7**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
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ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-36 **Lab ID: 60395120021** Collected: 03/10/22 08:20 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
Acetone	**420J**	ug/kg	1090	1	03/21/22 16:59	03/21/22 21:10	67-64-1	
Benzene	**<23.0**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	71-43-2	
Bromobenzene	**<32.9**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	108-86-1	
Bromochloromethane	**<29.2**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	74-97-5	
Bromodichloromethane	**<20.7**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	75-27-4	
Bromoform	**<16.5**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	75-25-2	
Bromomethane	**<160**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	74-83-9	
2-Butanone (MEK)	**313J**	ug/kg	547	1	03/21/22 16:59	03/21/22 21:10	78-93-3	L1
n-Butylbenzene	**439**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	104-51-8	
sec-Butylbenzene	**286**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	135-98-8	
tert-Butylbenzene	**<34.8**	ug/kg	1370	1	03/21/22 16:59	03/21/22 21:10	98-06-6	
Carbon disulfide	**<28.8**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	75-15-0	
Carbon tetrachloride	**<25.8**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	56-23-5	
Chlorobenzene	**<27.1**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	108-90-7	
Chloroethane	**44.9J**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	75-00-3	
Chloroform	**<22.0**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	67-66-3	
Chloromethane	**<66.7**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	74-87-3	
2-Chlorotoluene	**212J**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	95-49-8	
4-Chlorotoluene	**<38.6**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	106-43-4	
1,2-Dibromo-3-chloropropane	**<61.2**	ug/kg	547	1	03/21/22 16:59	03/21/22 21:10	96-12-8	
Dibromochloromethane	**<23.2**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	124-48-1	
1,2-Dibromoethane (EDB)	**<20.0**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	106-93-4	
Dibromomethane	**<27.9**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	74-95-3	
1,2-Dichlorobenzene	**401**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	95-50-1	
1,3-Dichlorobenzene	**<41.3**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	541-73-1	
1,4-Dichlorobenzene	**<41.8**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	106-46-7	
Dichlorodifluoromethane	**<43.2**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	75-71-8	
1,1-Dichloroethane	**1810**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	75-34-3	
1,2-Dichloroethane	**<19.4**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	107-06-2	
1,2-Dichloroethene (Total)	**8230**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	540-59-0	
1,1-Dichloroethene	**378**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	75-35-4	
cis-1,2-Dichloroethene	**8230**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	156-59-2	
trans-1,2-Dichloroethene	**<20.7**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	156-60-5	
1,2-Dichloropropane	**<20.4**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	78-87-5	
1,3-Dichloropropane	**<21.1**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	142-28-9	
2,2-Dichloropropane	**<22.1**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	594-20-7	
1,1-Dichloropropene	**<24.3**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	563-58-6	
cis-1,3-Dichloropropene	**<22.5**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	10061-01-5	
trans-1,3-Dichloropropene	**<19.6**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	10061-02-6	
Ethylbenzene	**587**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	100-41-4	
Hexachloro-1,3-butadiene	**<69.6**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	87-68-3	
2-Hexanone	**<106**	ug/kg	1090	1	03/21/22 16:59	03/21/22 21:10	591-78-6	L1
Isopropylbenzene (Cumene)	**113J**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	98-82-8	
p-Isopropyltoluene	**218J**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	99-87-6	
Methylene Chloride	**<256**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-36 **Lab ID: 60395120021** Collected: 03/10/22 08:20 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**<100**	ug/kg	547	1	03/21/22 16:59	03/21/22 21:10	108-10-1	L1
Methyl-tert-butyl ether	**<27.2**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	1634-04-4	
Naphthalene	**521J**	ug/kg	547	1	03/21/22 16:59	03/21/22 21:10	91-20-3	
n-Propylbenzene	**329**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	103-65-1	
Styrene	**<46.4**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	100-42-5	
1,1,1,2-Tetrachloroethane	**<22.1**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	630-20-6	
1,1,2,2-Tetrachloroethane	**<23.2**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	79-34-5	
Tetrachloroethene	**1220**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	127-18-4	
Toluene	**49300**	ug/kg	2740	10	03/21/22 16:59	03/22/22 11:07	108-88-3	
1,2,3-Trichlorobenzene	**216J**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	87-61-6	
1,2,4-Trichlorobenzene	**265J**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	120-82-1	
1,1,1-Trichloroethane	**18600**	ug/kg	2740	10	03/21/22 16:59	03/22/22 11:07	71-55-6	
1,1,2-Trichloroethane	**<34.2**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	79-00-5	
Trichloroethene	**13400**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	79-01-6	
Trichlorofluoromethane	**<28.8**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	75-69-4	
1,2,3-Trichloropropane	**<30.7**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	96-18-4	
1,2,4-Trimethylbenzene	**2340**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	95-63-6	
1,3,5-Trimethylbenzene	**728**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	108-67-8	
Vinyl chloride	**480**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	75-01-4	
Xylene (Total)	**2980**	ug/kg	274	1	03/21/22 16:59	03/21/22 21:10	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1	03/21/22 16:59	03/21/22 21:10	2037-26-5	
4-Bromofluorobenzene (S)	104	%	83-119	1	03/21/22 16:59	03/21/22 21:10	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	03/21/22 16:59	03/21/22 21:10	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**15.8**	%	0.50	1		03/16/22 11:19		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-37 **Lab ID: 60395120022** Collected: 03/10/22 08:35 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
Acetone	**415J**	ug/kg	1220	1	03/21/22 16:59	03/21/22 21:26	67-64-1	
Benzene	**68.8J**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	71-43-2	
Bromobenzene	**<36.8**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	108-86-1	
Bromochloromethane	**<32.6**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	74-97-5	
Bromodichloromethane	**<23.1**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	75-27-4	
Bromoform	**<18.5**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	75-25-2	
Bromomethane	**<178**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	74-83-9	
2-Butanone (MEK)	**234J**	ug/kg	611	1	03/21/22 16:59	03/21/22 21:26	78-93-3	L1
n-Butylbenzene	**<55.7**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	104-51-8	
sec-Butylbenzene	**<46.5**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	135-98-8	
tert-Butylbenzene	**<38.9**	ug/kg	1530	1	03/21/22 16:59	03/21/22 21:26	98-06-6	
Carbon disulfide	**<32.1**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	75-15-0	
Carbon tetrachloride	**<28.8**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	56-23-5	
Chlorobenzene	**<30.3**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	108-90-7	
Chloroethane	**<46.7**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	75-00-3	
Chloroform	**<24.6**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	67-66-3	
Chloromethane	**<74.6**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	74-87-3	
2-Chlorotoluene	**<33.9**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	95-49-8	
4-Chlorotoluene	**<43.2**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	106-43-4	
1,2-Dibromo-3-chloropropane	**<68.3**	ug/kg	611	1	03/21/22 16:59	03/21/22 21:26	96-12-8	
Dibromochloromethane	**<25.9**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	124-48-1	
1,2-Dibromoethane (EDB)	**<22.4**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	106-93-4	
Dibromomethane	**<31.2**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	74-95-3	
1,2-Dichlorobenzene	**<47.1**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	95-50-1	
1,3-Dichlorobenzene	**<46.1**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	541-73-1	
1,4-Dichlorobenzene	**<46.7**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	106-46-7	
Dichlorodifluoromethane	**<48.3**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	75-71-8	
1,1-Dichloroethane	**1280**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	75-34-3	
1,2-Dichloroethane	**<21.6**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	107-06-2	
1,2-Dichloroethene (Total)	**57700**	ug/kg	1530	5	03/21/22 16:59	03/22/22 11:24	540-59-0	
1,1-Dichloroethene	**474**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	75-35-4	
cis-1,2-Dichloroethene	**57600**	ug/kg	1530	5	03/21/22 16:59	03/22/22 11:24	156-59-2	
trans-1,2-Dichloroethene	**89.4J**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	156-60-5	
1,2-Dichloropropane	**<22.7**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	78-87-5	
1,3-Dichloropropane	**<23.6**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	142-28-9	
2,2-Dichloropropane	**<24.7**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	594-20-7	
1,1-Dichloropropene	**<27.1**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	563-58-6	
cis-1,3-Dichloropropene	**<25.2**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	10061-01-5	
trans-1,3-Dichloropropene	**<21.9**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	10061-02-6	
Ethylbenzene	**57.4J**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	100-41-4	
Hexachloro-1,3-butadiene	**<77.7**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	87-68-3	
2-Hexanone	**<119**	ug/kg	1220	1	03/21/22 16:59	03/21/22 21:26	591-78-6	L1
Isopropylbenzene (Cumene)	**<42.7**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	98-82-8	
p-Isopropyltoluene	**<46.0**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	99-87-6	
Methylene Chloride	**<286**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-37 **Lab ID: 60395120022** Collected: 03/10/22 08:35 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**549J**	ug/kg	611	1	03/21/22 16:59	03/21/22 21:26	108-10-1	L1
Methyl-tert-butyl ether	**<30.4**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	1634-04-4	
Naphthalene	**<83.9**	ug/kg	611	1	03/21/22 16:59	03/21/22 21:26	91-20-3	
n-Propylbenzene	**<44.6**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	103-65-1	
Styrene	**<51.8**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	100-42-5	
1,1,1,2-Tetrachloroethane	**<24.7**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	630-20-6	
1,1,2,2-Tetrachloroethane	**<25.9**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	79-34-5	
Tetrachloroethene	**<27.5**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	127-18-4	
Toluene	**37400**	ug/kg	1530	5	03/21/22 16:59	03/22/22 11:24	108-88-3	
1,2,3-Trichlorobenzene	**<88.4**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	87-61-6	
1,2,4-Trichlorobenzene	**<68.7**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	120-82-1	
1,1,1-Trichloroethane	**<25.4**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	71-55-6	
1,1,2-Trichloroethane	**<38.3**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	79-00-5	
Trichloroethene	**4590**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	79-01-6	
Trichlorofluoromethane	**<32.1**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	75-69-4	
1,2,3-Trichloropropane	**<34.3**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	96-18-4	
1,2,4-Trimethylbenzene	**<36.1**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	95-63-6	
1,3,5-Trimethylbenzene	**<43.6**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	108-67-8	
Vinyl chloride	**4520**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	75-01-4	
Xylene (Total)	**254J**	ug/kg	306	1	03/21/22 16:59	03/21/22 21:26	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1	03/21/22 16:59	03/21/22 21:26	2037-26-5	
4-Bromofluorobenzene (S)	108	%	83-119	1	03/21/22 16:59	03/21/22 21:26	460-00-4	
1,2-Dichlorobenzene-d4 (S)	99	%	80-120	1	03/21/22 16:59	03/21/22 21:26	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**18.5**	%	0.50	1		03/16/22 11:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-38 **Lab ID: 60395120023** Collected: 03/10/22 08:50 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**28.3**	ug/kg	19.4	1	03/19/22 14:51	03/19/22 22:04	67-64-1	
Benzene	**1.3J**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	71-43-2	
Bromobenzene	**<0.91**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	108-86-1	
Bromochloromethane	**<0.58**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	74-97-5	
Bromodichloromethane	**<0.58**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	75-27-4	
Bromoform	**<0.56**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	75-25-2	
Bromomethane	**<2.9**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	74-83-9	
2-Butanone (MEK)	**8.4J**	ug/kg	9.7	1	03/19/22 14:51	03/19/22 22:04	78-93-3	
n-Butylbenzene	**<0.63**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	104-51-8	
sec-Butylbenzene	**<0.71**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	135-98-8	
tert-Butylbenzene	**<0.86**	ug/kg	24.2	1	03/19/22 14:51	03/19/22 22:04	98-06-6	
Carbon disulfide	**<0.62**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	75-15-0	
Carbon tetrachloride	**<0.83**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	56-23-5	
Chlorobenzene	**<0.61**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	108-90-7	
Chloroethane	**<1.5**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	75-00-3	
Chloroform	**<0.48**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	67-66-3	
Chloromethane	**<0.77**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	74-87-3	
2-Chlorotoluene	**<0.71**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	95-49-8	
4-Chlorotoluene	**<0.58**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/kg	9.7	1	03/19/22 14:51	03/19/22 22:04	96-12-8	
Dibromochloromethane	**<0.63**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	124-48-1	
1,2-Dibromoethane (EDB)	**<0.52**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	106-93-4	
Dibromomethane	**<0.58**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	74-95-3	
1,2-Dichlorobenzene	**<0.61**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	95-50-1	
1,3-Dichlorobenzene	**<0.70**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	541-73-1	
1,4-Dichlorobenzene	**<0.79**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	106-46-7	
Dichlorodifluoromethane	**<1.1**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	75-71-8	
1,1-Dichloroethane	**66.9**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	75-34-3	
1,2-Dichloroethane	**<0.39**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	107-06-2	
1,2-Dichloroethene (Total)	**96.3**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	540-59-0	
1,1-Dichloroethene	**35.5**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	75-35-4	
cis-1,2-Dichloroethene	**95.6**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	156-59-2	
trans-1,2-Dichloroethene	**0.74J**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	156-60-5	
1,2-Dichloropropane	**<0.95**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	78-87-5	
1,3-Dichloropropane	**<0.67**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	142-28-9	
2,2-Dichloropropane	**<0.46**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	594-20-7	
1,1-Dichloropropene	**<0.87**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	563-58-6	
cis-1,3-Dichloropropene	**<0.51**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	10061-01-5	
trans-1,3-Dichloropropene	**<0.44**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	10061-02-6	
Ethylbenzene	**0.54J**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	100-41-4	
Hexachloro-1,3-butadiene	**<0.83**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	87-68-3	
2-Hexanone	**<2.4**	ug/kg	19.4	1	03/19/22 14:51	03/19/22 22:04	591-78-6	
Isopropylbenzene (Cumene)	**<0.55**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	98-82-8	
p-Isopropyltoluene	**<0.67**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	99-87-6	
Methylene Chloride	**<2.7**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: DPT-38 **Lab ID: 60395120023** Collected: 03/10/22 08:50 Received: 03/11/22 11:15 Matrix: Solid

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

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**<2.9**	ug/kg	9.7	1	03/19/22 14:51	03/19/22 22:04	108-10-1	
Methyl-tert-butyl ether	**<0.47**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	1634-04-4	
Naphthalene	**<0.80**	ug/kg	9.7	1	03/19/22 14:51	03/19/22 22:04	91-20-3	
n-Propylbenzene	**<0.78**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	103-65-1	
Styrene	**<0.57**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.99**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.97**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	79-34-5	
Tetrachloroethene	**1.4J**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	127-18-4	
Toluene	**1.6J**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	87-61-6	
1,2,4-Trichlorobenzene	**<0.77**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	120-82-1	
1,1,1-Trichloroethane	**99.2**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	71-55-6	
1,1,2-Trichloroethane	**<0.61**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	79-00-5	
Trichlorofluoromethane	**<0.60**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	75-69-4	
1,2,3-Trichloropropane	**<2.1**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	96-18-4	
1,2,4-Trimethylbenzene	**<0.65**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.61**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	108-67-8	
Vinyl chloride	**<0.65**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	75-01-4	
Xylene (Total)	**<1.1**	ug/kg	4.8	1	03/19/22 14:51	03/19/22 22:04	1330-20-7	
Surrogates								
Toluene-d8 (S)	95	%	80-120	1	03/19/22 14:51	03/19/22 22:04	2037-26-5	
4-Bromofluorobenzene (S)	108	%	80-120	1	03/19/22 14:51	03/19/22 22:04	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120	1	03/19/22 14:51	03/19/22 22:04	2199-69-1	
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City							
Trichloroethene	**1950**	ug/kg	286	1	03/22/22 10:58	03/22/22 12:45	79-01-6	
Surrogates								
Toluene-d8 (S)	97	%	80-120	1	03/22/22 10:58	03/22/22 12:45	2037-26-5	
4-Bromofluorobenzene (S)	109	%	83-119	1	03/22/22 10:58	03/22/22 12:45	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	03/22/22 10:58	03/22/22 12:45	2199-69-1	
Percent Moisture	Analytical Method: ASTM D2974 Pace Analytical Services - Kansas City							
Percent Moisture	**18.7**	%	0.50	1		03/16/22 11:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: RINSATE **Lab ID: 60395120024** Collected: 03/10/22 09:15 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	**8.0J**	ug/L	10.0	1		03/18/22 17:02	67-64-1	
Benzene	**<0.14**	ug/L	1.0	1		03/18/22 17:02	71-43-2	
Bromobenzene	**<0.088**	ug/L	1.0	1		03/18/22 17:02	108-86-1	
Bromochloromethane	**<0.20**	ug/L	1.0	1		03/18/22 17:02	74-97-5	
Bromodichloromethane	**<0.16**	ug/L	1.0	1		03/18/22 17:02	75-27-4	
Bromoform	**<0.68**	ug/L	1.0	1		03/18/22 17:02	75-25-2	
Bromomethane	**<0.46**	ug/L	5.0	1		03/18/22 17:02	74-83-9	
2-Butanone (MEK)	**<0.98**	ug/L	10.0	1		03/18/22 17:02	78-93-3	
n-Butylbenzene	**<0.15**	ug/L	1.0	1		03/18/22 17:02	104-51-8	
sec-Butylbenzene	**<0.11**	ug/L	1.0	1		03/18/22 17:02	135-98-8	
tert-Butylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:02	98-06-6	
Carbon disulfide	**<0.98**	ug/L	5.0	1		03/18/22 17:02	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	1		03/18/22 17:02	56-23-5	
Chlorobenzene	**<0.089**	ug/L	1.0	1		03/18/22 17:02	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	1		03/18/22 17:02	75-00-3	
Chloroform	**<0.22**	ug/L	1.0	1		03/18/22 17:02	67-66-3	
Chloromethane	**<0.28**	ug/L	1.0	1		03/18/22 17:02	74-87-3	
2-Chlorotoluene	**<0.11**	ug/L	1.0	1		03/18/22 17:02	95-49-8	
4-Chlorotoluene	**<0.15**	ug/L	1.0	1		03/18/22 17:02	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.78**	ug/L	2.5	1		03/18/22 17:02	96-12-8	
Dibromochloromethane	**<0.30**	ug/L	1.0	1		03/18/22 17:02	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	1		03/18/22 17:02	106-93-4	
Dibromomethane	**<0.11**	ug/L	1.0	1		03/18/22 17:02	74-95-3	
1,2-Dichlorobenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:02	95-50-1	
1,3-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 17:02	541-73-1	
1,4-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 17:02	106-46-7	
Dichlorodifluoromethane	**<0.20**	ug/L	1.0	1		03/18/22 17:02	75-71-8	
1,1-Dichloroethane	**<0.12**	ug/L	1.0	1		03/18/22 17:02	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	1.0	1		03/18/22 17:02	107-06-2	
1,2-Dichloroethene (Total)	**0.46J**	ug/L	1.0	1		03/18/22 17:02	540-59-0	
1,1-Dichloroethene	**<0.22**	ug/L	1.0	1		03/18/22 17:02	75-35-4	
cis-1,2-Dichloroethene	**0.46J**	ug/L	1.0	1		03/18/22 17:02	156-59-2	B
trans-1,2-Dichloroethene	**<0.10**	ug/L	1.0	1		03/18/22 17:02	156-60-5	
1,2-Dichloropropane	**<0.14**	ug/L	1.0	1		03/18/22 17:02	78-87-5	
1,3-Dichloropropane	**<0.10**	ug/L	1.0	1		03/18/22 17:02	142-28-9	
2,2-Dichloropropane	**<0.16**	ug/L	1.0	1		03/18/22 17:02	594-20-7	
1,1-Dichloropropene	**<0.14**	ug/L	1.0	1		03/18/22 17:02	563-58-6	
cis-1,3-Dichloropropene	**<0.078**	ug/L	1.0	1		03/18/22 17:02	10061-01-5	
trans-1,3-Dichloropropene	**<0.18**	ug/L	1.0	1		03/18/22 17:02	10061-02-6	
Ethylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:02	100-41-4	
Hexachloro-1,3-butadiene	**<0.42**	ug/L	1.0	1		03/18/22 17:02	87-68-3	
2-Hexanone	**<1.1**	ug/L	10.0	1		03/18/22 17:02	591-78-6	
Isopropylbenzene (Cumene)	**<0.097**	ug/L	1.0	1		03/18/22 17:02	98-82-8	
p-Isopropyltoluene	**<0.13**	ug/L	1.0	1		03/18/22 17:02	99-87-6	
Methylene Chloride	**<0.39**	ug/L	1.0	1		03/18/22 17:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.74**	ug/L	10.0	1		03/18/22 17:02	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: RINSATE **Lab ID: 60395120024** Collected: 03/10/22 09:15 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	1		03/18/22 17:02	1634-04-4	
Naphthalene	**<0.82**	ug/L	10.0	1		03/18/22 17:02	91-20-3	
n-Propylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 17:02	103-65-1	
Styrene	**<0.12**	ug/L	1.0	1		03/18/22 17:02	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.084**	ug/L	1.0	1		03/18/22 17:02	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/L	1.0	1		03/18/22 17:02	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.0	1		03/18/22 17:02	127-18-4	
Toluene	**<0.25**	ug/L	1.0	1		03/18/22 17:02	108-88-3	
1,2,3-Trichlorobenzene	**<0.93**	ug/L	1.0	1		03/18/22 17:02	87-61-6	
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	1		03/18/22 17:02	120-82-1	
1,1,1-Trichloroethane	**<0.11**	ug/L	1.0	1		03/18/22 17:02	71-55-6	
1,1,2-Trichloroethane	**<0.14**	ug/L	1.0	1		03/18/22 17:02	79-00-5	
Trichloroethene	**0.55J**	ug/L	1.0	1		03/18/22 17:02	79-01-6	B
Trichlorofluoromethane	**<0.16**	ug/L	1.0	1		03/18/22 17:02	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	2.5	1		03/18/22 17:02	96-18-4	
1,2,4-Trimethylbenzene	**<0.32**	ug/L	1.0	1		03/18/22 17:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.090**	ug/L	1.0	1		03/18/22 17:02	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	1		03/18/22 17:02	75-01-4	
Xylene (Total)	**<0.28**	ug/L	3.0	1		03/18/22 17:02	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		03/18/22 17:02	460-00-4	
Toluene-d8 (S)	100	%	80-120	1		03/18/22 17:02	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1		03/18/22 17:02	2199-69-1	
Preservation pH	**1.0**		0.10	1		03/18/22 17:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: FIELD BLANK **Lab ID: 60395120025** Collected: 03/10/22 09:25 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	**5.5J**	ug/L	10.0	1		03/18/22 16:47	67-64-1	
Benzene	**<0.14**	ug/L	1.0	1		03/18/22 16:47	71-43-2	
Bromobenzene	**<0.088**	ug/L	1.0	1		03/18/22 16:47	108-86-1	
Bromochloromethane	**<0.20**	ug/L	1.0	1		03/18/22 16:47	74-97-5	
Bromodichloromethane	**<0.16**	ug/L	1.0	1		03/18/22 16:47	75-27-4	
Bromoform	**<0.68**	ug/L	1.0	1		03/18/22 16:47	75-25-2	
Bromomethane	**<0.46**	ug/L	5.0	1		03/18/22 16:47	74-83-9	
2-Butanone (MEK)	**<0.98**	ug/L	10.0	1		03/18/22 16:47	78-93-3	
n-Butylbenzene	**<0.15**	ug/L	1.0	1		03/18/22 16:47	104-51-8	
sec-Butylbenzene	**<0.11**	ug/L	1.0	1		03/18/22 16:47	135-98-8	
tert-Butylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 16:47	98-06-6	
Carbon disulfide	**<0.98**	ug/L	5.0	1		03/18/22 16:47	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	1		03/18/22 16:47	56-23-5	
Chlorobenzene	**<0.089**	ug/L	1.0	1		03/18/22 16:47	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	1		03/18/22 16:47	75-00-3	
Chloroform	**<0.22**	ug/L	1.0	1		03/18/22 16:47	67-66-3	
Chloromethane	**<0.28**	ug/L	1.0	1		03/18/22 16:47	74-87-3	
2-Chlorotoluene	**<0.11**	ug/L	1.0	1		03/18/22 16:47	95-49-8	
4-Chlorotoluene	**<0.15**	ug/L	1.0	1		03/18/22 16:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.78**	ug/L	2.5	1		03/18/22 16:47	96-12-8	
Dibromochloromethane	**<0.30**	ug/L	1.0	1		03/18/22 16:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	1		03/18/22 16:47	106-93-4	
Dibromomethane	**<0.11**	ug/L	1.0	1		03/18/22 16:47	74-95-3	
1,2-Dichlorobenzene	**<0.12**	ug/L	1.0	1		03/18/22 16:47	95-50-1	
1,3-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 16:47	541-73-1	
1,4-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 16:47	106-46-7	
Dichlorodifluoromethane	**<0.20**	ug/L	1.0	1		03/18/22 16:47	75-71-8	
1,1-Dichloroethane	**<0.12**	ug/L	1.0	1		03/18/22 16:47	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	1.0	1		03/18/22 16:47	107-06-2	
1,2-Dichloroethene (Total)	**0.53J**	ug/L	1.0	1		03/18/22 16:47	540-59-0	
1,1-Dichloroethene	**<0.22**	ug/L	1.0	1		03/18/22 16:47	75-35-4	
cis-1,2-Dichloroethene	**0.53J**	ug/L	1.0	1		03/18/22 16:47	156-59-2	B
trans-1,2-Dichloroethene	**<0.10**	ug/L	1.0	1		03/18/22 16:47	156-60-5	
1,2-Dichloropropane	**<0.14**	ug/L	1.0	1		03/18/22 16:47	78-87-5	
1,3-Dichloropropane	**<0.10**	ug/L	1.0	1		03/18/22 16:47	142-28-9	
2,2-Dichloropropane	**<0.16**	ug/L	1.0	1		03/18/22 16:47	594-20-7	
1,1-Dichloropropene	**<0.14**	ug/L	1.0	1		03/18/22 16:47	563-58-6	
cis-1,3-Dichloropropene	**<0.078**	ug/L	1.0	1		03/18/22 16:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.18**	ug/L	1.0	1		03/18/22 16:47	10061-02-6	
Ethylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 16:47	100-41-4	
Hexachloro-1,3-butadiene	**<0.42**	ug/L	1.0	1		03/18/22 16:47	87-68-3	
2-Hexanone	**<1.1**	ug/L	10.0	1		03/18/22 16:47	591-78-6	
Isopropylbenzene (Cumene)	**<0.097**	ug/L	1.0	1		03/18/22 16:47	98-82-8	
p-Isopropyltoluene	**<0.13**	ug/L	1.0	1		03/18/22 16:47	99-87-6	
Methylene Chloride	**<0.39**	ug/L	1.0	1		03/18/22 16:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.74**	ug/L	10.0	1		03/18/22 16:47	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
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ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: FIELD BLANK **Lab ID: 60395120025** Collected: 03/10/22 09:25 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	1		03/18/22 16:47	1634-04-4	
Naphthalene	**<0.82**	ug/L	10.0	1		03/18/22 16:47	91-20-3	
n-Propylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 16:47	103-65-1	
Styrene	**<0.12**	ug/L	1.0	1		03/18/22 16:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.084**	ug/L	1.0	1		03/18/22 16:47	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/L	1.0	1		03/18/22 16:47	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.0	1		03/18/22 16:47	127-18-4	
Toluene	**<0.25**	ug/L	1.0	1		03/18/22 16:47	108-88-3	
1,2,3-Trichlorobenzene	**<0.93**	ug/L	1.0	1		03/18/22 16:47	87-61-6	
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	1		03/18/22 16:47	120-82-1	
1,1,1-Trichloroethane	**<0.11**	ug/L	1.0	1		03/18/22 16:47	71-55-6	
1,1,2-Trichloroethane	**<0.14**	ug/L	1.0	1		03/18/22 16:47	79-00-5	
Trichloroethene	**0.58J**	ug/L	1.0	1		03/18/22 16:47	79-01-6	B
Trichlorofluoromethane	**<0.16**	ug/L	1.0	1		03/18/22 16:47	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	2.5	1		03/18/22 16:47	96-18-4	
1,2,4-Trimethylbenzene	**<0.32**	ug/L	1.0	1		03/18/22 16:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.090**	ug/L	1.0	1		03/18/22 16:47	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	1		03/18/22 16:47	75-01-4	
Xylene (Total)	**<0.28**	ug/L	3.0	1		03/18/22 16:47	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		03/18/22 16:47	460-00-4	
Toluene-d8 (S)	100	%	80-120	1		03/18/22 16:47	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		03/18/22 16:47	2199-69-1	
Preservation pH	**1.0**		0.10	1		03/18/22 16:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
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ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: TB-1 **Lab ID: 60395120026** Collected: 03/11/22 10:00 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Acetone	**<2.5**	ug/L	10.0	1		03/18/22 16:32	67-64-1	
Benzene	**<0.14**	ug/L	1.0	1		03/18/22 16:32	71-43-2	
Bromobenzene	**<0.088**	ug/L	1.0	1		03/18/22 16:32	108-86-1	
Bromochloromethane	**<0.20**	ug/L	1.0	1		03/18/22 16:32	74-97-5	
Bromodichloromethane	**<0.16**	ug/L	1.0	1		03/18/22 16:32	75-27-4	
Bromoform	**<0.68**	ug/L	1.0	1		03/18/22 16:32	75-25-2	
Bromomethane	**<0.46**	ug/L	5.0	1		03/18/22 16:32	74-83-9	
2-Butanone (MEK)	**<0.98**	ug/L	10.0	1		03/18/22 16:32	78-93-3	
n-Butylbenzene	**<0.15**	ug/L	1.0	1		03/18/22 16:32	104-51-8	
sec-Butylbenzene	**<0.11**	ug/L	1.0	1		03/18/22 16:32	135-98-8	
tert-Butylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 16:32	98-06-6	
Carbon disulfide	**<0.98**	ug/L	5.0	1		03/18/22 16:32	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	1		03/18/22 16:32	56-23-5	
Chlorobenzene	**<0.089**	ug/L	1.0	1		03/18/22 16:32	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	1		03/18/22 16:32	75-00-3	
Chloroform	**<0.22**	ug/L	1.0	1		03/18/22 16:32	67-66-3	
Chloromethane	**<0.28**	ug/L	1.0	1		03/18/22 16:32	74-87-3	
2-Chlorotoluene	**<0.11**	ug/L	1.0	1		03/18/22 16:32	95-49-8	
4-Chlorotoluene	**<0.15**	ug/L	1.0	1		03/18/22 16:32	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.78**	ug/L	2.5	1		03/18/22 16:32	96-12-8	
Dibromochloromethane	**<0.30**	ug/L	1.0	1		03/18/22 16:32	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	1		03/18/22 16:32	106-93-4	
Dibromomethane	**<0.11**	ug/L	1.0	1		03/18/22 16:32	74-95-3	
1,2-Dichlorobenzene	**<0.12**	ug/L	1.0	1		03/18/22 16:32	95-50-1	
1,3-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 16:32	541-73-1	
1,4-Dichlorobenzene	**<0.13**	ug/L	1.0	1		03/18/22 16:32	106-46-7	
Dichlorodifluoromethane	**<0.20**	ug/L	1.0	1		03/18/22 16:32	75-71-8	
1,1-Dichloroethane	**<0.12**	ug/L	1.0	1		03/18/22 16:32	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	1.0	1		03/18/22 16:32	107-06-2	
1,2-Dichloroethene (Total)	**0.62J**	ug/L	1.0	1		03/18/22 16:32	540-59-0	
1,1-Dichloroethene	**<0.22**	ug/L	1.0	1		03/18/22 16:32	75-35-4	
cis-1,2-Dichloroethene	**0.62J**	ug/L	1.0	1		03/18/22 16:32	156-59-2	B
trans-1,2-Dichloroethene	**<0.10**	ug/L	1.0	1		03/18/22 16:32	156-60-5	
1,2-Dichloropropane	**<0.14**	ug/L	1.0	1		03/18/22 16:32	78-87-5	
1,3-Dichloropropane	**<0.10**	ug/L	1.0	1		03/18/22 16:32	142-28-9	
2,2-Dichloropropane	**<0.16**	ug/L	1.0	1		03/18/22 16:32	594-20-7	
1,1-Dichloropropene	**<0.14**	ug/L	1.0	1		03/18/22 16:32	563-58-6	
cis-1,3-Dichloropropene	**<0.078**	ug/L	1.0	1		03/18/22 16:32	10061-01-5	
trans-1,3-Dichloropropene	**<0.18**	ug/L	1.0	1		03/18/22 16:32	10061-02-6	
Ethylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 16:32	100-41-4	
Hexachloro-1,3-butadiene	**<0.42**	ug/L	1.0	1		03/18/22 16:32	87-68-3	
2-Hexanone	**<1.1**	ug/L	10.0	1		03/18/22 16:32	591-78-6	
Isopropylbenzene (Cumene)	**<0.097**	ug/L	1.0	1		03/18/22 16:32	98-82-8	
p-Isopropyltoluene	**<0.13**	ug/L	1.0	1		03/18/22 16:32	99-87-6	
Methylene Chloride	**<0.39**	ug/L	1.0	1		03/18/22 16:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.74**	ug/L	10.0	1		03/18/22 16:32	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: TB-1 **Lab ID: 60395120026** Collected: 03/11/22 10:00 Received: 03/11/22 11:15 Matrix: Water

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260 Pace Analytical Services - Kansas City							
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	1		03/18/22 16:32	1634-04-4	
Naphthalene	**<0.82**	ug/L	10.0	1		03/18/22 16:32	91-20-3	
n-Propylbenzene	**<0.12**	ug/L	1.0	1		03/18/22 16:32	103-65-1	
Styrene	**<0.12**	ug/L	1.0	1		03/18/22 16:32	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.084**	ug/L	1.0	1		03/18/22 16:32	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.15**	ug/L	1.0	1		03/18/22 16:32	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.0	1		03/18/22 16:32	127-18-4	
Toluene	**<0.25**	ug/L	1.0	1		03/18/22 16:32	108-88-3	
1,2,3-Trichlorobenzene	**<0.93**	ug/L	1.0	1		03/18/22 16:32	87-61-6	
1,2,4-Trichlorobenzene	**<0.73**	ug/L	1.0	1		03/18/22 16:32	120-82-1	
1,1,1-Trichloroethane	**<0.11**	ug/L	1.0	1		03/18/22 16:32	71-55-6	
1,1,2-Trichloroethane	**<0.14**	ug/L	1.0	1		03/18/22 16:32	79-00-5	
Trichloroethene	**0.60J**	ug/L	1.0	1		03/18/22 16:32	79-01-6	B
Trichlorofluoromethane	**<0.16**	ug/L	1.0	1		03/18/22 16:32	75-69-4	
1,2,3-Trichloropropane	**<0.41**	ug/L	2.5	1		03/18/22 16:32	96-18-4	
1,2,4-Trimethylbenzene	**<0.32**	ug/L	1.0	1		03/18/22 16:32	95-63-6	
1,3,5-Trimethylbenzene	**<0.090**	ug/L	1.0	1		03/18/22 16:32	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	1		03/18/22 16:32	75-01-4	
Xylene (Total)	**<0.28**	ug/L	3.0	1		03/18/22 16:32	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		03/18/22 16:32	460-00-4	
Toluene-d8 (S)	99	%	80-120	1		03/18/22 16:32	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1		03/18/22 16:32	2199-69-1	
Preservation pH	**1.0**		0.10	1		03/18/22 16:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: TB-2 **Lab ID: 60395120027** Collected: 03/11/22 10:05 Received: 03/11/22 11:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**<16.2**	ug/kg	20.0	1	03/23/22 07:36	03/23/22 08:51	67-64-1	
Benzene	**<0.49**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	71-43-2	
Bromobenzene	**<0.94**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	108-86-1	
Bromochloromethane	**<0.60**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	74-97-5	
Bromodichloromethane	**<0.60**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	75-27-4	
Bromoform	**<0.58**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	75-25-2	
Bromomethane	**<2.9**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	74-83-9	
2-Butanone (MEK)	**<3.4**	ug/kg	10.0	1	03/23/22 07:36	03/23/22 08:51	78-93-3	
n-Butylbenzene	**<0.65**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	104-51-8	
sec-Butylbenzene	**<0.73**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	135-98-8	
tert-Butylbenzene	**<0.88**	ug/kg	25.0	1	03/23/22 07:36	03/23/22 08:51	98-06-6	
Carbon disulfide	**<0.64**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	75-15-0	
Carbon tetrachloride	**<0.86**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	56-23-5	
Chlorobenzene	**<0.63**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	108-90-7	
Chloroethane	**<1.5**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	75-00-3	
Chloroform	**<0.49**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	67-66-3	
Chloromethane	**<0.80**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	74-87-3	
2-Chlorotoluene	**<0.73**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	95-49-8	
4-Chlorotoluene	**<0.60**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/kg	10.0	1	03/23/22 07:36	03/23/22 08:51	96-12-8	
Dibromochloromethane	**<0.65**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.54**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	106-93-4	
Dibromomethane	**<0.60**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	74-95-3	
1,2-Dichlorobenzene	**<0.62**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	95-50-1	
1,3-Dichlorobenzene	**<0.72**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	541-73-1	
1,4-Dichlorobenzene	**<0.81**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	106-46-7	
Dichlorodifluoromethane	**<1.2**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	75-34-3	
1,2-Dichloroethane	**<0.40**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	107-06-2	
1,2-Dichloroethene (Total)	**<1.1**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	540-59-0	
1,1-Dichloroethene	**<0.64**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	156-59-2	
trans-1,2-Dichloroethene	**<0.68**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	156-60-5	
1,2-Dichloropropane	**<0.98**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	78-87-5	
1,3-Dichloropropane	**<0.69**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	594-20-7	
1,1-Dichloropropene	**<0.90**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	563-58-6	
cis-1,3-Dichloropropene	**<0.53**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	10061-02-6	
Ethylbenzene	**<0.46**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	100-41-4	
Hexachloro-1,3-butadiene	**<0.85**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	87-68-3	
2-Hexanone	**<2.5**	ug/kg	20.0	1	03/23/22 07:36	03/23/22 08:51	591-78-6	
Isopropylbenzene (Cumene)	**<0.57**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	98-82-8	
p-Isopropyltoluene	**<0.69**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	99-87-6	
Methylene Chloride	**<2.7**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: TB-2 **Lab ID: 60395120027** Collected: 03/11/22 10:05 Received: 03/11/22 11:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**<3.0**	ug/kg	10.0	1	03/23/22 07:36	03/23/22 08:51	108-10-1	
Methyl-tert-butyl ether	**<0.48**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	1634-04-4	
Naphthalene	**<0.82**	ug/kg	10.0	1	03/23/22 07:36	03/23/22 08:51	91-20-3	
n-Propylbenzene	**<0.80**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	103-65-1	
Styrene	**<0.59**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	79-34-5	
Tetrachloroethene	**<0.41**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	127-18-4	
Toluene	**0.46J**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	108-88-3	
1,2,3-Trichlorobenzene	**<0.80**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	87-61-6	
1,2,4-Trichlorobenzene	**<0.80**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	120-82-1	
1,1,1-Trichloroethane	**<0.75**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	71-55-6	
1,1,2-Trichloroethane	**<0.63**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	79-00-5	
Trichloroethene	**<0.72**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	79-01-6	
Trichlorofluoromethane	**<0.61**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	75-69-4	
1,2,3-Trichloropropane	**<2.1**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	96-18-4	
1,2,4-Trimethylbenzene	**<0.67**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.63**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	108-67-8	
Vinyl chloride	**<0.67**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	75-01-4	
Xylene (Total)	**<1.1**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 08:51	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	80-120	1	03/23/22 07:36	03/23/22 08:51	2037-26-5	
4-Bromofluorobenzene (S)	117	%	80-120	1	03/23/22 07:36	03/23/22 08:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	03/23/22 07:36	03/23/22 08:51	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: TB-3 **Lab ID: 60395120028** Collected: 03/11/22 10:10 Received: 03/11/22 11:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
Acetone	**<16.2**	ug/kg	20.0	1	03/23/22 07:36	03/23/22 09:07	67-64-1	
Benzene	**<0.49**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	71-43-2	
Bromobenzene	**<0.94**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	108-86-1	
Bromochloromethane	**<0.60**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	74-97-5	
Bromodichloromethane	**<0.60**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	75-27-4	
Bromoform	**<0.58**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	75-25-2	
Bromomethane	**<2.9**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	74-83-9	
2-Butanone (MEK)	**<3.4**	ug/kg	10.0	1	03/23/22 07:36	03/23/22 09:07	78-93-3	
n-Butylbenzene	**<0.65**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	104-51-8	
sec-Butylbenzene	**<0.73**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	135-98-8	
tert-Butylbenzene	**<0.88**	ug/kg	25.0	1	03/23/22 07:36	03/23/22 09:07	98-06-6	
Carbon disulfide	**<0.64**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	75-15-0	
Carbon tetrachloride	**<0.86**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	56-23-5	
Chlorobenzene	**<0.63**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	108-90-7	
Chloroethane	**<1.5**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	75-00-3	
Chloroform	**<0.49**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	67-66-3	
Chloromethane	**<0.80**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	74-87-3	
2-Chlorotoluene	**<0.73**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	95-49-8	
4-Chlorotoluene	**<0.60**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/kg	10.0	1	03/23/22 07:36	03/23/22 09:07	96-12-8	
Dibromochloromethane	**<0.65**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	124-48-1	
1,2-Dibromoethane (EDB)	**<0.54**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	106-93-4	
Dibromomethane	**<0.60**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	74-95-3	
1,2-Dichlorobenzene	**<0.62**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	95-50-1	
1,3-Dichlorobenzene	**<0.72**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	541-73-1	
1,4-Dichlorobenzene	**<0.81**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	106-46-7	
Dichlorodifluoromethane	**<1.2**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	75-34-3	
1,2-Dichloroethane	**<0.40**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	107-06-2	
1,2-Dichloroethene (Total)	**<1.1**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	540-59-0	
1,1-Dichloroethene	**<0.64**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	156-59-2	
trans-1,2-Dichloroethene	**<0.68**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	156-60-5	
1,2-Dichloropropane	**<0.98**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	78-87-5	
1,3-Dichloropropane	**<0.69**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	594-20-7	
1,1-Dichloropropene	**<0.90**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	563-58-6	
cis-1,3-Dichloropropene	**<0.53**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	10061-01-5	
trans-1,3-Dichloropropene	**<0.46**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	10061-02-6	
Ethylbenzene	**<0.46**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	100-41-4	
Hexachloro-1,3-butadiene	**<0.85**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	87-68-3	
2-Hexanone	**<2.5**	ug/kg	20.0	1	03/23/22 07:36	03/23/22 09:07	591-78-6	
Isopropylbenzene (Cumene)	**<0.57**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	98-82-8	
p-Isopropyltoluene	**<0.69**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	99-87-6	
Methylene Chloride	**<2.7**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	75-09-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Sample: TB-3 **Lab ID: 60395120028** Collected: 03/11/22 10:10 Received: 03/11/22 11:15 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 Pace Analytical Services - Kansas City							
4-Methyl-2-pentanone (MIBK)	**<3.0**	ug/kg	10.0	1	03/23/22 07:36	03/23/22 09:07	108-10-1	
Methyl-tert-butyl ether	**<0.48**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	1634-04-4	
Naphthalene	**<0.82**	ug/kg	10.0	1	03/23/22 07:36	03/23/22 09:07	91-20-3	
n-Propylbenzene	**<0.80**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	103-65-1	
Styrene	**<0.59**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	79-34-5	
Tetrachloroethene	**<0.41**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	127-18-4	
Toluene	**0.50J**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	108-88-3	
1,2,3-Trichlorobenzene	**<0.80**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	87-61-6	
1,2,4-Trichlorobenzene	**<0.80**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	120-82-1	
1,1,1-Trichloroethane	**<0.75**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	71-55-6	
1,1,2-Trichloroethane	**<0.63**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	79-00-5	
Trichloroethene	**<0.72**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	79-01-6	
Trichlorofluoromethane	**<0.61**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	75-69-4	
1,2,3-Trichloropropane	**<2.1**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	96-18-4	
1,2,4-Trimethylbenzene	**<0.67**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	95-63-6	
1,3,5-Trimethylbenzene	**<0.63**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	108-67-8	
Vinyl chloride	**<0.67**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	75-01-4	
Xylene (Total)	**<1.1**	ug/kg	5.0	1	03/23/22 07:36	03/23/22 09:07	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1	03/23/22 07:36	03/23/22 09:07	2037-26-5	
4-Bromofluorobenzene (S)	115	%	80-120	1	03/23/22 07:36	03/23/22 09:07	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	03/23/22 07:36	03/23/22 09:07	2199-69-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

QC Batch: 776125
QC Batch Method: EPA 5035A/5030
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60395120011, 60395120014, 60395120018

METHOD BLANK: 3097676 Matrix: Solid
Associated Lab Samples: 60395120011, 60395120014, 60395120018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<1.0	5.0	03/17/22 15:00	
1,1,1-Trichloroethane	ug/kg	<0.75	5.0	03/17/22 15:00	
1,1,2,2-Tetrachloroethane	ug/kg	<1.0	5.0	03/17/22 15:00	
1,1,2-Trichloroethane	ug/kg	<0.63	5.0	03/17/22 15:00	
1,1-Dichloroethane	ug/kg	<0.39	5.0	03/17/22 15:00	
1,1-Dichloroethene	ug/kg	<0.64	5.0	03/17/22 15:00	
1,1-Dichloropropene	ug/kg	<0.90	5.0	03/17/22 15:00	
1,2,3-Trichlorobenzene	ug/kg	5.0J	5.0	03/17/22 15:00	
1,2,3-Trichloropropane	ug/kg	<2.1	5.0	03/17/22 15:00	
1,2,4-Trichlorobenzene	ug/kg	5.6	5.0	03/17/22 15:00	
1,2,4-Trimethylbenzene	ug/kg	<0.67	5.0	03/17/22 15:00	
1,2-Dibromo-3-chloropropane	ug/kg	<1.8	10.0	03/17/22 15:00	
1,2-Dibromoethane (EDB)	ug/kg	<0.54	5.0	03/17/22 15:00	
1,2-Dichlorobenzene	ug/kg	<0.62	5.0	03/17/22 15:00	
1,2-Dichloroethane	ug/kg	<0.40	5.0	03/17/22 15:00	
1,2-Dichloroethene (Total)	ug/kg	<1.1	5.0	03/17/22 15:00	
1,2-Dichloropropane	ug/kg	<0.98	5.0	03/17/22 15:00	
1,3,5-Trimethylbenzene	ug/kg	<0.63	5.0	03/17/22 15:00	
1,3-Dichlorobenzene	ug/kg	<0.72	5.0	03/17/22 15:00	
1,3-Dichloropropane	ug/kg	<0.69	5.0	03/17/22 15:00	
1,4-Dichlorobenzene	ug/kg	<0.81	5.0	03/17/22 15:00	
2,2-Dichloropropane	ug/kg	<0.48	5.0	03/17/22 15:00	
2-Butanone (MEK)	ug/kg	<3.4	10.0	03/17/22 15:00	
2-Chlorotoluene	ug/kg	<0.73	5.0	03/17/22 15:00	
2-Hexanone	ug/kg	<2.5	20.0	03/17/22 15:00	
4-Chlorotoluene	ug/kg	<0.60	5.0	03/17/22 15:00	
4-Methyl-2-pentanone (MIBK)	ug/kg	<3.0	10.0	03/17/22 15:00	
Acetone	ug/kg	<16.2	20.0	03/17/22 15:00	
Benzene	ug/kg	<0.49	5.0	03/17/22 15:00	
Bromobenzene	ug/kg	<0.94	5.0	03/17/22 15:00	
Bromochloromethane	ug/kg	<0.60	5.0	03/17/22 15:00	
Bromodichloromethane	ug/kg	<0.60	5.0	03/17/22 15:00	
Bromoform	ug/kg	<0.58	5.0	03/17/22 15:00	
Bromomethane	ug/kg	<2.9	5.0	03/17/22 15:00	
Carbon disulfide	ug/kg	<0.64	5.0	03/17/22 15:00	
Carbon tetrachloride	ug/kg	<0.86	5.0	03/17/22 15:00	
Chlorobenzene	ug/kg	<0.63	5.0	03/17/22 15:00	
Chloroethane	ug/kg	<1.5	5.0	03/17/22 15:00	
Chloroform	ug/kg	0.54J	5.0	03/17/22 15:00	
Chloromethane	ug/kg	<0.80	5.0	03/17/22 15:00	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

METHOD BLANK: 3097676 Matrix: Solid
Associated Lab Samples: 60395120011, 60395120014, 60395120018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	<0.43	5.0	03/17/22 15:00	
cis-1,3-Dichloropropene	ug/kg	<0.53	5.0	03/17/22 15:00	
Dibromochloromethane	ug/kg	<0.65	5.0	03/17/22 15:00	
Dibromomethane	ug/kg	<0.60	5.0	03/17/22 15:00	
Dichlorodifluoromethane	ug/kg	<1.2	5.0	03/17/22 15:00	
Ethylbenzene	ug/kg	<0.46	5.0	03/17/22 15:00	
Hexachloro-1,3-butadiene	ug/kg	1.0J	5.0	03/17/22 15:00	
Isopropylbenzene (Cumene)	ug/kg	<0.57	5.0	03/17/22 15:00	
Methyl-tert-butyl ether	ug/kg	<0.48	5.0	03/17/22 15:00	
Methylene Chloride	ug/kg	<2.7	5.0	03/17/22 15:00	
n-Butylbenzene	ug/kg	<0.65	5.0	03/17/22 15:00	
n-Propylbenzene	ug/kg	<0.80	5.0	03/17/22 15:00	
Naphthalene	ug/kg	8.2J	10.0	03/17/22 15:00	
p-Isopropyltoluene	ug/kg	<0.69	5.0	03/17/22 15:00	
sec-Butylbenzene	ug/kg	<0.73	5.0	03/17/22 15:00	
Styrene	ug/kg	<0.59	5.0	03/17/22 15:00	
tert-Butylbenzene	ug/kg	<0.88	25.0	03/17/22 15:00	
Tetrachloroethene	ug/kg	<0.41	5.0	03/17/22 15:00	
Toluene	ug/kg	<0.35	5.0	03/17/22 15:00	
trans-1,2-Dichloroethene	ug/kg	<0.68	5.0	03/17/22 15:00	
trans-1,3-Dichloropropene	ug/kg	<0.46	5.0	03/17/22 15:00	
Trichloroethene	ug/kg	<0.72	5.0	03/17/22 15:00	
Trichlorofluoromethane	ug/kg	<0.61	5.0	03/17/22 15:00	
Vinyl chloride	ug/kg	<0.67	5.0	03/17/22 15:00	
Xylene (Total)	ug/kg	<1.1	5.0	03/17/22 15:00	
1,2-Dichlorobenzene-d4 (S)	%	102	80-120	03/17/22 15:00	
4-Bromofluorobenzene (S)	%	105	80-120	03/17/22 15:00	
Toluene-d8 (S)	%	99	80-120	03/17/22 15:00	

LABORATORY CONTROL SAMPLE: 3097677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	92.1	92	80-130	
1,1,1-Trichloroethane	ug/kg	100	87.5	88	75-130	
1,1,2,2-Tetrachloroethane	ug/kg	100	106	106	75-120	
1,1,2-Trichloroethane	ug/kg	100	98.8	99	80-120	
1,1-Dichloroethane	ug/kg	100	86.7	87	75-125	
1,1-Dichloroethene	ug/kg	100	78.7	79	70-130	
1,1-Dichloropropene	ug/kg	100	89.5	90	60-140	
1,2,3-Trichlorobenzene	ug/kg	100	94.2	94	80-125	
1,2,3-Trichloropropane	ug/kg	100	107	107	80-120	
1,2,4-Trichlorobenzene	ug/kg	100	95.1	95	80-125	
1,2,4-Trimethylbenzene	ug/kg	100	90.9	91	80-125	
1,2-Dibromo-3-chloropropane	ug/kg	100	108	108	75-135	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3097677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	100	102	102	80-125	
1,2-Dichlorobenzene	ug/kg	100	93.5	93	80-120	
1,2-Dichloroethane	ug/kg	100	95.7	96	80-120	
1,2-Dichloroethene (Total)	ug/kg	200	178	89	80-120	
1,2-Dichloropropane	ug/kg	100	91.6	92	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	89.5	90	80-125	
1,3-Dichlorobenzene	ug/kg	100	90.4	90	80-120	
1,3-Dichloropropane	ug/kg	100	100	100	80-120	
1,4-Dichlorobenzene	ug/kg	100	90.8	91	80-120	
2,2-Dichloropropane	ug/kg	100	92.4	92	75-130	
2-Butanone (MEK)	ug/kg	500	519	104	60-135	
2-Chlorotoluene	ug/kg	100	87.4	87	80-120	
2-Hexanone	ug/kg	500	539	108	70-135	
4-Chlorotoluene	ug/kg	100	91.8	92	80-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	601	120	75-130	
Acetone	ug/kg	500	507	101	50-150	
Benzene	ug/kg	100	89.3	89	80-120	
Bromobenzene	ug/kg	100	91.5	91	80-120	
Bromochloromethane	ug/kg	100	91.4	91	75-120	
Bromodichloromethane	ug/kg	100	93.4	93	80-125	
Bromoform	ug/kg	100	102	102	80-135	
Bromomethane	ug/kg	100	59.8	60	35-135	
Carbon disulfide	ug/kg	100	74.2	74	65-140	
Carbon tetrachloride	ug/kg	100	88.5	89	75-140	
Chlorobenzene	ug/kg	100	90.1	90	80-120	
Chloroethane	ug/kg	100	67.2	67	50-135	
Chloroform	ug/kg	100	89.1	89	80-120	
Chloromethane	ug/kg	100	53.5	54	15-155	
cis-1,2-Dichloroethene	ug/kg	100	91.9	92	80-120	
cis-1,3-Dichloropropene	ug/kg	100	101	101	80-125	
Dibromochloromethane	ug/kg	100	99.8	100	80-130	
Dibromomethane	ug/kg	100	98.8	99	80-120	
Dichlorodifluoromethane	ug/kg	100	37.5	38	10-160	
Ethylbenzene	ug/kg	100	90.9	91	80-120	
Hexachloro-1,3-butadiene	ug/kg	100	93.7	94	80-135	
Isopropylbenzene (Cumene)	ug/kg	100	92.5	93	75-135	
Methyl-tert-butyl ether	ug/kg	100	108	108	75-130	
Methylene Chloride	ug/kg	100	85.2	85	65-120	
n-Butylbenzene	ug/kg	100	94.7	95	80-135	
n-Propylbenzene	ug/kg	100	92.5	92	80-125	
Naphthalene	ug/kg	100	105	105	80-120	
p-Isopropyltoluene	ug/kg	100	92.5	92	65-145	
sec-Butylbenzene	ug/kg	100	91.1	91	80-135	
Styrene	ug/kg	100	93.0	93	85-125	
tert-Butylbenzene	ug/kg	100	92.3	92	80-125	
Tetrachloroethene	ug/kg	100	89.4	89	80-130	
Toluene	ug/kg	100	88.0	88	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3097677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/kg	100	86.3	86	75-125	
trans-1,3-Dichloropropene	ug/kg	100	106	106	80-130	
Trichloroethene	ug/kg	100	91.0	91	80-125	
Trichlorofluoromethane	ug/kg	100	75.0	75	65-135	
Vinyl chloride	ug/kg	100	63.6	64	35-145	
Xylene (Total)	ug/kg	300	268	89	80-120	
1,2-Dichlorobenzene-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097678 3097679

Parameter	Units	60395082010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	120	122	103	109	86	89	25-130	6	35	
1,1,1-Trichloroethane	ug/kg	ND	120	122	94.6	101	79	83	45-120	7	35	
1,1,2,2-Tetrachloroethane	ug/kg	ND	120	122	128	131	106	107	10-145	3	35	
1,1,2-Trichloroethane	ug/kg	ND	120	122	116	121	96	99	25-130	4	35	
1,1-Dichloroethane	ug/kg	ND	120	122	100	107	84	88	40-120	7	35	
1,1-Dichloroethene	ug/kg	ND	120	122	80.0	86.6	67	71	35-120	8	35	
1,1-Dichloropropene	ug/kg	ND	120	122	94.9	102	79	84	40-125	8	35	
1,2,3-Trichlorobenzene	ug/kg	ND	120	122	65.6	72.5	55	60	10-125	10	50	
1,2,3-Trichloropropane	ug/kg	ND	120	122	128	132	106	108	25-135	3	35	
1,2,4-Trichlorobenzene	ug/kg	ND	120	122	66.6	72.1	56	59	10-125	8	50	
1,2,4-Trimethylbenzene	ug/kg	ND	120	122	92.7	100	77	82	35-120	8	35	
1,2-Dibromo-3-chloropropane	ug/kg	ND	120	122	121	129	101	106	10-145	6	35	
1,2-Dibromoethane (EDB)	ug/kg	ND	120	122	115	122	96	100	30-140	6	35	
1,2-Dichlorobenzene	ug/kg	ND	120	122	95.3	100	80	83	10-125	5	35	
1,2-Dichloroethane	ug/kg	ND	120	122	113	120	94	99	35-120	7	35	
1,2-Dichloroethene (Total)	ug/kg	ND	240	243	195	212	81	87	40-120	8	35	
1,2-Dichloropropane	ug/kg	ND	120	122	109	118	91	97	35-120	8	35	
1,3,5-Trimethylbenzene	ug/kg	ND	120	122	89.7	96.4	75	79	15-130	7	35	
1,3-Dichlorobenzene	ug/kg	ND	120	122	91.0	96.3	76	79	10-125	6	37	
1,3-Dichloropropane	ug/kg	ND	120	122	117	123	97	101	30-120	5	35	
1,4-Dichlorobenzene	ug/kg	ND	120	122	89.5	95.4	75	78	10-125	6	35	
2,2-Dichloropropane	ug/kg	ND	120	122	92.1	99.4	77	82	40-120	8	35	
2-Butanone (MEK)	ug/kg	ND	599	609	476	499	79	82	20-145	5	35	
2-Chlorotoluene	ug/kg	ND	120	122	95.5	101	80	83	15-125	5	35	
2-Hexanone	ug/kg	ND	599	609	441	440	74	72	15-150	0	35	
4-Chlorotoluene	ug/kg	ND	120	122	92.3	99.5	77	82	10-125	7	35	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	599	609	729	774	122	127	30-140	6	35	
Acetone	ug/kg	ND	599	609	513	558	86	92	10-165	8	35	
Benzene	ug/kg	ND	120	122	101	109	84	90	35-120	8	35	
Bromobenzene	ug/kg	ND	120	122	100	107	84	88	15-125	6	35	

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3097678 3097679

Parameter	Units	60395082010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromochloromethane	ug/kg	ND	120	122	104	110	87	90	35-120	5	35	
Bromodichloromethane	ug/kg	ND	120	122	110	118	92	97	30-130	6	35	
Bromoform	ug/kg	ND	120	122	109	115	91	94	15-135	5	35	
Bromomethane	ug/kg	ND	120	122	64.3	62.9	54	52	10-120	2	35	
Carbon disulfide	ug/kg	ND	120	122	74.0	78.5	62	64	20-120	6	35	
Carbon tetrachloride	ug/kg	ND	120	122	92.4	99.1	77	81	40-125	7	35	
Chlorobenzene	ug/kg	ND	120	122	98.8	105	82	87	20-125	6	35	
Chloroethane	ug/kg	ND	120	122	69.4	76.5	58	63	25-120	10	35	
Chloroform	ug/kg	ND	120	122	103	112	86	91	40-125	8	35	
Chloromethane	ug/kg	ND	120	122	51.4	57.3	43	47	10-120	11	35	
cis-1,2-Dichloroethene	ug/kg	ND	120	122	102	111	85	92	35-120	9	35	
cis-1,3-Dichloropropene	ug/kg	ND	120	122	109	117	91	96	20-130	7	35	
Dibromochloromethane	ug/kg	ND	120	122	112	119	93	97	25-135	6	35	
Dibromomethane	ug/kg	ND	120	122	114	123	95	101	30-125	8	35	
Dichlorodifluoromethane	ug/kg	ND	120	122	28.1	30.3	23	25	10-120	7	35	
Ethylbenzene	ug/kg	ND	120	122	96.4	103	80	84	35-120	6	35	
Hexachloro-1,3-butadiene	ug/kg	ND	120	122	58.8	65.2	49	54	10-125	10	45	
Isopropylbenzene (Cumene)	ug/kg	ND	120	122	94.2	100	79	82	20-135	6	35	
Methyl-tert-butyl ether	ug/kg	ND	120	122	118	127	98	104	35-140	7	35	
Methylene Chloride	ug/kg	0.013 mg/kg	120	122	115	123	85	90	10-135	7	35	
n-Butylbenzene	ug/kg	ND	120	122	83.1	91.1	69	75	10-130	9	35	
n-Propylbenzene	ug/kg	ND	120	122	93.5	99.8	78	82	20-125	7	35	
Naphthalene	ug/kg	ND	120	122	89.8	97.5	75	80	10-160	8	35	
p-Isopropyltoluene	ug/kg	ND	120	122	86.5	93.9	72	77	10-135	8	35	
sec-Butylbenzene	ug/kg	ND	120	122	88.9	95.5	74	78	15-135	7	35	
Styrene	ug/kg	ND	120	122	99.8	107	83	88	15-130	7	35	
tert-Butylbenzene	ug/kg	ND	120	122	92.3	98.3	77	81	15-135	6	35	
Tetrachloroethene	ug/kg	ND	120	122	88.4	94.4	74	78	30-125	6	35	
Toluene	ug/kg	ND	120	122	96.3	103	80	85	35-120	7	35	
trans-1,2-Dichloroethene	ug/kg	ND	120	122	92.9	100	78	82	40-120	7	35	
trans-1,3-Dichloropropene	ug/kg	ND	120	122	112	119	93	98	20-135	6	35	
Trichloroethene	ug/kg	ND	120	122	96.2	104	80	86	25-140	8	35	
Trichlorofluoromethane	ug/kg	ND	120	122	73.3	79.1	61	65	35-120	8	35	
Vinyl chloride	ug/kg	ND	120	122	62.5	66.6	52	55	10-120	6	35	
Xylene (Total)	ug/kg	ND	359	365	284	304	79	83	35-120	7	35	
1,2-Dichlorobenzene-d4 (S)	%						102	102	80-120			
4-Bromofluorobenzene (S)	%						103	103	80-120			
Toluene-d8 (S)	%						99	98	80-120			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

QC Batch: 776545
QC Batch Method: EPA 5035A/5030
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60395120001, 60395120002, 60395120003, 60395120005, 60395120010, 60395120015, 60395120016, 60395120019, 60395120023

METHOD BLANK: 3099054
Matrix: Solid
Associated Lab Samples: 60395120001, 60395120002, 60395120003, 60395120005, 60395120010, 60395120015, 60395120016, 60395120019, 60395120023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<1.0	5.0	03/19/22 18:51	
1,1,1-Trichloroethane	ug/kg	<0.75	5.0	03/19/22 18:51	
1,1,2,2-Tetrachloroethane	ug/kg	<1.0	5.0	03/19/22 18:51	
1,1,2-Trichloroethane	ug/kg	<0.63	5.0	03/19/22 18:51	
1,1-Dichloroethane	ug/kg	<0.39	5.0	03/19/22 18:51	
1,1-Dichloroethene	ug/kg	<0.64	5.0	03/19/22 18:51	
1,1-Dichloropropene	ug/kg	<0.90	5.0	03/19/22 18:51	
1,2,3-Trichlorobenzene	ug/kg	4.5J	5.0	03/19/22 18:51	
1,2,3-Trichloropropane	ug/kg	<2.1	5.0	03/19/22 18:51	
1,2,4-Trichlorobenzene	ug/kg	5.2	5.0	03/19/22 18:51	
1,2,4-Trimethylbenzene	ug/kg	<0.67	5.0	03/19/22 18:51	
1,2-Dibromo-3-chloropropane	ug/kg	<1.8	10.0	03/19/22 18:51	
1,2-Dibromoethane (EDB)	ug/kg	<0.54	5.0	03/19/22 18:51	
1,2-Dichlorobenzene	ug/kg	<0.62	5.0	03/19/22 18:51	
1,2-Dichloroethane	ug/kg	<0.40	5.0	03/19/22 18:51	
1,2-Dichloroethene (Total)	ug/kg	<1.1	5.0	03/19/22 18:51	
1,2-Dichloropropane	ug/kg	<0.98	5.0	03/19/22 18:51	
1,3,5-Trimethylbenzene	ug/kg	<0.63	5.0	03/19/22 18:51	
1,3-Dichlorobenzene	ug/kg	<0.72	5.0	03/19/22 18:51	
1,3-Dichloropropane	ug/kg	<0.69	5.0	03/19/22 18:51	
1,4-Dichlorobenzene	ug/kg	<0.81	5.0	03/19/22 18:51	
2,2-Dichloropropane	ug/kg	<0.48	5.0	03/19/22 18:51	
2-Butanone (MEK)	ug/kg	<3.4	10.0	03/19/22 18:51	
2-Chlorotoluene	ug/kg	<0.73	5.0	03/19/22 18:51	
2-Hexanone	ug/kg	<2.5	20.0	03/19/22 18:51	
4-Chlorotoluene	ug/kg	<0.60	5.0	03/19/22 18:51	
4-Methyl-2-pentanone (MIBK)	ug/kg	<3.0	10.0	03/19/22 18:51	
Acetone	ug/kg	<16.2	20.0	03/19/22 18:51	
Benzene	ug/kg	<0.49	5.0	03/19/22 18:51	
Bromobenzene	ug/kg	<0.94	5.0	03/19/22 18:51	
Bromochloromethane	ug/kg	<0.60	5.0	03/19/22 18:51	
Bromodichloromethane	ug/kg	<0.60	5.0	03/19/22 18:51	
Bromoform	ug/kg	<0.58	5.0	03/19/22 18:51	
Bromomethane	ug/kg	<2.9	5.0	03/19/22 18:51	
Carbon disulfide	ug/kg	<0.64	5.0	03/19/22 18:51	
Carbon tetrachloride	ug/kg	<0.86	5.0	03/19/22 18:51	
Chlorobenzene	ug/kg	<0.63	5.0	03/19/22 18:51	
Chloroethane	ug/kg	<1.5	5.0	03/19/22 18:51	
Chloroform	ug/kg	<0.49	5.0	03/19/22 18:51	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

METHOD BLANK: 3099054 Matrix: Solid
Associated Lab Samples: 60395120001, 60395120002, 60395120003, 60395120005, 60395120010, 60395120015, 60395120016, 60395120019, 60395120023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloromethane	ug/kg	<0.80	5.0	03/19/22 18:51	
cis-1,2-Dichloroethene	ug/kg	<0.43	5.0	03/19/22 18:51	
cis-1,3-Dichloropropene	ug/kg	<0.53	5.0	03/19/22 18:51	
Dibromochloromethane	ug/kg	<0.65	5.0	03/19/22 18:51	
Dibromomethane	ug/kg	<0.60	5.0	03/19/22 18:51	
Dichlorodifluoromethane	ug/kg	<1.2	5.0	03/19/22 18:51	
Ethylbenzene	ug/kg	<0.46	5.0	03/19/22 18:51	
Hexachloro-1,3-butadiene	ug/kg	<0.85	5.0	03/19/22 18:51	
Isopropylbenzene (Cumene)	ug/kg	<0.57	5.0	03/19/22 18:51	
Methyl-tert-butyl ether	ug/kg	<0.48	5.0	03/19/22 18:51	
Methylene Chloride	ug/kg	<2.7	5.0	03/19/22 18:51	
n-Butylbenzene	ug/kg	<0.65	5.0	03/19/22 18:51	
n-Propylbenzene	ug/kg	<0.80	5.0	03/19/22 18:51	
Naphthalene	ug/kg	<0.82	10.0	03/19/22 18:51	
p-Isopropyltoluene	ug/kg	<0.69	5.0	03/19/22 18:51	
sec-Butylbenzene	ug/kg	<0.73	5.0	03/19/22 18:51	
Styrene	ug/kg	<0.59	5.0	03/19/22 18:51	
tert-Butylbenzene	ug/kg	<0.88	25.0	03/19/22 18:51	
Tetrachloroethene	ug/kg	<0.41	5.0	03/19/22 18:51	
Toluene	ug/kg	<0.35	5.0	03/19/22 18:51	
trans-1,2-Dichloroethene	ug/kg	<0.68	5.0	03/19/22 18:51	
trans-1,3-Dichloropropene	ug/kg	<0.46	5.0	03/19/22 18:51	
Trichloroethene	ug/kg	<0.72	5.0	03/19/22 18:51	
Trichlorofluoromethane	ug/kg	<0.61	5.0	03/19/22 18:51	
Vinyl chloride	ug/kg	<0.67	5.0	03/19/22 18:51	
Xylene (Total)	ug/kg	<1.1	5.0	03/19/22 18:51	
1,2-Dichlorobenzene-d4 (S)	%	100	80-120	03/19/22 18:51	
4-Bromofluorobenzene (S)	%	108	80-120	03/19/22 18:51	
Toluene-d8 (S)	%	101	80-120	03/19/22 18:51	

LABORATORY CONTROL SAMPLE: 3099055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	100	100	80-130	
1,1,1-Trichloroethane	ug/kg	100	96.7	97	75-130	
1,1,2,2-Tetrachloroethane	ug/kg	100	107	107	75-120	
1,1,2-Trichloroethane	ug/kg	100	101	101	80-120	
1,1-Dichloroethane	ug/kg	100	93.8	94	75-125	
1,1-Dichloroethene	ug/kg	100	90.3	90	70-130	
1,1-Dichloropropene	ug/kg	100	99.6	100	60-140	
1,2,3-Trichlorobenzene	ug/kg	100	95.6	96	80-125	
1,2,3-Trichloropropane	ug/kg	100	110	110	80-120	
1,2,4-Trichlorobenzene	ug/kg	100	95.9	96	80-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3099055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	100	102	102	80-125	
1,2-Dibromo-3-chloropropane	ug/kg	100	102	102	75-135	
1,2-Dibromoethane (EDB)	ug/kg	100	106	106	80-125	
1,2-Dichlorobenzene	ug/kg	100	96.7	97	80-120	
1,2-Dichloroethane	ug/kg	100	102	102	80-120	
1,2-Dichloroethene (Total)	ug/kg	200	195	97	80-120	
1,2-Dichloropropane	ug/kg	100	99.2	99	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	101	101	80-125	
1,3-Dichlorobenzene	ug/kg	100	99.9	100	80-120	
1,3-Dichloropropane	ug/kg	100	103	103	80-120	
1,4-Dichlorobenzene	ug/kg	100	96.8	97	80-120	
2,2-Dichloropropane	ug/kg	100	99.7	100	75-130	
2-Butanone (MEK)	ug/kg	500	596	119	60-135	
2-Chlorotoluene	ug/kg	100	98.2	98	80-120	
2-Hexanone	ug/kg	500	610	122	70-135	
4-Chlorotoluene	ug/kg	100	100	100	80-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	588	118	75-130	
Acetone	ug/kg	500	566	113	50-150	
Benzene	ug/kg	100	97.3	97	80-120	
Bromobenzene	ug/kg	100	99.8	100	80-120	
Bromochloromethane	ug/kg	100	99.4	99	75-120	
Bromodichloromethane	ug/kg	100	101	101	80-125	
Bromoform	ug/kg	100	108	108	80-135	
Bromomethane	ug/kg	100	64.4	64	35-135	
Carbon disulfide	ug/kg	100	88.3	88	65-140	
Carbon tetrachloride	ug/kg	100	98.9	99	75-140	
Chlorobenzene	ug/kg	100	98.1	98	80-120	
Chloroethane	ug/kg	100	86.0	86	50-135	
Chloroform	ug/kg	100	95.3	95	80-120	
Chloromethane	ug/kg	100	77.3	77	15-155	
cis-1,2-Dichloroethene	ug/kg	100	99.0	99	80-120	
cis-1,3-Dichloropropene	ug/kg	100	110	110	80-125	
Dibromochloromethane	ug/kg	100	104	104	80-130	
Dibromomethane	ug/kg	100	104	104	80-120	
Dichlorodifluoromethane	ug/kg	100	69.4	69	10-160	
Ethylbenzene	ug/kg	100	99.9	100	80-120	
Hexachloro-1,3-butadiene	ug/kg	100	97.0	97	80-135	
Isopropylbenzene (Cumene)	ug/kg	100	103	103	75-135	
Methyl-tert-butyl ether	ug/kg	100	109	109	75-130	
Methylene Chloride	ug/kg	100	93.6	94	65-120	
n-Butylbenzene	ug/kg	100	104	104	80-135	
n-Propylbenzene	ug/kg	100	103	103	80-125	
Naphthalene	ug/kg	100	105	105	80-120	
p-Isopropyltoluene	ug/kg	100	104	104	65-145	
sec-Butylbenzene	ug/kg	100	102	102	80-135	
Styrene	ug/kg	100	104	104	85-125	
tert-Butylbenzene	ug/kg	100	102	102	80-125	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3099055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/kg	100	97.1	97	80-130	
Toluene	ug/kg	100	93.6	94	80-120	
trans-1,2-Dichloroethene	ug/kg	100	95.6	96	75-125	
trans-1,3-Dichloropropene	ug/kg	100	108	108	80-130	
Trichloroethene	ug/kg	100	99.1	99	80-125	
Trichlorofluoromethane	ug/kg	100	84.5	84	65-135	
Vinyl chloride	ug/kg	100	82.8	83	35-145	
Xylene (Total)	ug/kg	300	297	99	80-120	
1,2-Dichlorobenzene-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3099056 3099057

Parameter	Units	60395082002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	115	114	103	99.2	90	87	25-130	4	35	
1,1,1-Trichloroethane	ug/kg	ND	115	114	90.4	87.1	79	76	45-120	4	35	
1,1,2,2-Tetrachloroethane	ug/kg	ND	115	114	117	112	102	98	10-145	4	35	
1,1,2-Trichloroethane	ug/kg	ND	115	114	113	110	98	96	25-130	3	35	
1,1-Dichloroethane	ug/kg	ND	115	114	93.2	91.9	81	81	40-120	1	35	
1,1-Dichloroethene	ug/kg	ND	115	114	73.2	69.8	64	61	35-120	5	35	
1,1-Dichloropropene	ug/kg	ND	115	114	88.1	82.1	77	72	40-125	7	35	
1,2,3-Trichlorobenzene	ug/kg	ND	115	114	78.2	74.7	68	65	10-125	5	50	
1,2,3-Trichloropropane	ug/kg	ND	115	114	125	118	109	104	25-135	6	35	
1,2,4-Trichlorobenzene	ug/kg	ND	115	114	72.0	66.1	63	58	10-125	8	50	
1,2,4-Trimethylbenzene	ug/kg	ND	115	114	94.1	84.4	82	74	35-120	11	35	
1,2-Dibromo-3-chloropropane	ug/kg	ND	115	114	122	120	106	105	10-145	2	35	
1,2-Dibromoethane (EDB)	ug/kg	ND	115	114	114	112	100	98	30-140	2	35	
1,2-Dichlorobenzene	ug/kg	ND	115	114	96.1	87.3	84	76	10-125	10	35	
1,2-Dichloroethane	ug/kg	ND	115	114	106	106	93	93	35-120	0	35	
1,2-Dichloroethene (Total)	ug/kg	ND	229	228	185	179	81	78	40-120	3	35	
1,2-Dichloropropane	ug/kg	ND	115	114	106	103	92	90	35-120	2	35	
1,3,5-Trimethylbenzene	ug/kg	ND	115	114	90.6	81.6	79	71	15-130	10	35	
1,3-Dichlorobenzene	ug/kg	ND	115	114	88.9	80.9	78	71	10-125	9	37	
1,3-Dichloropropane	ug/kg	ND	115	114	114	112	99	98	30-120	2	35	
1,4-Dichlorobenzene	ug/kg	ND	115	114	90.5	80.8	79	71	10-125	11	35	
2,2-Dichloropropane	ug/kg	ND	115	114	73.1	73.7	64	64	40-120	1	35	
2-Butanone (MEK)	ug/kg	ND	573	571	453	439	79	77	20-145	3	35	
2-Chlorotoluene	ug/kg	ND	115	114	93.0	83.6	81	73	15-125	11	35	
2-Hexanone	ug/kg	ND	573	571	101	122	18	21	15-150	19	35	
4-Chlorotoluene	ug/kg	ND	115	114	90.2	80.0	79	70	10-125	12	35	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	573	571	629	630	110	110	30-140	0	35	
Acetone	ug/kg	ND	573	571	498	475	87	83	10-165	5	35	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3099056 3099057

Parameter	Units	60395082002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	115	114	94.8	92.2	83	81	35-120	3	35	
Bromobenzene	ug/kg	ND	115	114	101	92.5	88	81	15-125	9	35	
Bromochloromethane	ug/kg	ND	115	114	101	101	88	88	35-120	0	35	
Bromodichloromethane	ug/kg	ND	115	114	107	106	94	93	30-130	2	35	
Bromoform	ug/kg	ND	115	114	112	110	98	96	15-135	2	35	
Bromomethane	ug/kg	ND	115	114	49.9	46.7	44	41	10-120	7	35	
Carbon disulfide	ug/kg	ND	115	114	62.5	60.5	55	53	20-120	3	35	
Carbon tetrachloride	ug/kg	ND	115	114	88.4	82.1	77	72	40-125	7	35	
Chlorobenzene	ug/kg	ND	115	114	97.3	89.9	85	79	20-125	8	35	
Chloroethane	ug/kg	ND	115	114	62.9	61.3	55	54	25-120	3	35	
Chloroform	ug/kg	ND	115	114	99.0	96.6	86	85	40-125	2	35	
Chloromethane	ug/kg	ND	115	114	44.7	44.3	39	39	10-120	1	35	
cis-1,2-Dichloroethene	ug/kg	ND	115	114	97.9	96.6	85	85	35-120	1	35	
cis-1,3-Dichloropropene	ug/kg	ND	115	114	104	101	91	88	20-130	3	35	
Dibromochloromethane	ug/kg	ND	115	114	111	110	97	96	25-135	1	35	
Dibromomethane	ug/kg	ND	115	114	112	111	98	97	30-125	1	35	
Dichlorodifluoromethane	ug/kg	ND	115	114	25.4	23.1	22	20	10-120	9	35	
Ethylbenzene	ug/kg	ND	115	114	94.2	86.8	82	76	35-120	8	35	
Hexachloro-1,3-butadiene	ug/kg	ND	115	114	66.9	67.9	58	59	10-125	1	45	
Isopropylbenzene (Cumene)	ug/kg	ND	115	114	92.5	85.1	81	74	20-135	8	35	
Methyl-tert-butyl ether	ug/kg	ND	115	114	113	116	98	102	35-140	3	35	
Methylene Chloride	ug/kg	ND	115	114	93.5	93.8	82	82	10-135	0	35	
n-Butylbenzene	ug/kg	ND	115	114	84.0	78.2	73	68	10-130	7	35	
n-Propylbenzene	ug/kg	ND	115	114	90.7	82.2	79	72	20-125	10	35	
Naphthalene	ug/kg	ND	115	114	99.5	96.2	87	84	10-160	3	35	
p-Isopropyltoluene	ug/kg	ND	115	114	86.5	79.9	75	70	10-135	8	35	
sec-Butylbenzene	ug/kg	ND	115	114	89.0	82.4	78	72	15-135	8	35	
Styrene	ug/kg	ND	115	114	97.4	88.6	85	78	15-130	9	35	
tert-Butylbenzene	ug/kg	ND	115	114	95.4	87.7	83	77	15-135	8	35	
Tetrachloroethene	ug/kg	ND	115	114	84.1	77.6	73	68	30-125	8	35	
Toluene	ug/kg	ND	115	114	93.1	87.1	81	76	35-120	7	35	
trans-1,2-Dichloroethene	ug/kg	ND	115	114	86.7	82.5	76	72	40-120	5	35	
trans-1,3-Dichloropropene	ug/kg	ND	115	114	104	103	91	90	20-135	2	35	
Trichloroethene	ug/kg	ND	115	114	96.1	90.1	84	79	25-140	6	35	
Trichlorofluoromethane	ug/kg	ND	115	114	63.4	58.6	55	51	35-120	8	35	
Vinyl chloride	ug/kg	ND	115	114	48.9	48.5	43	42	10-120	1	35	
Xylene (Total)	ug/kg	ND	344	342	281	257	82	75	35-120	9	35	
1,2-Dichlorobenzene-d4 (S)	%						101	101	80-120			
4-Bromofluorobenzene (S)	%						103	102	80-120			
Toluene-d8 (S)	%						98	99	80-120			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

QC Batch: 776607
QC Batch Method: EPA 5035A/5030
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60395120004

METHOD BLANK: 3099161 Matrix: Solid
Associated Lab Samples: 60395120004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<1.0	5.0	03/21/22 08:30	
1,1,1-Trichloroethane	ug/kg	<0.75	5.0	03/21/22 08:30	
1,1,2,2-Tetrachloroethane	ug/kg	<1.0	5.0	03/21/22 08:30	
1,1,2-Trichloroethane	ug/kg	<0.63	5.0	03/21/22 08:30	
1,1-Dichloroethane	ug/kg	<0.39	5.0	03/21/22 08:30	
1,1-Dichloroethene	ug/kg	<0.64	5.0	03/21/22 08:30	
1,1-Dichloropropene	ug/kg	<0.90	5.0	03/21/22 08:30	
1,2,3-Trichlorobenzene	ug/kg	<0.80	5.0	03/21/22 08:30	
1,2,3-Trichloropropane	ug/kg	<2.1	5.0	03/21/22 08:30	
1,2,4-Trichlorobenzene	ug/kg	<0.80	5.0	03/21/22 08:30	
1,2,4-Trimethylbenzene	ug/kg	<0.67	5.0	03/21/22 08:30	
1,2-Dibromo-3-chloropropane	ug/kg	<1.8	10.0	03/21/22 08:30	
1,2-Dibromoethane (EDB)	ug/kg	<0.54	5.0	03/21/22 08:30	
1,2-Dichlorobenzene	ug/kg	<0.62	5.0	03/21/22 08:30	
1,2-Dichloroethane	ug/kg	<0.40	5.0	03/21/22 08:30	
1,2-Dichloroethene (Total)	ug/kg	<1.1	5.0	03/21/22 08:30	
1,2-Dichloropropane	ug/kg	<0.98	5.0	03/21/22 08:30	
1,3,5-Trimethylbenzene	ug/kg	<0.63	5.0	03/21/22 08:30	
1,3-Dichlorobenzene	ug/kg	<0.72	5.0	03/21/22 08:30	
1,3-Dichloropropane	ug/kg	<0.69	5.0	03/21/22 08:30	
1,4-Dichlorobenzene	ug/kg	<0.81	5.0	03/21/22 08:30	
2,2-Dichloropropane	ug/kg	<0.48	5.0	03/21/22 08:30	
2-Butanone (MEK)	ug/kg	<3.4	10.0	03/21/22 08:30	
2-Chlorotoluene	ug/kg	<0.73	5.0	03/21/22 08:30	
2-Hexanone	ug/kg	<2.5	20.0	03/21/22 08:30	
4-Chlorotoluene	ug/kg	<0.60	5.0	03/21/22 08:30	
4-Methyl-2-pentanone (MIBK)	ug/kg	3.7J	10.0	03/21/22 08:30	
Acetone	ug/kg	<16.2	20.0	03/21/22 08:30	
Benzene	ug/kg	<0.49	5.0	03/21/22 08:30	
Bromobenzene	ug/kg	<0.94	5.0	03/21/22 08:30	
Bromochloromethane	ug/kg	<0.60	5.0	03/21/22 08:30	
Bromodichloromethane	ug/kg	<0.60	5.0	03/21/22 08:30	
Bromoform	ug/kg	<0.58	5.0	03/21/22 08:30	
Bromomethane	ug/kg	<2.9	5.0	03/21/22 08:30	
Carbon disulfide	ug/kg	<0.64	5.0	03/21/22 08:30	
Carbon tetrachloride	ug/kg	<0.86	5.0	03/21/22 08:30	
Chlorobenzene	ug/kg	<0.63	5.0	03/21/22 08:30	
Chloroethane	ug/kg	<1.5	5.0	03/21/22 08:30	
Chloroform	ug/kg	<0.49	5.0	03/21/22 08:30	
Chloromethane	ug/kg	<0.80	5.0	03/21/22 08:30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

METHOD BLANK: 3099161 Matrix: Solid
Associated Lab Samples: 60395120004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	<0.43	5.0	03/21/22 08:30	
cis-1,3-Dichloropropene	ug/kg	<0.53	5.0	03/21/22 08:30	
Dibromochloromethane	ug/kg	<0.65	5.0	03/21/22 08:30	
Dibromomethane	ug/kg	<0.60	5.0	03/21/22 08:30	
Dichlorodifluoromethane	ug/kg	<1.2	5.0	03/21/22 08:30	
Ethylbenzene	ug/kg	<0.46	5.0	03/21/22 08:30	
Hexachloro-1,3-butadiene	ug/kg	<0.85	5.0	03/21/22 08:30	
Isopropylbenzene (Cumene)	ug/kg	<0.57	5.0	03/21/22 08:30	
Methyl-tert-butyl ether	ug/kg	<0.48	5.0	03/21/22 08:30	
Methylene Chloride	ug/kg	<2.7	5.0	03/21/22 08:30	
n-Butylbenzene	ug/kg	<0.65	5.0	03/21/22 08:30	
n-Propylbenzene	ug/kg	<0.80	5.0	03/21/22 08:30	
Naphthalene	ug/kg	<0.82	10.0	03/21/22 08:30	
p-Isopropyltoluene	ug/kg	<0.69	5.0	03/21/22 08:30	
sec-Butylbenzene	ug/kg	<0.73	5.0	03/21/22 08:30	
Styrene	ug/kg	<0.59	5.0	03/21/22 08:30	
tert-Butylbenzene	ug/kg	<0.88	25.0	03/21/22 08:30	
Tetrachloroethene	ug/kg	<0.41	5.0	03/21/22 08:30	
Toluene	ug/kg	<0.35	5.0	03/21/22 08:30	
trans-1,2-Dichloroethene	ug/kg	<0.68	5.0	03/21/22 08:30	
trans-1,3-Dichloropropene	ug/kg	<0.46	5.0	03/21/22 08:30	
Trichloroethene	ug/kg	<0.72	5.0	03/21/22 08:30	
Trichlorofluoromethane	ug/kg	<0.61	5.0	03/21/22 08:30	
Vinyl chloride	ug/kg	<0.67	5.0	03/21/22 08:30	
Xylene (Total)	ug/kg	<1.1	5.0	03/21/22 08:30	
1,2-Dichlorobenzene-d4 (S)	%	100	80-120	03/21/22 08:30	
4-Bromofluorobenzene (S)	%	112	80-120	03/21/22 08:30	
Toluene-d8 (S)	%	100	80-120	03/21/22 08:30	

LABORATORY CONTROL SAMPLE: 3099162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	98.4	98	80-130	
1,1,1-Trichloroethane	ug/kg	100	98.3	98	75-130	
1,1,2,2-Tetrachloroethane	ug/kg	100	106	106	75-120	
1,1,2-Trichloroethane	ug/kg	100	99.5	99	80-120	
1,1-Dichloroethane	ug/kg	100	98.3	98	75-125	
1,1-Dichloroethene	ug/kg	100	90.9	91	70-130	
1,1-Dichloropropene	ug/kg	100	102	102	60-140	
1,2,3-Trichlorobenzene	ug/kg	100	90.7	91	80-125	
1,2,3-Trichloropropane	ug/kg	100	105	105	80-120	
1,2,4-Trichlorobenzene	ug/kg	100	92.7	93	80-125	
1,2,4-Trimethylbenzene	ug/kg	100	103	103	80-125	
1,2-Dibromo-3-chloropropane	ug/kg	100	104	104	75-135	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3099162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	100	103	103	80-125	
1,2-Dichlorobenzene	ug/kg	100	96.6	97	80-120	
1,2-Dichloroethane	ug/kg	100	101	101	80-120	
1,2-Dichloroethene (Total)	ug/kg	200	198	99	80-120	
1,2-Dichloropropane	ug/kg	100	103	103	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	103	103	80-125	
1,3-Dichlorobenzene	ug/kg	100	99.4	99	80-120	
1,3-Dichloropropane	ug/kg	100	102	102	80-120	
1,4-Dichlorobenzene	ug/kg	100	97.6	98	80-120	
2,2-Dichloropropane	ug/kg	100	105	105	75-130	
2-Butanone (MEK)	ug/kg	500	613	123	60-135	
2-Chlorotoluene	ug/kg	100	98.1	98	80-120	
2-Hexanone	ug/kg	500	618	124	70-135	
4-Chlorotoluene	ug/kg	100	100	100	80-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	588	118	75-130	
Acetone	ug/kg	500	584	117	50-150	
Benzene	ug/kg	100	100	100	80-120	
Bromobenzene	ug/kg	100	97.1	97	80-120	
Bromochloromethane	ug/kg	100	97.8	98	75-120	
Bromodichloromethane	ug/kg	100	103	103	80-125	
Bromoform	ug/kg	100	106	106	80-135	
Bromomethane	ug/kg	100	67.1	67	35-135	
Carbon disulfide	ug/kg	100	90.9	91	65-140	
Carbon tetrachloride	ug/kg	100	99.7	100	75-140	
Chlorobenzene	ug/kg	100	97.8	98	80-120	
Chloroethane	ug/kg	100	92.7	93	50-135	
Chloroform	ug/kg	100	98.6	99	80-120	
Chloromethane	ug/kg	100	81.9	82	15-155	
cis-1,2-Dichloroethene	ug/kg	100	101	101	80-120	
cis-1,3-Dichloropropene	ug/kg	100	111	111	80-125	
Dibromochloromethane	ug/kg	100	104	104	80-130	
Dibromomethane	ug/kg	100	102	102	80-120	
Dichlorodifluoromethane	ug/kg	100	66.6	67	10-160	
Ethylbenzene	ug/kg	100	99.9	100	80-120	
Hexachloro-1,3-butadiene	ug/kg	100	95.3	95	80-135	
Isopropylbenzene (Cumene)	ug/kg	100	103	103	75-135	
Methyl-tert-butyl ether	ug/kg	100	108	108	75-130	
Methylene Chloride	ug/kg	100	96.4	96	65-120	
n-Butylbenzene	ug/kg	100	106	106	80-135	
n-Propylbenzene	ug/kg	100	102	102	80-125	
Naphthalene	ug/kg	100	100	100	80-120	
p-Isopropyltoluene	ug/kg	100	104	104	65-145	
sec-Butylbenzene	ug/kg	100	103	103	80-135	
Styrene	ug/kg	100	102	102	85-125	
tert-Butylbenzene	ug/kg	100	102	102	80-125	
Tetrachloroethene	ug/kg	100	93.2	93	80-130	
Toluene	ug/kg	100	97.5	97	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3099162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/kg	100	96.8	97	75-125	
trans-1,3-Dichloropropene	ug/kg	100	110	110	80-130	
Trichloroethene	ug/kg	100	98.1	98	80-125	
Trichlorofluoromethane	ug/kg	100	83.7	84	65-135	
Vinyl chloride	ug/kg	100	85.4	85	35-145	
Xylene (Total)	ug/kg	300	300	100	80-120	
1,2-Dichlorobenzene-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3099163 3099164

Parameter	Units	60395405007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	123	123	61.3	62.9	50	51	25-130	3	35	
1,1,1-Trichloroethane	ug/kg	ND	123	123	77.1	84.5	62	68	45-120	9	35	
1,1,2,2-Tetrachloroethane	ug/kg	ND	123	123	73.1	72.0	59	58	10-145	2	35	
1,1,2-Trichloroethane	ug/kg	ND	123	123	74.7	77.5	60	63	25-130	4	35	
1,1-Dichloroethane	ug/kg	ND	123	123	78.2	83.2	63	67	40-120	6	35	
1,1-Dichloroethene	ug/kg	ND	123	123	64.7	73.6	52	60	35-120	13	35	
1,1-Dichloropropene	ug/kg	ND	123	123	76.6	85.0	62	69	40-125	10	35	
1,2,3-Trichlorobenzene	ug/kg	ND	123	123	17.7	17.0	14	14	10-125	4	50	
1,2,3-Trichloropropane	ug/kg	ND	123	123	76.1	78.4	62	63	25-135	3	35	
1,2,4-Trichlorobenzene	ug/kg	ND	123	123	19.3	18.2	16	15	10-125	6	50	
1,2,4-Trimethylbenzene	ug/kg	ND	123	123	44.2	43.3	36	35	35-120	2	35	
1,2-Dibromo-3-chloropropane	ug/kg	ND	123	123	62.7	61.9	51	50	10-145	1	35	
1,2-Dibromoethane (EDB)	ug/kg	ND	123	123	70.2	73.8	57	60	30-140	5	35	
1,2-Dichlorobenzene	ug/kg	ND	123	123	34.9	32.1	28	26	10-125	9	35	
1,2-Dichloroethane	ug/kg	ND	123	123	76.8	81.0	62	66	35-120	5	35	
1,2-Dichloroethene (Total)	ug/kg	ND	247	247	146	158	59	64	40-120	8	35	
1,2-Dichloropropane	ug/kg	ND	123	123	79.3	83.1	64	67	35-120	5	35	
1,3,5-Trimethylbenzene	ug/kg	ND	123	123	45.0	44.2	36	36	15-130	2	35	
1,3-Dichlorobenzene	ug/kg	ND	123	123	35.5	34.2	29	28	10-125	4	37	
1,3-Dichloropropane	ug/kg	ND	123	123	74.4	78.5	60	64	30-120	5	35	
1,4-Dichlorobenzene	ug/kg	ND	123	123	35.5	34.5	29	28	10-125	3	35	
2,2-Dichloropropane	ug/kg	ND	123	123	77.7	85.4	63	69	40-120	9	35	
2-Butanone (MEK)	ug/kg	ND	617	617	477	502	77	81	20-145	5	35	
2-Chlorotoluene	ug/kg	ND	123	123	48.5	47.5	39	39	15-125	2	35	
2-Hexanone	ug/kg	ND	617	617	414	418	67	68	15-150	1	35	
4-Chlorotoluene	ug/kg	ND	123	123	44.7	43.5	36	35	10-125	3	35	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	617	617	510	536	83	87	30-140	5	35	
Acetone	ug/kg	ND	617	617	563	612	91	99	10-165	8	35	
Benzene	ug/kg	ND	123	123	75.4	80.1	61	65	35-120	6	35	
Bromobenzene	ug/kg	ND	123	123	47.1	46.3	38	37	15-125	2	35	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3099163 3099164

Parameter	Units	60395405007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromochloromethane	ug/kg	ND	123	123	71.0	76.0	57	62	35-120	7	35	
Bromodichloromethane	ug/kg	ND	123	123	74.2	77.4	60	63	30-130	4	35	
Bromoform	ug/kg	ND	123	123	55.9	57.4	45	46	15-135	3	35	
Bromomethane	ug/kg	ND	123	123	43.9	49.4	36	40	10-120	12	35	
Carbon disulfide	ug/kg	ND	123	123	55.1	62.0	45	50	20-120	12	35	
Carbon tetrachloride	ug/kg	ND	123	123	74.7	82.6	61	67	40-125	10	35	
Chlorobenzene	ug/kg	ND	123	123	55.7	58.1	45	47	20-125	4	35	
Chloroethane	ug/kg	ND	123	123	55.4	61.9	45	50	25-120	11	35	
Chloroform	ug/kg	ND	123	123	77.4	81.6	63	66	40-125	5	35	
Chloromethane	ug/kg	ND	123	123	38.6	42.5	31	34	10-120	9	35	
cis-1,2-Dichloroethene	ug/kg	ND	123	123	74.5	79.5	60	64	35-120	7	35	
cis-1,3-Dichloropropene	ug/kg	ND	123	123	71.9	76.2	58	62	20-130	6	35	
Dibromochloromethane	ug/kg	ND	123	123	65.8	68.1	53	55	25-135	3	35	
Dibromomethane	ug/kg	ND	123	123	75.7	80.6	61	65	30-125	6	35	
Dichlorodifluoromethane	ug/kg	ND	123	123	22.3	25.1	18	20	10-120	12	35	
Ethylbenzene	ug/kg	ND	123	123	59.4	63.3	48	51	35-120	6	35	
Hexachloro-1,3-butadiene	ug/kg	ND	123	123	17.3	16.8	14	14	10-125	3	45	
Isopropylbenzene (Cumene)	ug/kg	ND	123	123	52.9	56.1	43	45	20-135	6	35	
Methyl-tert-butyl ether	ug/kg	ND	123	123	78.7	85.0	64	69	35-140	8	35	
Methylene Chloride	ug/kg	ND	123	123	69.8	75.8	57	61	10-135	8	35	
n-Butylbenzene	ug/kg	ND	123	123	37.6	37.8	30	31	10-130	0	35	
n-Propylbenzene	ug/kg	ND	123	123	51.2	52.2	41	42	20-125	2	35	
Naphthalene	ug/kg	ND	123	123	26.9	27.6	22	22	10-160	2	35	
p-Isopropyltoluene	ug/kg	ND	123	123	41.4	41.1	34	33	10-135	1	35	
sec-Butylbenzene	ug/kg	ND	123	123	44.9	45.5	36	37	15-135	2	35	
Styrene	ug/kg	ND	123	123	50.2	52.2	41	42	15-130	4	35	
tert-Butylbenzene	ug/kg	ND	123	123	47.1	48.1	38	39	15-135	2	35	
Tetrachloroethene	ug/kg	ND	123	123	58.2	62.5	47	51	30-125	7	35	
Toluene	ug/kg	ND	123	123	66.8	70.8	54	57	35-120	6	35	
trans-1,2-Dichloroethene	ug/kg	ND	123	123	71.5	78.7	58	64	40-120	10	35	
trans-1,3-Dichloropropene	ug/kg	ND	123	123	69.7	71.8	56	58	20-135	3	35	
Trichloroethene	ug/kg	ND	123	123	71.3	76.5	58	62	25-140	7	35	
Trichlorofluoromethane	ug/kg	ND	123	123	57.8	65.1	47	53	35-120	12	35	
Vinyl chloride	ug/kg	ND	123	123	44.9	50.1	36	41	10-120	11	35	
Xylene (Total)	ug/kg	ND	370	370	166	174	45	47	35-120	5	35	
1,2-Dichlorobenzene-d4 (S)	%						101	100	80-120			
4-Bromofluorobenzene (S)	%						106	106	80-120			
Toluene-d8 (S)	%						98	99	80-120			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

QC Batch: 777156
QC Batch Method: EPA 5035A/5030
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60395120027, 60395120028

METHOD BLANK: 3101064 Matrix: Solid
Associated Lab Samples: 60395120027, 60395120028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<1.0	5.0	03/23/22 08:35	
1,1,1-Trichloroethane	ug/kg	<0.75	5.0	03/23/22 08:35	
1,1,2,2-Tetrachloroethane	ug/kg	<1.0	5.0	03/23/22 08:35	
1,1,2-Trichloroethane	ug/kg	<0.63	5.0	03/23/22 08:35	
1,1-Dichloroethane	ug/kg	<0.39	5.0	03/23/22 08:35	
1,1-Dichloroethene	ug/kg	<0.64	5.0	03/23/22 08:35	
1,1-Dichloropropene	ug/kg	<0.90	5.0	03/23/22 08:35	
1,2,3-Trichlorobenzene	ug/kg	4.7J	5.0	03/23/22 08:35	
1,2,3-Trichloropropane	ug/kg	<2.1	5.0	03/23/22 08:35	
1,2,4-Trichlorobenzene	ug/kg	<0.80	5.0	03/23/22 08:35	
1,2,4-Trimethylbenzene	ug/kg	<0.67	5.0	03/23/22 08:35	
1,2-Dibromo-3-chloropropane	ug/kg	<1.8	10.0	03/23/22 08:35	
1,2-Dibromoethane (EDB)	ug/kg	<0.54	5.0	03/23/22 08:35	
1,2-Dichlorobenzene	ug/kg	<0.62	5.0	03/23/22 08:35	
1,2-Dichloroethane	ug/kg	<0.40	5.0	03/23/22 08:35	
1,2-Dichloroethene (Total)	ug/kg	<1.1	5.0	03/23/22 08:35	
1,2-Dichloropropane	ug/kg	<0.98	5.0	03/23/22 08:35	
1,3,5-Trimethylbenzene	ug/kg	<0.63	5.0	03/23/22 08:35	
1,3-Dichlorobenzene	ug/kg	<0.72	5.0	03/23/22 08:35	
1,3-Dichloropropane	ug/kg	<0.69	5.0	03/23/22 08:35	
1,4-Dichlorobenzene	ug/kg	<0.81	5.0	03/23/22 08:35	
2,2-Dichloropropane	ug/kg	<0.48	5.0	03/23/22 08:35	
2-Butanone (MEK)	ug/kg	<3.4	10.0	03/23/22 08:35	
2-Chlorotoluene	ug/kg	<0.73	5.0	03/23/22 08:35	
2-Hexanone	ug/kg	<2.5	20.0	03/23/22 08:35	
4-Chlorotoluene	ug/kg	<0.60	5.0	03/23/22 08:35	
4-Methyl-2-pentanone (MIBK)	ug/kg	<3.0	10.0	03/23/22 08:35	
Acetone	ug/kg	<16.2	20.0	03/23/22 08:35	
Benzene	ug/kg	<0.49	5.0	03/23/22 08:35	
Bromobenzene	ug/kg	<0.94	5.0	03/23/22 08:35	
Bromochloromethane	ug/kg	<0.60	5.0	03/23/22 08:35	
Bromodichloromethane	ug/kg	<0.60	5.0	03/23/22 08:35	
Bromoform	ug/kg	<0.58	5.0	03/23/22 08:35	
Bromomethane	ug/kg	<2.9	5.0	03/23/22 08:35	
Carbon disulfide	ug/kg	<0.64	5.0	03/23/22 08:35	
Carbon tetrachloride	ug/kg	<0.86	5.0	03/23/22 08:35	
Chlorobenzene	ug/kg	<0.63	5.0	03/23/22 08:35	
Chloroethane	ug/kg	<1.5	5.0	03/23/22 08:35	
Chloroform	ug/kg	<0.49	5.0	03/23/22 08:35	
Chloromethane	ug/kg	<0.80	5.0	03/23/22 08:35	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

METHOD BLANK: 3101064 Matrix: Solid
Associated Lab Samples: 60395120027, 60395120028

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	<0.43	5.0	03/23/22 08:35	
cis-1,3-Dichloropropene	ug/kg	<0.53	5.0	03/23/22 08:35	
Dibromochloromethane	ug/kg	<0.65	5.0	03/23/22 08:35	
Dibromomethane	ug/kg	<0.60	5.0	03/23/22 08:35	
Dichlorodifluoromethane	ug/kg	<1.2	5.0	03/23/22 08:35	
Ethylbenzene	ug/kg	<0.46	5.0	03/23/22 08:35	
Hexachloro-1,3-butadiene	ug/kg	0.98J	5.0	03/23/22 08:35	
Isopropylbenzene (Cumene)	ug/kg	<0.57	5.0	03/23/22 08:35	
Methyl-tert-butyl ether	ug/kg	<0.48	5.0	03/23/22 08:35	
Methylene Chloride	ug/kg	<2.7	5.0	03/23/22 08:35	
n-Butylbenzene	ug/kg	<0.65	5.0	03/23/22 08:35	
n-Propylbenzene	ug/kg	<0.80	5.0	03/23/22 08:35	
Naphthalene	ug/kg	<0.82	10.0	03/23/22 08:35	
p-Isopropyltoluene	ug/kg	<0.69	5.0	03/23/22 08:35	
sec-Butylbenzene	ug/kg	<0.73	5.0	03/23/22 08:35	
Styrene	ug/kg	<0.59	5.0	03/23/22 08:35	
tert-Butylbenzene	ug/kg	<0.88	25.0	03/23/22 08:35	
Tetrachloroethene	ug/kg	<0.41	5.0	03/23/22 08:35	
Toluene	ug/kg	<0.35	5.0	03/23/22 08:35	
trans-1,2-Dichloroethene	ug/kg	<0.68	5.0	03/23/22 08:35	
trans-1,3-Dichloropropene	ug/kg	<0.46	5.0	03/23/22 08:35	
Trichloroethene	ug/kg	<0.72	5.0	03/23/22 08:35	
Trichlorofluoromethane	ug/kg	<0.61	5.0	03/23/22 08:35	
Vinyl chloride	ug/kg	<0.67	5.0	03/23/22 08:35	
Xylene (Total)	ug/kg	<1.1	5.0	03/23/22 08:35	
1,2-Dichlorobenzene-d4 (S)	%	101	80-120	03/23/22 08:35	
4-Bromofluorobenzene (S)	%	115	80-120	03/23/22 08:35	
Toluene-d8 (S)	%	98	80-120	03/23/22 08:35	

LABORATORY CONTROL SAMPLE: 3101065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	100	100	100	80-130	
1,1,1-Trichloroethane	ug/kg	100	98.2	98	75-130	
1,1,2,2-Tetrachloroethane	ug/kg	100	114	114	75-120	
1,1,2-Trichloroethane	ug/kg	100	103	103	80-120	
1,1-Dichloroethane	ug/kg	100	100	100	75-125	
1,1-Dichloroethene	ug/kg	100	87.5	88	70-130	
1,1-Dichloropropene	ug/kg	100	102	102	60-140	
1,2,3-Trichlorobenzene	ug/kg	100	93.3	93	80-125	
1,2,3-Trichloropropane	ug/kg	100	109	109	80-120	
1,2,4-Trichlorobenzene	ug/kg	100	92.4	92	80-125	
1,2,4-Trimethylbenzene	ug/kg	100	108	108	80-125	
1,2-Dibromo-3-chloropropane	ug/kg	100	108	108	75-135	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3101065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	100	103	103	80-125	
1,2-Dichlorobenzene	ug/kg	100	102	102	80-120	
1,2-Dichloroethane	ug/kg	100	103	103	80-120	
1,2-Dichloroethene (Total)	ug/kg	200	194	97	80-120	
1,2-Dichloropropane	ug/kg	100	108	108	80-120	
1,3,5-Trimethylbenzene	ug/kg	100	108	108	80-125	
1,3-Dichlorobenzene	ug/kg	100	104	104	80-120	
1,3-Dichloropropane	ug/kg	100	106	106	80-120	
1,4-Dichlorobenzene	ug/kg	100	102	102	80-120	
2,2-Dichloropropane	ug/kg	100	103	103	75-130	
2-Butanone (MEK)	ug/kg	500	596	119	60-135	
2-Chlorotoluene	ug/kg	100	106	106	80-120	
2-Hexanone	ug/kg	500	620	124	70-135	
4-Chlorotoluene	ug/kg	100	107	107	80-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	500	612	122	75-130	
Acetone	ug/kg	500	570	114	50-150	
Benzene	ug/kg	100	102	102	80-120	
Bromobenzene	ug/kg	100	101	101	80-120	
Bromochloromethane	ug/kg	100	95.9	96	75-120	
Bromodichloromethane	ug/kg	100	105	105	80-125	
Bromoform	ug/kg	100	99.9	100	80-135	
Bromomethane	ug/kg	100	68.6	69	35-135	
Carbon disulfide	ug/kg	100	86.7	87	65-140	
Carbon tetrachloride	ug/kg	100	98.8	99	75-140	
Chlorobenzene	ug/kg	100	99.7	100	80-120	
Chloroethane	ug/kg	100	87.4	87	50-135	
Chloroform	ug/kg	100	98.5	99	80-120	
Chloromethane	ug/kg	100	73.3	73	15-155	
cis-1,2-Dichloroethene	ug/kg	100	98.6	99	80-120	
cis-1,3-Dichloropropene	ug/kg	100	113	113	80-125	
Dibromochloromethane	ug/kg	100	104	104	80-130	
Dibromomethane	ug/kg	100	101	101	80-120	
Dichlorodifluoromethane	ug/kg	100	54.8	55	10-160	
Ethylbenzene	ug/kg	100	102	102	80-120	
Hexachloro-1,3-butadiene	ug/kg	100	96.4	96	80-135	
Isopropylbenzene (Cumene)	ug/kg	100	104	104	75-135	
Methyl-tert-butyl ether	ug/kg	100	103	103	75-130	
Methylene Chloride	ug/kg	100	96.4	96	65-120	
n-Butylbenzene	ug/kg	100	114	114	80-135	
n-Propylbenzene	ug/kg	100	109	109	80-125	
Naphthalene	ug/kg	100	100	100	80-120	
p-Isopropyltoluene	ug/kg	100	109	109	65-145	
sec-Butylbenzene	ug/kg	100	109	109	80-135	
Styrene	ug/kg	100	104	104	85-125	
tert-Butylbenzene	ug/kg	100	109	109	80-125	
Tetrachloroethene	ug/kg	100	92.4	92	80-130	
Toluene	ug/kg	100	99.1	99	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3101065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/kg	100	95.1	95	75-125	
trans-1,3-Dichloropropene	ug/kg	100	110	110	80-130	
Trichloroethene	ug/kg	100	100	100	80-125	
Trichlorofluoromethane	ug/kg	100	79.2	79	65-135	
Vinyl chloride	ug/kg	100	76.9	77	35-145	
Xylene (Total)	ug/kg	300	305	102	80-120	
1,2-Dichlorobenzene-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

QC Batch: 776841
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60395120006, 60395120009, 60395120013, 60395120020, 60395120021, 60395120022

METHOD BLANK: 3099906 Matrix: Solid
Associated Lab Samples: 60395120006, 60395120009, 60395120013, 60395120020, 60395120021, 60395120022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<20.2	250	03/21/22 19:49	
1,1,1-Trichloroethane	ug/kg	<20.8	250	03/21/22 19:49	
1,1,2,2-Tetrachloroethane	ug/kg	<21.2	250	03/21/22 19:49	
1,1,2-Trichloroethane	ug/kg	<31.3	250	03/21/22 19:49	
1,1-Dichloroethane	ug/kg	<89.3	250	03/21/22 19:49	
1,1-Dichloroethene	ug/kg	<25.6	250	03/21/22 19:49	
1,1-Dichloropropene	ug/kg	<22.2	250	03/21/22 19:49	
1,2,3-Trichlorobenzene	ug/kg	<72.3	250	03/21/22 19:49	
1,2,3-Trichloropropane	ug/kg	<28.1	250	03/21/22 19:49	
1,2,4-Trichlorobenzene	ug/kg	<56.2	250	03/21/22 19:49	
1,2,4-Trimethylbenzene	ug/kg	<29.5	250	03/21/22 19:49	
1,2-Dibromo-3-chloropropane	ug/kg	<55.9	500	03/21/22 19:49	
1,2-Dibromoethane (EDB)	ug/kg	<18.3	250	03/21/22 19:49	
1,2-Dichlorobenzene	ug/kg	<38.5	250	03/21/22 19:49	
1,2-Dichloroethane	ug/kg	<17.7	250	03/21/22 19:49	
1,2-Dichloroethene (Total)	ug/kg	<42.1	250	03/21/22 19:49	
1,2-Dichloropropane	ug/kg	<18.6	250	03/21/22 19:49	
1,3,5-Trimethylbenzene	ug/kg	<35.7	250	03/21/22 19:49	
1,3-Dichlorobenzene	ug/kg	<37.7	250	03/21/22 19:49	
1,3-Dichloropropane	ug/kg	<19.3	250	03/21/22 19:49	
1,4-Dichlorobenzene	ug/kg	<38.2	250	03/21/22 19:49	
2,2-Dichloropropane	ug/kg	<20.2	250	03/21/22 19:49	
2-Butanone (MEK)	ug/kg	<114	500	03/21/22 19:49	
2-Chlorotoluene	ug/kg	<27.7	250	03/21/22 19:49	
2-Hexanone	ug/kg	<97.2	1000	03/21/22 19:49	
4-Chlorotoluene	ug/kg	<35.3	250	03/21/22 19:49	
4-Methyl-2-pentanone (MIBK)	ug/kg	<91.8	500	03/21/22 19:49	
Acetone	ug/kg	<217	1000	03/21/22 19:49	
Benzene	ug/kg	<21.0	250	03/21/22 19:49	
Bromobenzene	ug/kg	<30.1	250	03/21/22 19:49	
Bromochloromethane	ug/kg	<26.7	250	03/21/22 19:49	
Bromodichloromethane	ug/kg	<18.9	250	03/21/22 19:49	
Bromoform	ug/kg	<15.1	250	03/21/22 19:49	
Bromomethane	ug/kg	<146	250	03/21/22 19:49	
Carbon disulfide	ug/kg	<26.3	250	03/21/22 19:49	
Carbon tetrachloride	ug/kg	<23.6	250	03/21/22 19:49	
Chlorobenzene	ug/kg	<24.8	250	03/21/22 19:49	
Chloroethane	ug/kg	<38.2	250	03/21/22 19:49	
Chloroform	ug/kg	<20.1	250	03/21/22 19:49	
Chloromethane	ug/kg	<61.0	250	03/21/22 19:49	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

METHOD BLANK: 3099906 Matrix: Solid
Associated Lab Samples: 60395120006, 60395120009, 60395120013, 60395120020, 60395120021, 60395120022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/kg	<23.3	250	03/21/22 19:49	
cis-1,3-Dichloropropene	ug/kg	<20.6	250	03/21/22 19:49	
Dibromochloromethane	ug/kg	<21.2	250	03/21/22 19:49	
Dibromomethane	ug/kg	<25.5	250	03/21/22 19:49	
Dichlorodifluoromethane	ug/kg	<39.5	250	03/21/22 19:49	
Ethylbenzene	ug/kg	<26.1	250	03/21/22 19:49	
Hexachloro-1,3-butadiene	ug/kg	<63.6	250	03/21/22 19:49	
Isopropylbenzene (Cumene)	ug/kg	<34.9	250	03/21/22 19:49	
Methyl-tert-butyl ether	ug/kg	<24.9	250	03/21/22 19:49	
Methylene Chloride	ug/kg	<234	250	03/21/22 19:49	
n-Butylbenzene	ug/kg	<45.6	250	03/21/22 19:49	
n-Propylbenzene	ug/kg	<36.5	250	03/21/22 19:49	
Naphthalene	ug/kg	<68.6	500	03/21/22 19:49	
p-Isopropyltoluene	ug/kg	<37.6	250	03/21/22 19:49	
sec-Butylbenzene	ug/kg	<38.0	250	03/21/22 19:49	
Styrene	ug/kg	<42.4	250	03/21/22 19:49	
tert-Butylbenzene	ug/kg	<31.8	1250	03/21/22 19:49	
Tetrachloroethene	ug/kg	<22.5	250	03/21/22 19:49	
Toluene	ug/kg	<23.0	250	03/21/22 19:49	
trans-1,2-Dichloroethene	ug/kg	<18.9	250	03/21/22 19:49	
trans-1,3-Dichloropropene	ug/kg	<17.9	250	03/21/22 19:49	
Trichloroethene	ug/kg	<21.9	250	03/21/22 19:49	
Trichlorofluoromethane	ug/kg	<26.3	250	03/21/22 19:49	
Vinyl chloride	ug/kg	<25.5	250	03/21/22 19:49	
Xylene (Total)	ug/kg	<82.1	250	03/21/22 19:49	
1,2-Dichlorobenzene-d4 (S)	%	100	80-120	03/21/22 19:49	
4-Bromofluorobenzene (S)	%	111	83-119	03/21/22 19:49	
Toluene-d8 (S)	%	98	80-120	03/21/22 19:49	

METHOD BLANK: 3100196 Matrix: Solid
Associated Lab Samples: 60395120006, 60395120009, 60395120013, 60395120020, 60395120021, 60395120022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<20.2	250	03/22/22 10:03	
1,1,1-Trichloroethane	ug/kg	<20.8	250	03/22/22 10:03	
1,1,2,2-Tetrachloroethane	ug/kg	<21.2	250	03/22/22 10:03	
1,1,2-Trichloroethane	ug/kg	<31.3	250	03/22/22 10:03	
1,1-Dichloroethane	ug/kg	<89.3	250	03/22/22 10:03	
1,1-Dichloroethene	ug/kg	<25.6	250	03/22/22 10:03	
1,1-Dichloropropene	ug/kg	<22.2	250	03/22/22 10:03	
1,2,3-Trichlorobenzene	ug/kg	<72.3	250	03/22/22 10:03	
1,2,3-Trichloropropane	ug/kg	<28.1	250	03/22/22 10:03	
1,2,4-Trichlorobenzene	ug/kg	<56.2	250	03/22/22 10:03	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

METHOD BLANK: 3100196 Matrix: Solid
Associated Lab Samples: 60395120006, 60395120009, 60395120013, 60395120020, 60395120021, 60395120022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<29.5	250	03/22/22 10:03	
1,2-Dibromo-3-chloropropane	ug/kg	<55.9	500	03/22/22 10:03	
1,2-Dibromoethane (EDB)	ug/kg	<18.3	250	03/22/22 10:03	
1,2-Dichlorobenzene	ug/kg	<38.5	250	03/22/22 10:03	
1,2-Dichloroethane	ug/kg	<17.7	250	03/22/22 10:03	
1,2-Dichloroethene (Total)	ug/kg	<42.1	250	03/22/22 10:03	
1,2-Dichloropropane	ug/kg	<18.6	250	03/22/22 10:03	
1,3,5-Trimethylbenzene	ug/kg	<35.7	250	03/22/22 10:03	
1,3-Dichlorobenzene	ug/kg	<37.7	250	03/22/22 10:03	
1,3-Dichloropropane	ug/kg	<19.3	250	03/22/22 10:03	
1,4-Dichlorobenzene	ug/kg	<38.2	250	03/22/22 10:03	
2,2-Dichloropropane	ug/kg	<20.2	250	03/22/22 10:03	
2-Butanone (MEK)	ug/kg	<114	500	03/22/22 10:03	
2-Chlorotoluene	ug/kg	<27.7	250	03/22/22 10:03	
2-Hexanone	ug/kg	<97.2	1000	03/22/22 10:03	
4-Chlorotoluene	ug/kg	<35.3	250	03/22/22 10:03	
4-Methyl-2-pentanone (MIBK)	ug/kg	<91.8	500	03/22/22 10:03	
Acetone	ug/kg	<217	1000	03/22/22 10:03	
Benzene	ug/kg	<21.0	250	03/22/22 10:03	
Bromobenzene	ug/kg	<30.1	250	03/22/22 10:03	
Bromochloromethane	ug/kg	<26.7	250	03/22/22 10:03	
Bromodichloromethane	ug/kg	<18.9	250	03/22/22 10:03	
Bromoform	ug/kg	<15.1	250	03/22/22 10:03	
Bromomethane	ug/kg	<146	250	03/22/22 10:03	
Carbon disulfide	ug/kg	<26.3	250	03/22/22 10:03	
Carbon tetrachloride	ug/kg	<23.6	250	03/22/22 10:03	
Chlorobenzene	ug/kg	<24.8	250	03/22/22 10:03	
Chloroethane	ug/kg	<38.2	250	03/22/22 10:03	
Chloroform	ug/kg	<20.1	250	03/22/22 10:03	
Chloromethane	ug/kg	<61.0	250	03/22/22 10:03	
cis-1,2-Dichloroethene	ug/kg	<23.3	250	03/22/22 10:03	
cis-1,3-Dichloropropene	ug/kg	<20.6	250	03/22/22 10:03	
Dibromochloromethane	ug/kg	<21.2	250	03/22/22 10:03	
Dibromomethane	ug/kg	<25.5	250	03/22/22 10:03	
Dichlorodifluoromethane	ug/kg	<39.5	250	03/22/22 10:03	
Ethylbenzene	ug/kg	<26.1	250	03/22/22 10:03	
Hexachloro-1,3-butadiene	ug/kg	<63.6	250	03/22/22 10:03	
Isopropylbenzene (Cumene)	ug/kg	<34.9	250	03/22/22 10:03	
Methyl-tert-butyl ether	ug/kg	<24.9	250	03/22/22 10:03	
Methylene Chloride	ug/kg	<234	250	03/22/22 10:03	
n-Butylbenzene	ug/kg	<45.6	250	03/22/22 10:03	
n-Propylbenzene	ug/kg	<36.5	250	03/22/22 10:03	
Naphthalene	ug/kg	<68.6	500	03/22/22 10:03	
p-Isopropyltoluene	ug/kg	<37.6	250	03/22/22 10:03	
sec-Butylbenzene	ug/kg	<38.0	250	03/22/22 10:03	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

METHOD BLANK: 3100196 Matrix: Solid
Associated Lab Samples: 60395120006, 60395120009, 60395120013, 60395120020, 60395120021, 60395120022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Styrene	ug/kg	<42.4	250	03/22/22 10:03	
tert-Butylbenzene	ug/kg	<31.8	1250	03/22/22 10:03	
Tetrachloroethene	ug/kg	<22.5	250	03/22/22 10:03	
Toluene	ug/kg	<23.0	250	03/22/22 10:03	
trans-1,2-Dichloroethene	ug/kg	<18.9	250	03/22/22 10:03	
trans-1,3-Dichloropropene	ug/kg	<17.9	250	03/22/22 10:03	
Trichloroethene	ug/kg	<21.9	250	03/22/22 10:03	
Trichlorofluoromethane	ug/kg	<26.3	250	03/22/22 10:03	
Vinyl chloride	ug/kg	<25.5	250	03/22/22 10:03	
Xylene (Total)	ug/kg	<82.1	250	03/22/22 10:03	
1,2-Dichlorobenzene-d4 (S)	%	100	80-120	03/22/22 10:03	
4-Bromofluorobenzene (S)	%	109	83-119	03/22/22 10:03	
Toluene-d8 (S)	%	100	80-120	03/22/22 10:03	

LABORATORY CONTROL SAMPLE: 3099907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	5000	4580	92	80-119	
1,1,1-Trichloroethane	ug/kg	5000	4510	90	77-121	
1,1,2,2-Tetrachloroethane	ug/kg	5000	5390	108	74-116	
1,1,2-Trichloroethane	ug/kg	5000	5030	101	76-115	
1,1-Dichloroethane	ug/kg	5000	4750	95	77-120	
1,1-Dichloroethene	ug/kg	5000	4310	86	66-129	
1,1-Dichloropropene	ug/kg	5000	4740	95	79-121	
1,2,3-Trichlorobenzene	ug/kg	5000	4290	86	80-120	
1,2,3-Trichloropropane	ug/kg	5000	5130	103	74-118	
1,2,4-Trichlorobenzene	ug/kg	5000	4170	83	75-120	
1,2,4-Trimethylbenzene	ug/kg	5000	4700	94	77-116	
1,2-Dibromo-3-chloropropane	ug/kg	5000	5090	102	74-121	
1,2-Dibromoethane (EDB)	ug/kg	5000	5070	101	80-117	
1,2-Dichlorobenzene	ug/kg	5000	4670	93	48-146	
1,2-Dichloroethane	ug/kg	5000	5130	103	74-110	
1,2-Dichloroethene (Total)	ug/kg	10000	9250	93	79-120	
1,2-Dichloropropane	ug/kg	5000	5080	102	79-115	
1,3,5-Trimethylbenzene	ug/kg	5000	4700	94	76-115	
1,3-Dichlorobenzene	ug/kg	5000	4640	93	76-115	
1,3-Dichloropropane	ug/kg	5000	5140	103	75-111	
1,4-Dichlorobenzene	ug/kg	5000	4580	92	73-119	
2,2-Dichloropropane	ug/kg	5000	4540	91	76-121	
2-Butanone (MEK)	ug/kg	25000	32000	128	70-116	L1
2-Chlorotoluene	ug/kg	5000	4580	92	78-117	
2-Hexanone	ug/kg	25000	31600	126	71-117	L1
4-Chlorotoluene	ug/kg	5000	4760	95	77-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	25000	30600	123	73-116	L1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3099907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/kg	25000	29800	119	60-125	
Benzene	ug/kg	5000	4800	96	73-117	
Bromobenzene	ug/kg	5000	4600	92	79-115	
Bromochloromethane	ug/kg	5000	4740	95	76-116	
Bromodichloromethane	ug/kg	5000	5000	100	80-120	
Bromoform	ug/kg	5000	4840	97	77-127	
Bromomethane	ug/kg	5000	3500	70	29-165	
Carbon disulfide	ug/kg	5000	4370	87	54-133	
Carbon tetrachloride	ug/kg	5000	4560	91	78-126	
Chlorobenzene	ug/kg	5000	4570	91	63-130	
Chloroethane	ug/kg	5000	4520	90	31-170	
Chloroform	ug/kg	5000	4700	94	80-118	
Chloromethane	ug/kg	5000	4350	87	10-168	
cis-1,2-Dichloroethene	ug/kg	5000	4720	94	80-117	
cis-1,3-Dichloropropene	ug/kg	5000	5320	106	80-120	
Dibromochloromethane	ug/kg	5000	4890	98	78-122	
Dibromomethane	ug/kg	5000	5110	102	78-119	
Dichlorodifluoromethane	ug/kg	5000	3750	75	10-206	
Ethylbenzene	ug/kg	5000	4620	92	73-121	
Hexachloro-1,3-butadiene	ug/kg	5000	4250	85	75-129	
Isopropylbenzene (Cumene)	ug/kg	5000	4650	93	74-115	
Methyl-tert-butyl ether	ug/kg	5000	5240	105	73-129	
Methylene Chloride	ug/kg	5000	4750	95	70-128	
n-Butylbenzene	ug/kg	5000	4860	97	78-123	
n-Propylbenzene	ug/kg	5000	4690	94	77-120	
Naphthalene	ug/kg	5000	4940	99	76-120	
p-Isopropyltoluene	ug/kg	5000	4700	94	78-117	
sec-Butylbenzene	ug/kg	5000	4720	94	83-126	
Styrene	ug/kg	5000	4780	96	80-117	
tert-Butylbenzene	ug/kg	5000	4650	93	79-117	
Tetrachloroethene	ug/kg	5000	4190	84	72-122	
Toluene	ug/kg	5000	4510	90	77-119	
trans-1,2-Dichloroethene	ug/kg	5000	4540	91	75-123	
trans-1,3-Dichloropropene	ug/kg	5000	5120	102	79-124	
Trichloroethene	ug/kg	5000	4610	92	82-128	
Trichlorofluoromethane	ug/kg	5000	4000	80	56-129	
Vinyl chloride	ug/kg	5000	4330	87	36-176	
Xylene (Total)	ug/kg	15000	13800	92	76-119	
1,2-Dichlorobenzene-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			101	83-119	
Toluene-d8 (S)	%			96	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3100197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	5000	4550	91	80-119	
1,1,1-Trichloroethane	ug/kg	5000	4520	90	77-121	
1,1,2,2-Tetrachloroethane	ug/kg	5000	5210	104	74-116	
1,1,2-Trichloroethane	ug/kg	5000	4900	98	76-115	
1,1-Dichloroethane	ug/kg	5000	4580	92	77-120	
1,1-Dichloroethene	ug/kg	5000	4120	82	66-129	
1,1-Dichloropropene	ug/kg	5000	4660	93	79-121	
1,2,3-Trichlorobenzene	ug/kg	5000	4520	90	80-120	
1,2,3-Trichloropropane	ug/kg	5000	5150	103	74-118	
1,2,4-Trichlorobenzene	ug/kg	5000	4550	91	75-120	
1,2,4-Trimethylbenzene	ug/kg	5000	4670	93	77-116	
1,2-Dibromo-3-chloropropane	ug/kg	5000	5210	104	74-121	
1,2-Dibromoethane (EDB)	ug/kg	5000	4900	98	80-117	
1,2-Dichlorobenzene	ug/kg	5000	4550	91	48-146	
1,2-Dichloroethane	ug/kg	5000	4790	96	74-110	
1,2-Dichloroethene (Total)	ug/kg	10000	9100	91	79-120	
1,2-Dichloropropane	ug/kg	5000	4810	96	79-115	
1,3,5-Trimethylbenzene	ug/kg	5000	4660	93	76-115	
1,3-Dichlorobenzene	ug/kg	5000	4620	92	76-115	
1,3-Dichloropropane	ug/kg	5000	5060	101	75-111	
1,4-Dichlorobenzene	ug/kg	5000	4510	90	73-119	
2,2-Dichloropropane	ug/kg	5000	4750	95	76-121	
2-Butanone (MEK)	ug/kg	25000	29100	117	70-116	L1
2-Chlorotoluene	ug/kg	5000	4570	91	78-117	
2-Hexanone	ug/kg	25000	30100	120	71-117	L1
4-Chlorotoluene	ug/kg	5000	4660	93	77-115	
4-Methyl-2-pentanone (MIBK)	ug/kg	25000	29600	118	73-116	L1
Acetone	ug/kg	25000	27500	110	60-125	
Benzene	ug/kg	5000	4630	93	73-117	
Bromobenzene	ug/kg	5000	4460	89	79-115	
Bromochloromethane	ug/kg	5000	4460	89	76-116	
Bromodichloromethane	ug/kg	5000	4730	95	80-120	
Bromoform	ug/kg	5000	4790	96	77-127	
Bromomethane	ug/kg	5000	3060	61	29-165	
Carbon disulfide	ug/kg	5000	4080	82	54-133	
Carbon tetrachloride	ug/kg	5000	4510	90	78-126	
Chlorobenzene	ug/kg	5000	4560	91	63-130	
Chloroethane	ug/kg	5000	4030	81	31-170	
Chloroform	ug/kg	5000	4530	91	80-118	
Chloromethane	ug/kg	5000	3790	76	10-168	
cis-1,2-Dichloroethene	ug/kg	5000	4660	93	80-117	
cis-1,3-Dichloropropene	ug/kg	5000	5240	105	80-120	
Dibromochloromethane	ug/kg	5000	4810	96	78-122	
Dibromomethane	ug/kg	5000	4870	97	78-119	
Dichlorodifluoromethane	ug/kg	5000	3030	61	10-206	
Ethylbenzene	ug/kg	5000	4600	92	73-121	
Hexachloro-1,3-butadiene	ug/kg	5000	4480	90	75-129	

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3100197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isopropylbenzene (Cumene)	ug/kg	5000	4600	92	74-115	
Methyl-tert-butyl ether	ug/kg	5000	5210	104	73-129	
Methylene Chloride	ug/kg	5000	4390	88	70-128	
n-Butylbenzene	ug/kg	5000	5000	100	78-123	
n-Propylbenzene	ug/kg	5000	4670	93	77-120	
Naphthalene	ug/kg	5000	5040	101	76-120	
p-Isopropyltoluene	ug/kg	5000	4730	95	78-117	
sec-Butylbenzene	ug/kg	5000	4650	93	83-126	
Styrene	ug/kg	5000	4670	93	80-117	
tert-Butylbenzene	ug/kg	5000	4600	92	79-117	
Tetrachloroethene	ug/kg	5000	4350	87	72-122	
Toluene	ug/kg	5000	4490	90	77-119	
trans-1,2-Dichloroethene	ug/kg	5000	4440	89	75-123	
trans-1,3-Dichloropropene	ug/kg	5000	5240	105	79-124	
Trichloroethene	ug/kg	5000	4510	90	82-128	
Trichlorofluoromethane	ug/kg	5000	3740	75	56-129	
Vinyl chloride	ug/kg	5000	3790	76	36-176	
Xylene (Total)	ug/kg	15000	13700	91	76-119	
1,2-Dichlorobenzene-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			100	83-119	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3099908 3099909

Parameter	Units	60395405004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	8050	8050	6840	7460	85	93	12-128	9	59	
1,1,1-Trichloroethane	ug/kg	ND	8050	8050	6500	6840	81	85	15-131	5	75	
1,1,2,2-Tetrachloroethane	ug/kg	ND	8050	8050	8830	9110	110	113	10-132	3	65	
1,1,2-Trichloroethane	ug/kg	ND	8050	8050	8080	8430	100	105	14-132	4	54	
1,1-Dichloroethane	ug/kg	ND	8050	8050	6930	7270	86	90	23-126	5	64	
1,1-Dichloroethene	ug/kg	ND	8050	8050	5940	6060	74	75	20-129	2	80	
1,1-Dichloropropene	ug/kg	ND	8050	8050	6730	6940	84	86	15-127	3	78	
1,2,3-Trichlorobenzene	ug/kg	ND	8050	8050	6910	7430	86	92	10-124	7	67	
1,2,3-Trichloropropane	ug/kg	ND	8050	8050	8590	9140	107	114	19-125	6	51	
1,2,4-Trichlorobenzene	ug/kg	ND	8050	8050	6740	7400	84	92	10-129	9	73	
1,2,4-Trimethylbenzene	ug/kg	ND	8050	8050	7010	7490	87	93	10-124	7	68	
1,2-Dibromo-3-chloropropane	ug/kg	ND	8050	8050	7980	8430	99	105	10-135	6	56	
1,2-Dibromoethane (EDB)	ug/kg	ND	8050	8050	7830	8260	97	103	23-123	5	50	
1,2-Dichlorobenzene	ug/kg	ND	8050	8050	7100	7570	88	94	10-126	6	60	
1,2-Dichloroethane	ug/kg	ND	8050	8050	7710	8170	96	102	27-116	6	45	
1,2-Dichloroethene (Total)	ug/kg	ND	16100	16100	13900	14600	86	90	20-127	5	64	
1,2-Dichloropropane	ug/kg	ND	8050	8050	7600	7890	95	98	21-125	4	57	
1,3,5-Trimethylbenzene	ug/kg	ND	8050	8050	6800	7240	85	90	10-125	6	65	

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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3099908 3099909

Parameter	Units	60395405004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichlorobenzene	ug/kg	ND	8050	8050	7030	7500	87	93	10-126	6	63	
1,3-Dichloropropane	ug/kg	ND	8050	8050	7770	8210	97	102	24-114	6	51	
1,4-Dichlorobenzene	ug/kg	ND	8050	8050	6920	7390	86	92	10-126	7	62	
2,2-Dichloropropane	ug/kg	ND	8050	8050	6520	6870	81	85	17-124	5	70	
2-Butanone (MEK)	ug/kg	ND	40200	40200	30200	32000	75	80	29-120	6	50	
2-Chlorotoluene	ug/kg	ND	8050	8050	6710	7090	83	88	10-138	5	70	
2-Hexanone	ug/kg	ND	40200	40200	32300	33800	80	84	25-121	5	51	
4-Chlorotoluene	ug/kg	ND	8050	8050	6740	7300	84	91	10-112	8	62	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	40200	40200	45600	46900	113	117	23-131	3	50	
Acetone	ug/kg	ND	40200	40200	21800	24300	54	60	15-129	11	49	
Benzene	ug/kg	ND	8050	8050	7080	7400	88	92	17-134	4	53	
Bromobenzene	ug/kg	ND	8050	8050	6940	7510	86	93	10-129	8	63	
Bromochloromethane	ug/kg	ND	8050	8050	7140	7610	89	95	28-118	6	53	
Bromodichloromethane	ug/kg	ND	8050	8050	7340	7850	91	98	21-126	7	59	
Bromoform	ug/kg	ND	8050	8050	7200	7800	89	97	14-127	8	60	
Bromomethane	ug/kg	ND	8050	8050	2850	3020	35	37	10-121	6	67	
Carbon disulfide	ug/kg	ND	8050	8050	5490	5710	68	71	10-122	4	78	
Carbon tetrachloride	ug/kg	ND	8050	8050	6300	6650	78	83	10-134	5	82	
Chlorobenzene	ug/kg	ND	8050	8050	6910	7330	86	91	10-126	6	60	
Chloroethane	ug/kg	ND	8050	8050	3050	2960	37	36	10-133	3	79	
Chloroform	ug/kg	ND	8050	8050	7060	7410	88	92	24-126	5	60	
Chloromethane	ug/kg	ND	8050	8050	4860	5020	60	62	10-125	3	78	
cis-1,2-Dichloroethene	ug/kg	ND	8050	8050	7220	7650	89	94	18-131	6	62	
cis-1,3-Dichloropropene	ug/kg	ND	8050	8050	7930	8600	99	107	24-117	8	60	
Dibromochloromethane	ug/kg	ND	8050	8050	7210	7830	90	97	22-117	8	59	
Dibromomethane	ug/kg	ND	8050	8050	7780	8330	97	104	29-118	7	52	
Dichlorodifluoromethane	ug/kg	ND	8050	8050	3700	3660	46	46	10-161	1	84	
Ethylbenzene	ug/kg	ND	8050	8050	6820	7190	85	89	10-137	5	60	
Hexachloro-1,3-butadiene	ug/kg	ND	8050	8050	6810	7390	85	92	10-124	8	76	
Isopropylbenzene (Cumene)	ug/kg	ND	8050	8050	6820	7190	85	89	10-123	5	72	
Methyl-tert-butyl ether	ug/kg	ND	8050	8050	8150	8790	101	109	31-126	8	42	
Methylene Chloride	ug/kg	ND	8050	8050	7370	7520	92	93	23-117	2	59	
n-Butylbenzene	ug/kg	ND	8050	8050	7210	7580	90	94	10-130	5	78	
n-Propylbenzene	ug/kg	ND	8050	8050	6710	7050	83	88	10-121	5	70	
Naphthalene	ug/kg	ND	8050	8050	7710	8520	96	106	10-131	10	63	
p-Isopropyltoluene	ug/kg	ND	8050	8050	6880	7300	86	91	10-127	6	76	
sec-Butylbenzene	ug/kg	ND	8050	8050	6860	7220	85	89	10-137	5	81	
Styrene	ug/kg	ND	8050	8050	7190	7650	89	95	10-119	6	56	
tert-Butylbenzene	ug/kg	ND	8050	8050	6790	7310	84	91	10-121	7	80	
Tetrachloroethene	ug/kg	ND	8050	8050	6110	6430	76	80	10-131	5	78	
Toluene	ug/kg	ND	8050	8050	6610	7010	81	86	13-131	6	60	
trans-1,2-Dichloroethene	ug/kg	ND	8050	8050	6690	6960	83	87	22-125	4	70	
trans-1,3-Dichloropropene	ug/kg	ND	8050	8050	7810	8340	97	104	20-122	7	54	
Trichloroethene	ug/kg	ND	8050	8050	6780	7060	84	88	14-144	4	69	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3099908 3099909

Parameter	Units	60395405004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Trichlorofluoromethane	ug/kg	ND	8050	8050	5390	5480	67	68	10-134	2	86	
Vinyl chloride	ug/kg	ND	8050	8050	4860	4850	60	60	10-141	0	81	
Xylene (Total)	ug/kg	ND	24100	24100	20200	21500	84	89	10-137	6	58	
1,2-Dichlorobenzene-d4 (S)	%						103	101	80-120			
4-Bromofluorobenzene (S)	%						100	100	83-119			
Toluene-d8 (S)	%						95	97	80-120			

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

QC Batch: 776954 | Analysis Method: EPA 8260B
QC Batch Method: EPA 5035A/5030B | Analysis Description: 8260 MSV 5035A Volatile Organics
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60395120002, 60395120010, 60395120015, 60395120016, 60395120019, 60395120023

METHOD BLANK: 3100306 Matrix: Solid
Associated Lab Samples: 60395120002, 60395120010, 60395120015, 60395120016, 60395120019, 60395120023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	<42.1	250	03/22/22 10:03	
cis-1,2-Dichloroethene	ug/kg	<23.3	250	03/22/22 10:03	
Trichloroethene	ug/kg	<21.9	250	03/22/22 10:03	
1,2-Dichlorobenzene-d4 (S)	%	100	80-120	03/22/22 10:03	
4-Bromofluorobenzene (S)	%	109	83-119	03/22/22 10:03	
Toluene-d8 (S)	%	100	80-120	03/22/22 10:03	

LABORATORY CONTROL SAMPLE: 3100307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/kg	10000	9100	91	79-120	
cis-1,2-Dichloroethene	ug/kg	5000	4660	93	80-117	
Trichloroethene	ug/kg	5000	4510	90	82-128	
1,2-Dichlorobenzene-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			100	83-119	
Toluene-d8 (S)	%			99	80-120	

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

QC Batch: 776434
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60395120007, 60395120008, 60395120012, 60395120017, 60395120024, 60395120025, 60395120026

METHOD BLANK: 3098563 Matrix: Water
Associated Lab Samples: 60395120007, 60395120008, 60395120012, 60395120017, 60395120024, 60395120025, 60395120026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.084	1.0	03/18/22 15:49	
1,1,1-Trichloroethane	ug/L	<0.11	1.0	03/18/22 15:49	
1,1,2,2-Tetrachloroethane	ug/L	<0.15	1.0	03/18/22 15:49	
1,1,2-Trichloroethane	ug/L	<0.14	1.0	03/18/22 15:49	
1,1-Dichloroethane	ug/L	<0.12	1.0	03/18/22 15:49	
1,1-Dichloroethene	ug/L	<0.22	1.0	03/18/22 15:49	
1,1-Dichloropropene	ug/L	<0.14	1.0	03/18/22 15:49	
1,2,3-Trichlorobenzene	ug/L	<0.93	1.0	03/18/22 15:49	
1,2,3-Trichloropropane	ug/L	<0.41	2.5	03/18/22 15:49	
1,2,4-Trichlorobenzene	ug/L	<0.73	1.0	03/18/22 15:49	
1,2,4-Trimethylbenzene	ug/L	<0.32	1.0	03/18/22 15:49	
1,2-Dibromo-3-chloropropane	ug/L	<0.78	2.5	03/18/22 15:49	
1,2-Dibromoethane (EDB)	ug/L	<0.20	1.0	03/18/22 15:49	
1,2-Dichlorobenzene	ug/L	<0.12	1.0	03/18/22 15:49	
1,2-Dichloroethane	ug/L	<0.21	1.0	03/18/22 15:49	
1,2-Dichloroethene (Total)	ug/L	0.85J	1.0	03/18/22 15:49	
1,2-Dichloropropane	ug/L	<0.14	1.0	03/18/22 15:49	
1,3,5-Trimethylbenzene	ug/L	<0.090	1.0	03/18/22 15:49	
1,3-Dichlorobenzene	ug/L	<0.13	1.0	03/18/22 15:49	
1,3-Dichloropropane	ug/L	<0.10	1.0	03/18/22 15:49	
1,4-Dichlorobenzene	ug/L	<0.13	1.0	03/18/22 15:49	
2,2-Dichloropropane	ug/L	<0.16	1.0	03/18/22 15:49	
2-Butanone (MEK)	ug/L	<0.98	10.0	03/18/22 15:49	
2-Chlorotoluene	ug/L	<0.11	1.0	03/18/22 15:49	
2-Hexanone	ug/L	<1.1	10.0	03/18/22 15:49	
4-Chlorotoluene	ug/L	<0.15	1.0	03/18/22 15:49	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.74	10.0	03/18/22 15:49	
Acetone	ug/L	<2.5	10.0	03/18/22 15:49	
Benzene	ug/L	<0.14	1.0	03/18/22 15:49	
Bromobenzene	ug/L	<0.088	1.0	03/18/22 15:49	
Bromochloromethane	ug/L	<0.20	1.0	03/18/22 15:49	
Bromodichloromethane	ug/L	<0.16	1.0	03/18/22 15:49	
Bromoform	ug/L	<0.68	1.0	03/18/22 15:49	
Bromomethane	ug/L	<0.46	5.0	03/18/22 15:49	
Carbon disulfide	ug/L	<0.98	5.0	03/18/22 15:49	
Carbon tetrachloride	ug/L	<0.17	1.0	03/18/22 15:49	
Chlorobenzene	ug/L	<0.089	1.0	03/18/22 15:49	
Chloroethane	ug/L	<0.37	1.0	03/18/22 15:49	
Chloroform	ug/L	<0.22	1.0	03/18/22 15:49	
Chloromethane	ug/L	<0.28	1.0	03/18/22 15:49	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

METHOD BLANK: 3098563 Matrix: Water
Associated Lab Samples: 60395120007, 60395120008, 60395120012, 60395120017, 60395120024, 60395120025, 60395120026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	0.85J	1.0	03/18/22 15:49	
cis-1,3-Dichloropropene	ug/L	<0.078	1.0	03/18/22 15:49	
Dibromochloromethane	ug/L	<0.30	1.0	03/18/22 15:49	
Dibromomethane	ug/L	<0.11	1.0	03/18/22 15:49	
Dichlorodifluoromethane	ug/L	<0.20	1.0	03/18/22 15:49	
Ethylbenzene	ug/L	<0.12	1.0	03/18/22 15:49	
Hexachloro-1,3-butadiene	ug/L	<0.42	1.0	03/18/22 15:49	
Isopropylbenzene (Cumene)	ug/L	<0.097	1.0	03/18/22 15:49	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	03/18/22 15:49	
Methylene Chloride	ug/L	<0.39	1.0	03/18/22 15:49	
n-Butylbenzene	ug/L	<0.15	1.0	03/18/22 15:49	
n-Propylbenzene	ug/L	<0.12	1.0	03/18/22 15:49	
Naphthalene	ug/L	<0.82	10.0	03/18/22 15:49	
p-Isopropyltoluene	ug/L	<0.13	1.0	03/18/22 15:49	
sec-Butylbenzene	ug/L	<0.11	1.0	03/18/22 15:49	
Styrene	ug/L	<0.12	1.0	03/18/22 15:49	
tert-Butylbenzene	ug/L	<0.12	1.0	03/18/22 15:49	
Tetrachloroethene	ug/L	<0.33	1.0	03/18/22 15:49	
Toluene	ug/L	<0.25	1.0	03/18/22 15:49	
trans-1,2-Dichloroethene	ug/L	<0.10	1.0	03/18/22 15:49	
trans-1,3-Dichloropropene	ug/L	<0.18	1.0	03/18/22 15:49	
Trichloroethene	ug/L	0.72J	1.0	03/18/22 15:49	
Trichlorofluoromethane	ug/L	<0.16	1.0	03/18/22 15:49	
Vinyl chloride	ug/L	<0.17	1.0	03/18/22 15:49	
Xylene (Total)	ug/L	<0.28	3.0	03/18/22 15:49	
1,2-Dichlorobenzene-d4 (S)	%	98	80-120	03/18/22 15:49	
4-Bromofluorobenzene (S)	%	98	80-120	03/18/22 15:49	
Toluene-d8 (S)	%	100	80-120	03/18/22 15:49	

LABORATORY CONTROL SAMPLE: 3098564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.1	101	80-120	
1,1,1-Trichloroethane	ug/L	20	19.8	99	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	75-125	
1,1,2-Trichloroethane	ug/L	20	19.8	99	80-120	
1,1-Dichloroethane	ug/L	20	20.6	103	75-125	
1,1-Dichloroethene	ug/L	20	19.7	99	80-120	
1,1-Dichloropropene	ug/L	20	19.4	97	80-125	
1,2,3-Trichlorobenzene	ug/L	20	19.8	99	75-125	
1,2,3-Trichloropropane	ug/L	20	18.1	91	80-125	
1,2,4-Trichlorobenzene	ug/L	20	20.5	102	75-120	
1,2,4-Trimethylbenzene	ug/L	20	20.0	100	80-125	
1,2-Dibromo-3-chloropropane	ug/L	20	16.6	83	70-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3098564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	20	18.9	94	80-120	
1,2-Dichlorobenzene	ug/L	20	20.3	101	80-120	
1,2-Dichloroethane	ug/L	20	19.5	97	75-120	
1,2-Dichloroethene (Total)	ug/L	40	41.3	103	80-120	
1,2-Dichloropropane	ug/L	20	19.7	98	80-125	
1,3,5-Trimethylbenzene	ug/L	20	20.3	102	80-125	
1,3-Dichlorobenzene	ug/L	20	20.9	105	80-120	
1,3-Dichloropropane	ug/L	20	19.5	97	80-120	
1,4-Dichlorobenzene	ug/L	20	20.2	101	80-120	
2,2-Dichloropropane	ug/L	20	21.4	107	60-130	
2-Butanone (MEK)	ug/L	100	70.4	70	40-150	
2-Chlorotoluene	ug/L	20	19.9	99	80-120	
2-Hexanone	ug/L	100	77.1	77	45-150	
4-Chlorotoluene	ug/L	20	20.5	102	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	80.7	81	65-140	
Acetone	ug/L	100	61.2	61	20-175	
Benzene	ug/L	20	20.9	105	80-120	
Bromobenzene	ug/L	20	20.0	100	80-120	
Bromochloromethane	ug/L	20	22.4	112	80-125	
Bromodichloromethane	ug/L	20	19.5	98	80-125	
Bromoform	ug/L	20	18.7	94	60-135	
Bromomethane	ug/L	20	25.6	128	10-165	
Carbon disulfide	ug/L	20	19.0	95	75-135	
Carbon tetrachloride	ug/L	20	20.4	102	80-125	
Chlorobenzene	ug/L	20	20.8	104	80-120	
Chloroethane	ug/L	20	20.8	104	70-130	
Chloroform	ug/L	20	19.9	100	80-120	
Chloromethane	ug/L	20	21.4	107	35-155	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	80-120	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	80-125	
Dibromochloromethane	ug/L	20	19.8	99	70-120	
Dibromomethane	ug/L	20	19.6	98	80-120	
Dichlorodifluoromethane	ug/L	20	19.6	98	50-150	
Ethylbenzene	ug/L	20	20.1	101	80-120	
Hexachloro-1,3-butadiene	ug/L	20	20.1	101	65-135	
Isopropylbenzene (Cumene)	ug/L	20	20.4	102	80-125	
Methyl-tert-butyl ether	ug/L	20	18.6	93	65-130	
Methylene Chloride	ug/L	20	20.9	104	75-120	
n-Butylbenzene	ug/L	20	20.8	104	80-125	
n-Propylbenzene	ug/L	20	20.7	103	80-120	
Naphthalene	ug/L	20	18.7	93	70-120	
p-Isopropyltoluene	ug/L	20	20.4	102	80-135	
sec-Butylbenzene	ug/L	20	20.2	101	80-120	
Styrene	ug/L	20	20.5	103	80-120	
tert-Butylbenzene	ug/L	20	20.1	100	80-120	
Tetrachloroethene	ug/L	20	20.5	103	80-120	
Toluene	ug/L	20	20.9	104	80-120	

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

LABORATORY CONTROL SAMPLE: 3098564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	20.2	101	80-120	
trans-1,3-Dichloropropene	ug/L	20	19.3	97	75-120	
Trichloroethene	ug/L	20	20.9	104	80-120	
Trichlorofluoromethane	ug/L	20	19.3	97	80-130	
Vinyl chloride	ug/L	20	19.1	96	65-130	
Xylene (Total)	ug/L	60	63.3	105	80-120	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			100	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

QC Batch: 775863
QC Batch Method: EPA 3546
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60395120011, 60395120014, 60395120018

METHOD BLANK: 3096780 Matrix: Solid
Associated Lab Samples: 60395120011, 60395120014, 60395120018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<7.9	31.8	03/18/22 12:50	
PCB-1221 (Aroclor 1221)	ug/kg	<7.6	31.8	03/18/22 12:50	
PCB-1232 (Aroclor 1232)	ug/kg	<3.5	31.8	03/18/22 12:50	
PCB-1242 (Aroclor 1242)	ug/kg	<7.7	31.8	03/18/22 12:50	
PCB-1248 (Aroclor 1248)	ug/kg	<2.1	31.8	03/18/22 12:50	
PCB-1254 (Aroclor 1254)	ug/kg	<3.0	31.8	03/18/22 12:50	
PCB-1260 (Aroclor 1260)	ug/kg	<6.3	31.8	03/18/22 12:50	
Decachlorobiphenyl (S)	%	64	35-120	03/18/22 12:50	

LABORATORY CONTROL SAMPLE: 3096781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	158	120	76	65-120	
PCB-1260 (Aroclor 1260)	ug/kg	158	114	72	65-120	
Decachlorobiphenyl (S)	%			66	35-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3096782 3096783

Parameter	Units	60395121001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<277	6090	6050	4400	4380	72	72	30-130	1	40	
PCB-1260 (Aroclor 1260)	ug/kg	<219	6090	6050	3990	3730	66	62	15-155	7	40	
Decachlorobiphenyl (S)	%						59	59	35-120		50	

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

QC Batch: 777467
QC Batch Method: EPA 3546
Analysis Method: EPA 8082
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60395120001, 60395120002, 60395120003, 60395120004

METHOD BLANK: 3102062 Matrix: Solid
Associated Lab Samples: 60395120001, 60395120002, 60395120003, 60395120004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<8.1	32.4	03/25/22 08:47	
PCB-1221 (Aroclor 1221)	ug/kg	<7.7	32.4	03/25/22 08:47	
PCB-1232 (Aroclor 1232)	ug/kg	<3.5	32.4	03/25/22 08:47	
PCB-1242 (Aroclor 1242)	ug/kg	<7.8	32.4	03/25/22 08:47	
PCB-1248 (Aroclor 1248)	ug/kg	<2.1	32.4	03/25/22 08:47	
PCB-1254 (Aroclor 1254)	ug/kg	<3.0	32.4	03/25/22 08:47	
PCB-1260 (Aroclor 1260)	ug/kg	<6.4	32.4	03/25/22 08:47	
Decachlorobiphenyl (S)	%	73	35-120	03/25/22 08:47	

LABORATORY CONTROL SAMPLE: 3102063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	165	143	87	65-120	
PCB-1260 (Aroclor 1260)	ug/kg	165	142	86	65-120	
Decachlorobiphenyl (S)	%			76	35-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3102065 3102066

Parameter	Units	60395610001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<0.17 mg/kg	941	977	830	822	88	84	30-130	1	40	
PCB-1260 (Aroclor 1260)	ug/kg	<0.17 mg/kg	941	977	827	828	88	85	15-155	0	40	
Decachlorobiphenyl (S)	%						74	73	35-120		50	

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REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

QC Batch: 775795
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60395120001

METHOD BLANK: 3096446 Matrix: Solid
Associated Lab Samples: 60395120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	<0.50	0.50	03/16/22 13:26	

SAMPLE DUPLICATE: 3096447

Parameter	Units	60395033001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.7	3.7	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

QC Batch: 775797
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60395120002, 60395120003, 60395120004, 60395120005, 60395120006, 60395120009, 60395120010, 60395120011, 60395120013, 60395120014, 60395120015, 60395120016, 60395120018, 60395120019, 60395120020, 60395120021, 60395120022, 60395120023

METHOD BLANK: 3096449
Matrix: Solid
Associated Lab Samples: 60395120002, 60395120003, 60395120004, 60395120005, 60395120006, 60395120009, 60395120010, 60395120011, 60395120013, 60395120014, 60395120015, 60395120016, 60395120018, 60395120019, 60395120020, 60395120021, 60395120022, 60395120023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	<0.50	0.50	03/16/22 11:18	

SAMPLE DUPLICATE: 3096450

Parameter	Units	60395120002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.2	17.3	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALIFIERS

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1e	The ending continuing calibration for this compound failed twice, confirmed by reanalysis. The results may be biased low. Posted most QC compliant data results.
B	Analyte was detected in the associated method blank.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395120001	DPT-L1	EPA 3546	777467	EPA 8082	777713
60395120002	DPT-L2	EPA 3546	777467	EPA 8082	777713
60395120003	DPT-L3	EPA 3546	777467	EPA 8082	777713
60395120004	DPT-L4	EPA 3546	777467	EPA 8082	777713
60395120011	SED-1	EPA 3546	775863	EPA 8082	776408
60395120014	SED-2	EPA 3546	775863	EPA 8082	776408
60395120018	SED-3	EPA 3546	775863	EPA 8082	776408
60395120001	DPT-L1	EPA 5035A/5030	776545	EPA 8260B	776550
60395120002	DPT-L2	EPA 5035A/5030	776545	EPA 8260B	776550
60395120003	DPT-L3	EPA 5035A/5030	776545	EPA 8260B	776550
60395120004	DPT-L4	EPA 5035A/5030	776607	EPA 8260B	776676
60395120005	DPT-27	EPA 5035A/5030	776545	EPA 8260B	776550
60395120010	DPT-30	EPA 5035A/5030	776545	EPA 8260B	776550
60395120011	SED-1	EPA 5035A/5030	776125	EPA 8260B	776154
60395120014	SED-2	EPA 5035A/5030	776125	EPA 8260B	776154
60395120015	DPT-32	EPA 5035A/5030	776545	EPA 8260B	776550
60395120016	DPT-33	EPA 5035A/5030	776545	EPA 8260B	776550
60395120018	SED-3	EPA 5035A/5030	776125	EPA 8260B	776154
60395120019	DPT-34	EPA 5035A/5030	776545	EPA 8260B	776550
60395120023	DPT-38	EPA 5035A/5030	776545	EPA 8260B	776550
60395120027	TB-2	EPA 5035A/5030	777156	EPA 8260B	777181
60395120028	TB-3	EPA 5035A/5030	777156	EPA 8260B	777181
60395120002	DPT-L2	EPA 5035A/5030B	776954	EPA 8260B	776967
60395120006	DPT-28	EPA 5035A/5030B	776841	EPA 8260B	776862
60395120006	DPT-28	EPA 5035A/5030B	776841	EPA 8260B	776925
60395120009	DPT-29	EPA 5035A/5030B	776841	EPA 8260B	776862
60395120009	DPT-29	EPA 5035A/5030B	776841	EPA 8260B	776925
60395120010	DPT-30	EPA 5035A/5030B	776954	EPA 8260B	776967
60395120013	DPT-31	EPA 5035A/5030B	776841	EPA 8260B	776862
60395120015	DPT-32	EPA 5035A/5030B	776954	EPA 8260B	776967
60395120016	DPT-33	EPA 5035A/5030B	776954	EPA 8260B	776967
60395120019	DPT-34	EPA 5035A/5030B	776954	EPA 8260B	776967
60395120020	DPT-35	EPA 5035A/5030B	776841	EPA 8260B	776862
60395120020	DPT-35	EPA 5035A/5030B	776841	EPA 8260B	776925
60395120021	DPT-36	EPA 5035A/5030B	776841	EPA 8260B	776862
60395120021	DPT-36	EPA 5035A/5030B	776841	EPA 8260B	776925
60395120022	DPT-37	EPA 5035A/5030B	776841	EPA 8260B	776862
60395120022	DPT-37	EPA 5035A/5030B	776841	EPA 8260B	776925
60395120023	DPT-38	EPA 5035A/5030B	776954	EPA 8260B	776967
60395120007	SW-1	EPA 5030B/8260	776434		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TANGLEFOOT LANE
Pace Project No.: 60395120

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60395120008	**SW-1-FD**	EPA 5030B/8260	776434		
60395120012	**SW-2**	EPA 5030B/8260	776434		
60395120017	**SW-3**	EPA 5030B/8260	776434		
60395120024	**RINSATE**	EPA 5030B/8260	776434		
60395120025	**FIELD BLANK**	EPA 5030B/8260	776434		
60395120026	**TB-1**	EPA 5030B/8260	776434		
60395120001	**DPT-L1**	ASTM D2974	775795		
60395120002	**DPT-L2**	ASTM D2974	775797		
60395120003	**DPT-L3**	ASTM D2974	775797		
60395120004	**DPT-L4**	ASTM D2974	775797		
60395120005	**DPT-27**	ASTM D2974	775797		
60395120006	**DPT-28**	ASTM D2974	775797		
60395120009	**DPT-29**	ASTM D2974	775797		
60395120010	**DPT-30**	ASTM D2974	775797		
60395120011	**SED-1**	ASTM D2974	775797		
60395120013	**DPT-31**	ASTM D2974	775797		
60395120014	**SED-2**	ASTM D2974	775797		
60395120015	**DPT-32**	ASTM D2974	775797		
60395120016	**DPT-33**	ASTM D2974	775797		
60395120018	**SED-3**	ASTM D2974	775797		
60395120019	**DPT-34**	ASTM D2974	775797		
60395120020	**DPT-35**	ASTM D2974	775797		
60395120021	**DPT-36**	ASTM D2974	775797		
60395120022	**DPT-37**	ASTM D2974	775797		
60395120023	**DPT-38**	ASTM D2974	775797		

WO# : 60395120

60395120

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-LENE-0009_Sample Condi		
	Revision: 2	Effective Date: 01/12/2022	Issued By: Lenexa

Client Name: Tetra Tech

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☑ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☐ No ☑ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☐

Thermometer Used: T299 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 1.4/2.2 **Corr. Factor** -0.2 **Corrected** 1.2/2.0

Date and initials of person examining contents: JW 3/14/22

Temperature should be above freezing to 6°C

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT / SL	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) **LOT#:**	☐Yes ☐No ☑N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☑Yes ☐No ☐N/A	
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	
Samples from USDA Regulated Area: State: IA	☐Yes ☑No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☑No ☐N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Qualtrax Document ID: 30468

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.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	TETRA TECH EMI	Report To:	Fisher, Emily	Attention:	
Address:	415 Oak	Copy To:	[illegible]	Company Name:	
	Kansas City, MO 64106			Address:	
Email:	emily.fisher@tetratech.com	Purchase Order #:		Pace Quote:	
Phone:	(816)412-1755 Fax:	Project Name:	Tanglefoot Lane	Pace Project Manager:	nolie.wood@pacelabs.com
Requested Due Date:		Project #:	103X00536.21 F0035	Pace Profile #:	

Regulatory Agency	
State / Location	IA

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

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	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	8260 soil full list	PCB	Trip BLANK	8260 Full List	Trip BLANK	Residual Chlorine (Y/N)	60595120
1	DPT-L1	SL	G	03/09/22	1330				4	1						1	2		X						
2	DPT-L2	SL	G	03/09/22	1340				4	1						1	2		X						
3	DPT-L3	SL	G	03/09/22	1355				4	1						1	2		X						
4	DPT-L4	SL	G	03/09/22	1415				4	1						1	2		X						
5	DPT-27	SL	G	03/09/22	1455				4	1						1	2		X						
6	DPT-28	SL	G	03/09/22	1515				4	1						1	2		X						
7	SW-1	WT	G	03/09/22	1520				3				3										X		
8	SW-1-FD	WT	G	03/09/22	1520				3				3										X		
9	DPT-29	SL	G	03/09/22	1530				4	1						1	2		X						
10	DPT-30	SL	G	03/09/22	1550				4	1						1	2		X						
11	SED-1	SL	G	03/09/22	1540				2	2									X	X					
12	SW-2	WT	G	03/09/22	1550				3				3										X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DPT-35 & 36 submitted to be high concentrations	Thomas Kaley / TT	03/11/22	1115	[signature] Pace	3/11/22	1115	1.2	Y	N	A

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Thomas Kaley

SIGNATURE of SAMPLER: [signature]

DATE Signed: 03/11/22

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

Pace Analytical
WWW.PACELABS.COM

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:
Company: TETRA TECH EMI
Address: 415 Oak
Kansas City, MO 64106
Email: emily.fisher@tetratech.com
Phone: (816)412-1755 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Fisher, Emily
Copy To: Thomas.Kaley@tetratech.com
Purchase Order #:
Project Name: Tanglefoot Lane
Project #: 103X06502IFAC55

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: nolie.wood@pacelabs.com,
Pace Profile #:

Regulatory Agency:
State / Location: IA

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 soil full list	PCB	Trip BLANK	8260 Full List	Trip BLANK	Residual Chlorine (Y/N)	
1	DPT-31	SL		03/09/22	1600				4	1						1	2		X						6079512
2	SED-2	SL		03/09/22	1605				2	2									X	X						
3	DPT-32	SL		03/09/22	1615				4	1						1	2		X							
4	DPT-33	SL		03/09/22	1620				4	1						1	2		X							
5	SW-3	WT		03/09/22	1635				3			3							X			X				
6	SED-3	SL		03/09/22	1640				2	2									X	X						
7	DPT-34	SL		03/10/22	0755				4	1						1	2		X							
8	DPT-35	SL		03/10/22	0810				4	1						1	2		X							
9	DPT-36	SL		03/10/22	0820				4	1						1	2		X							
10	DPT-37	SL		03/10/22	0825				4	1						1	2		X						High VOC's	
11	DPT-38	SL		03/10/22	0850				4	1						1	2		X						High VOC's	
12	Rinsate	WT		03/10/22	0915				3			3										X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Thomas Kaley / TT	03/11/22	11:15				

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Thomas Kaley
SIGNATURE of SAMPLER: Thomas Kaley
DATE Signed: 03/11/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	TETRA TECH EMI	Report To:	Fisher, Emily	Attention:	
Address:	415 Oak	Copy To:	Thomas.Kelly@tetratech.com	Company Name:	
	Kansas City, MO 64106			Address:	
Email:	emily.fisher@tetratech.com	Purchase Order #:		Pace Quote:	
Phone:	(816)412-1755 Fax	Project Name:	Tanglefoot Lane	Pace Project Manager:	nolie.wood@pacelabs.com,
Requested Due Date:		Project #:	105X903021F00835	Pace Profile #:	

Regulatory Agency	
State / Location	IA

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 Mini Bisulfate 5035 kit	Trip BLANK	8260 Full List	Trip BLANK	Residual Chlorine (Y/N)	60795120
1	Field Blank	WT		03/10/22	0925				3				3									X			
2	TB-1	WT		03/1/22	1000				2				2									X			
3	TB-2	SL		03/1/22	1005				2				2									X			
4	TB-3	SL		03/11/22	1010				2				2									X			
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Thomas Kelly/TT	03/11/22	11:15				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Thomas Kelly

SIGNATURE of SAMPLER: [signature] DATE Signed: 03/11/22

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

1/3

Client: Tetra Tech

Profile # 970- 1/2

Site:

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other		
1	SL						1	2							1																	
2																																
3																																
4																																
5																																
6																																
7	WT	3																														
8	WT	3																														
9	SL																															
10																																
11																2																
12	WT	3																														

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60395120

2/3

Client: Tetra Tech

Profile # 970 - 1/2

Site:

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other		
1	SL						1	2							1																	
2	↓															2																
3							↓	↓							↓																	
4	↓																															
5	WT	3																														
6	SL															2																
7	↓						↓	↓							1																	
8																																
9																																
10																																
11	↓						↓	↓							↓																	
12	WT	3																														

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	OIL
WP	Wipe
DW	Drinking Water

Work Order Number: 60395120

3/3

Client: Tetra Tech

Profile # 970 - 1/2

Site:

Notes

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other		
1	WT	3																														
2	WT	2																														
3	SL				2																											
4	SL				2																											
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass			
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar
DG9H	40mL HCl amber voa vial	WGFU	4oz clear soil jar
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass
		AG5U	100mL unpres amber glass

Plastic	
BP1C	1L NAOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn Acetate
BP2C	500mL NAOH plastic
BP2N	500mL HNO3 plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Acetate
BP3C	250mL NaOH plastic
BP3F	250mL HNO3 plastic - field filtered
BP3N	250mL HNO3 plastic
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, Zn Acetate
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic
WPDU	16oz unpresserved plstic

Misc.	
I	Wipe/Swab
SP5T	120mL Coliform Na Thiosulfate
ZPLC	Ziploc Bag
AF	Air Filter
C	Air Cassettes
R	Terracore Kit
U	Summa Can

Matrix	
WT	Water
SL	Solid
NAL	Non-aqueous Liquid
OL	Oil
WP	Wipe
DW	Drinking Water

Work Order Number: 60395120

DATA VALIDATION CHECKLIST – STAGE 2A

Site Name	Tanglefoot Lane	**Project No.**	103X903021F0035
Data Reviewer (signature and date)	Tadwell J Steere 04/05/2022	**Technical Reviewer (signature and date)**	Debbie Kuhl 04/07/2022
Laboratory Report No.	60395120	**Laboratory**	Pace Analytical - Lenexa, KS
Analyses	Polychlorinated biphenyls (PCBs) by EPA 8082 and volatile organic compounds (VOCs) by EPA 8260B (soil and sediment) and EPA 8260 (water)		
Samples and Matrix	Twenty-one solid samples including two trip blanks, and seven water samples including one field duplicate, one field blank, one trip blank, and one rinsate blank		
Collection Date(s)	03/09/2022 through 03/11/2022		
Field Duplicate Pairs	SW-1/SW-1-FD		
Field QC Blanks	RINSATE, FIELD BLANK, TB-1, TB-2, and TB-3		

INTRODUCTION

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the U.S. Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the Tetra Tech *Quality Assurance Project Plan (QAPP), Superfund Technical Assessment and Response Team (START V), EPA Region 7* (December 2018) and the EPA *National Functional Guidelines (NFG) for Organic Superfund Methods Data Review* (November 2020).

OVERALL EVALUATION

No rejection of the data was required for this data package. The results may be used as qualified based on the findings of this validation effort.

Data completeness:

Within Criteria	Exceedance/Notes
Y	

Sample preservation, receipt, and holding times:

Within Criteria	Exceedance/Notes
N	There were no custody seals present on the shipping containers. However, the sampler hand delivered the samples to the laboratory; therefore, no qualifications were applied.

Method blanks:

Within Criteria	Exceedance/Notes
N	**VOCs:** **QC Batch 776125.** 1,2,3-Trichlorobenzene, 1,2,4-trichlorobenzene, chloroform, hexachloro-1,3-butadiene, and naphthalene were found in the method blank. The detected 1,2,4-trichlorobenzene result for associated sample SED-1 was qualified as estimated, possibly biased high (flagged J+), and the detected 1,2,3-Trichlorobenzene and chloroform results for associated sample SED-3 were raised to the reporting limit (RL) and qualified as nondetect (flagged U). **QC Batch 776545.** 1,2,3-Trichlorobenzene and 1,2,4-trichlorobenzene were found in the method blank. The detected 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene results for associated sample DPT-L1 and the detected 1,2,3-trichlorobenzene result for sample DPT-L3 were raised to the reporting limit (RL) and qualified as nondetect (flagged U). **QC Batch 776607.** 4-Methyl-2-pentanone was found in the method blank but was not detected in the associated sample. No qualifications were applied. **QC Batch 777156.** 1,2,3-Trichlorobenzene and hexachloro-1,3-butadiene were found in the method blank. Results for these two compounds for associated samples TB-2 and TB-3 are nondetect; therefore, no qualifications were applied. **QC Batch 776434.** Total 1,2-dichloroethene (total 1,2-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), and trichloroethene (TCE) were detected in the method blank. The total 1,2-DCE and cis-1,2-DCE results for associated samples RINSATE, FIELD BLANK, and TB-1 were raised to the RL and qualified as nondetect (flagged U). The total 1,2-DCE and cis-1,2-DCE results for associated samples SW-1, SW-1-FD, and SW-2 were qualified as estimated, possibly biased high (flagged J+). The TCE results for associated samples SW-1, SW-1-FD, SW-2, RINSATE, FIELD BLANK, and TB-1 were raised to the RL and qualified as nondetect (flagged U) and the TCE result for associated sample SW-3 was qualified as estimated, possibly biased high (flagged J+).

Field blanks:

Within Criteria	Exceedance/Notes
N	**<u>VOCs (water):</u>** **TB-1** • Total 1,2-DCE, cis-1,2-DCE, and TCE were detected in TB-1. All were qualified as nondetect due to method blank contamination (see above). No further qualifications were applied. **FIELD BLANK** • Total 1,2-DCE, cis-1,2-DCE, and TCE were detected in FIELD BLANK. All were qualified as nondetect due to method blank contamination (see above). No further qualifications were applied. • Acetone was detected at 5.5 ug/L. Acetone results for associated samples SW-3 and RINSATE were raised to the RL and qualified as not detected (flagged U). **<u>VOCs (soil):</u>** **TB-2** • Toluene was detected at 0.46 ug/kg. Toluene was detected below the RL in samples DPT-L1, DPT-L2, DPT-L4, DPT-27, DPT-30, DPT-31, DPT-33, DPT-34, DPT-38; therefore, toluene results for these samples were raised to the RL and qualified as not detected (flagged U). The remaining toluene results are >10x the amount in the trip blank and were not qualified. **TB-3** • Toluene was detected at 0.50 ug/kg. Toluene was detected below the RL in samples DPT-L1, DPT-L2, DPT-L4, DPT-27, DPT-30, DPT-31, DPT-33, DPT-34, DPT-38; therefore, toluene results for these samples were raised to the RL and qualified as not detected (flagged U). The remaining toluene results are >10x the amount in the trip blank and were not qualified.

Surrogates and labeled compounds:

Within Criteria	Exceedance/Notes
N	**PCBs by 8082:** Decachlorobiphenyl recovery was not calculated for SED-3 due to 50 times sample dilution. Also, the ending continuing calibration failed twice, confirmed by reanalysis. All non-detect results were qualified as estimated (flagged UJ). The Aroclor 1242 result was qualified as estimated, possibly biased low (flagged J-).

MS/MSDs:

Within Criteria	Exceedance/Notes
Y	MS/MSD analysis performed on samples from other packages were not evaluated.

Laboratory duplicates:

Within Criteria	Exceedance/Notes
Y	Laboratory duplicate analysis was performed for percent moisture only, and analysis performed on samples from other packages were not evaluated.

Field duplicates:

Within Criteria	Exceedance/Notes
Y	

LCSs/LCSDs:

Within Criteria	Exceedance/Notes
N	**VOCs (soil)** **LCS 3099907** • 2-Butanone (MEK) had a 128% recovery above the 116% control limit. The 2-butanone results for samples DPT-28, DPT-29, DPT-31, DPT-35, DPT-36, and DPT-37 were qualified as estimated, possibly biased high (flagged J+). • 2-Hexanone had a 126% recovery above the 117% control limit. The 2-hexanone results for the associated samples are nondetect; therefore, no qualifications were applied. • 4-Methyl-2-pentanone (MIBK) had a 123% recovery above the 116% control limit. The associated non-detect sample results were not qualified. The detected 4-Methyl-2-pentanone (MIBK) results for samples DPT-31 and DPT-37 were qualified as estimated, possibly biased high (flagged J+). **LCS 3100197** • 2-Butanone (MEK) had a 117% recovery above the 116% limit. The 2-butanone results for samples DPT-28, DPT-29, DPT-31, DPT-35, DPT-36, and DPT-37 were qualified as estimated, possibly biased high (flagged J+). • 2-Hexanone had a 120% recovery above the 117% limit. The associated sample results are nondetect; therefore, no qualifications were applied. • 2-Methyl-2-pentanone (MIBK) had a 118% recovery above the 116% limit. The associated non-detect sample results were not qualified. The detected 4-Methyl-2-pentanone (MIBK) results for samples DPT-31 and DPT-37 were qualified as estimated, possibly biased high (flagged J+).

Sample dilutions:

Within Criteria	Exceedance/Notes
Y	**VOCs (soil and sediment):** • Toluene and 1,1,1-trichloroethane were reported from a 10-fold dilution for sample DPT-36. • Toluene was reported from a 5-fold dilution for samples DPT-28, DPT-29, and DPT-35. • Toluene, cis-1,2-DCE, and total 1,2-DCE were reported from a 5-fold dilution for sample DPT-37. All PCB analytes were reported from a 50-fold dilution for sample SED-3.

Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
NA	

MDLs/RLs:

Within Criteria	Exceedance/Notes
Y	Analytes detected below the detection limit (DL) were reported as not detected (flagged U) at the DL by the laboratory. Compounds detected between the DL and the practical quantitation limit (PQL; identified as Limit in the EDD) were reported and qualified as estimated (flagged J) by the laboratory. PQLs/RLs are provided in the attached analytical data table and the laboratory data package.

Tentatively identified compounds:

Within Criteria	Exceedance/Notes
NA	

Other [None]:

Within Criteria	Exceedance/Notes
NA	

DATA VALIDATION CHECKLIST – STAGE 2A

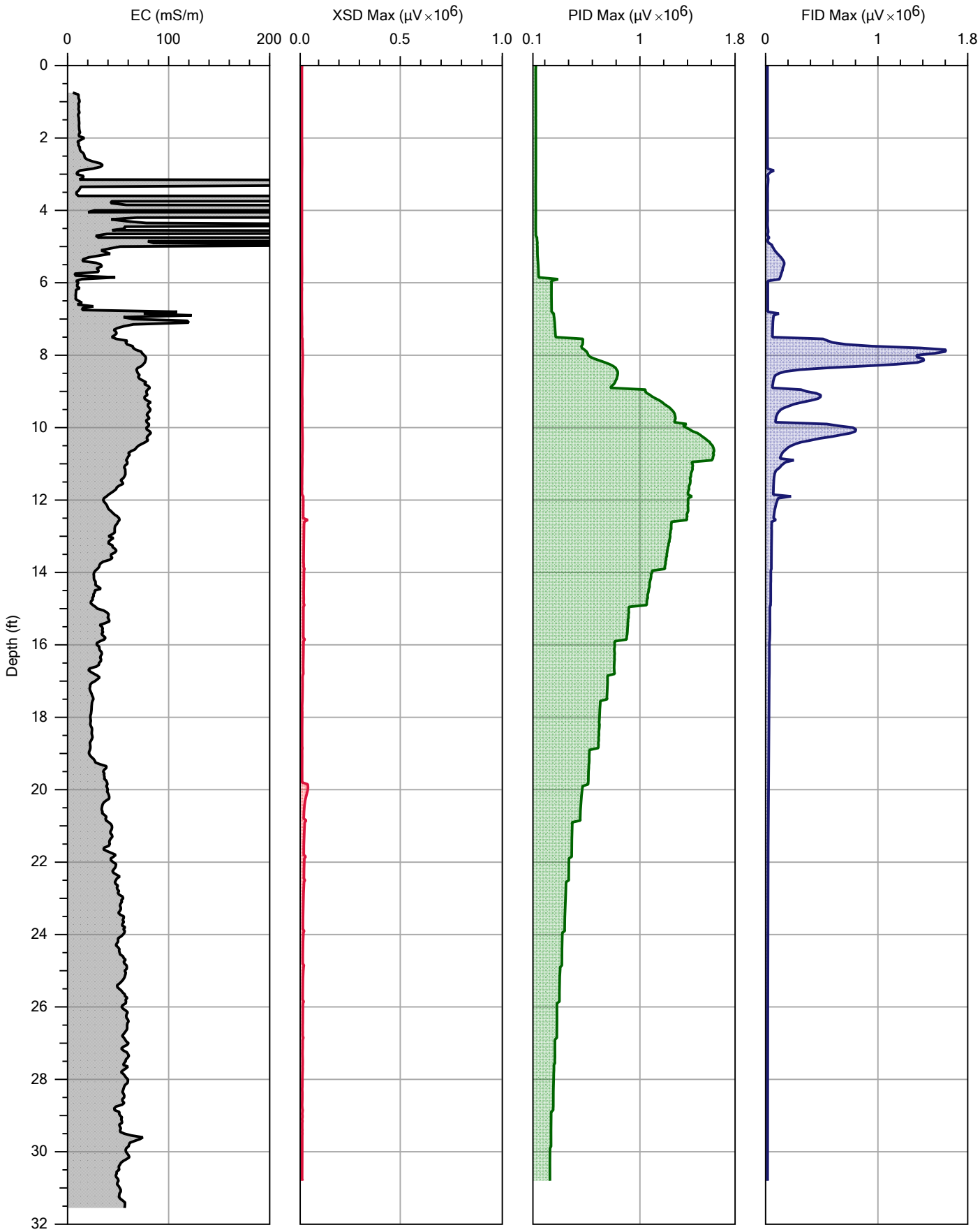
Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

ATTACHMENT 1

BELOW GROUND SURFACE, INC. MEMBRANE INTERFACE PROBE AND ELECTRICAL CONDUCTIVITY LOGS



BGS
BELOW GROUND SURFACE, INC.

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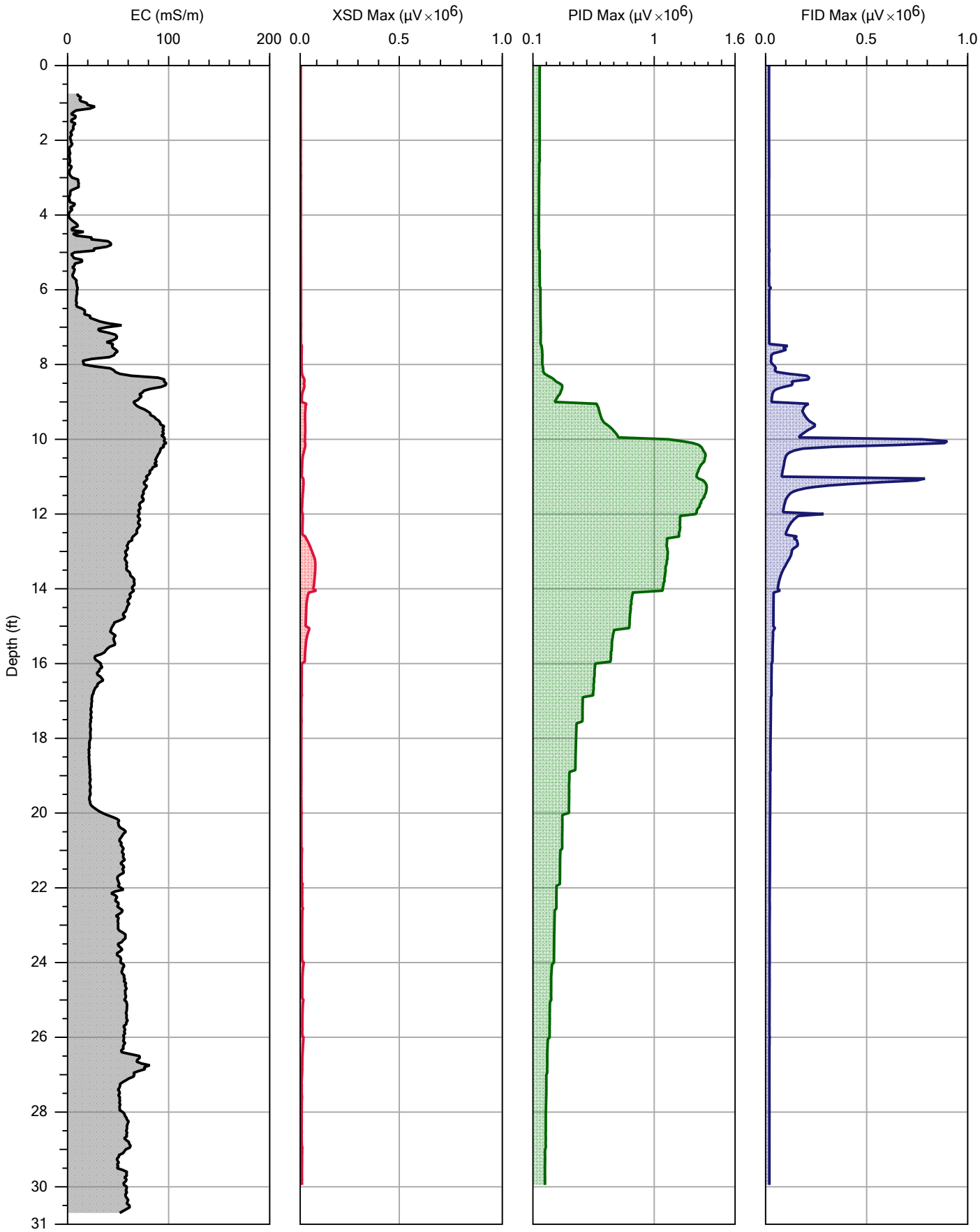
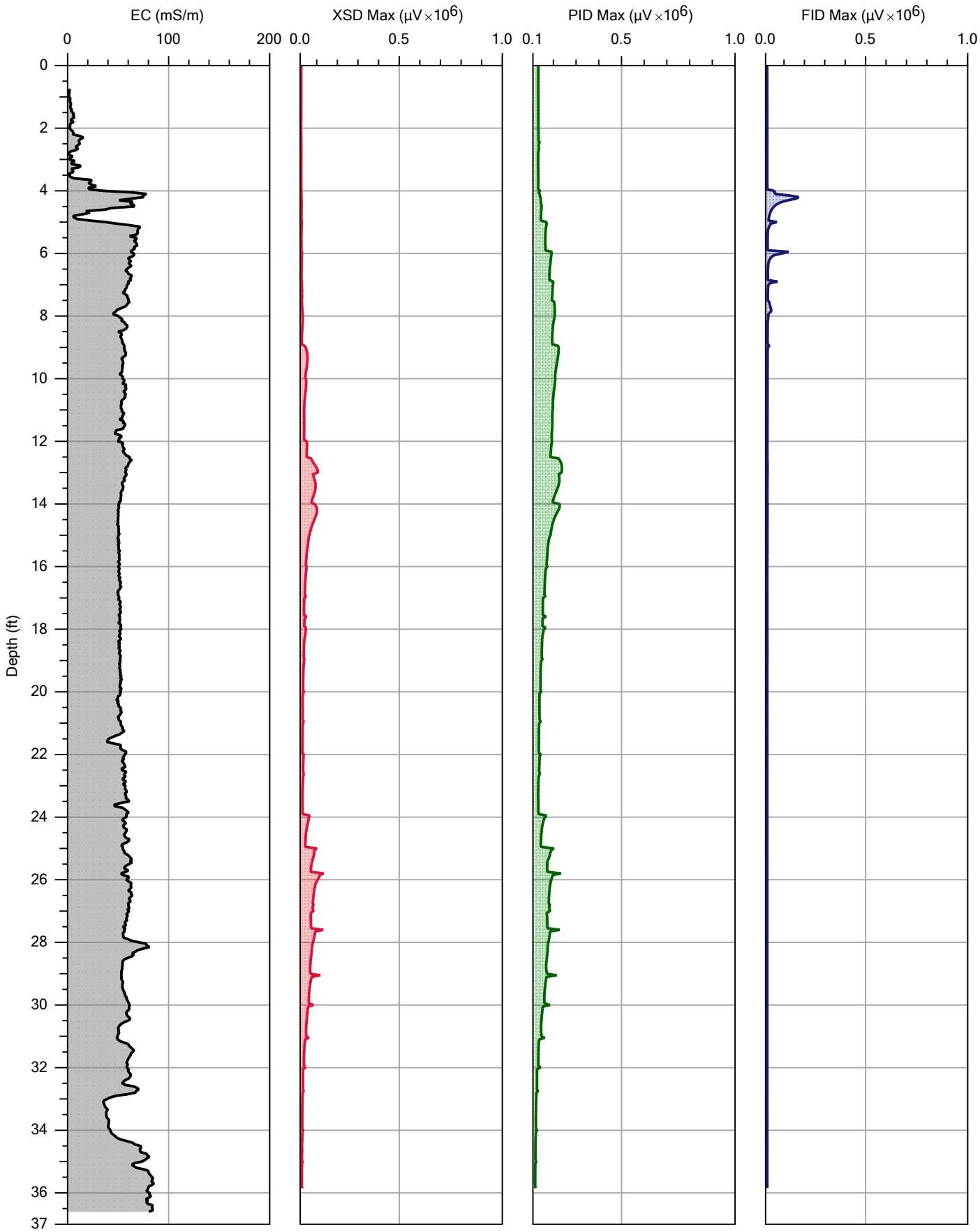
Company: BGS	Operator: MTO	Date: 3/9/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



BGS
BELOW GROUND SURFACE, INC.

Company: BGS	Operator: MTO	File: MIP-L2.MIP
Project ID: Tanglefoot Ln	Client: TetraTech	Date: 3/9/2022
		Location: Bettendorf, IA



BGS
BELOW GROUND SURFACE, INC.

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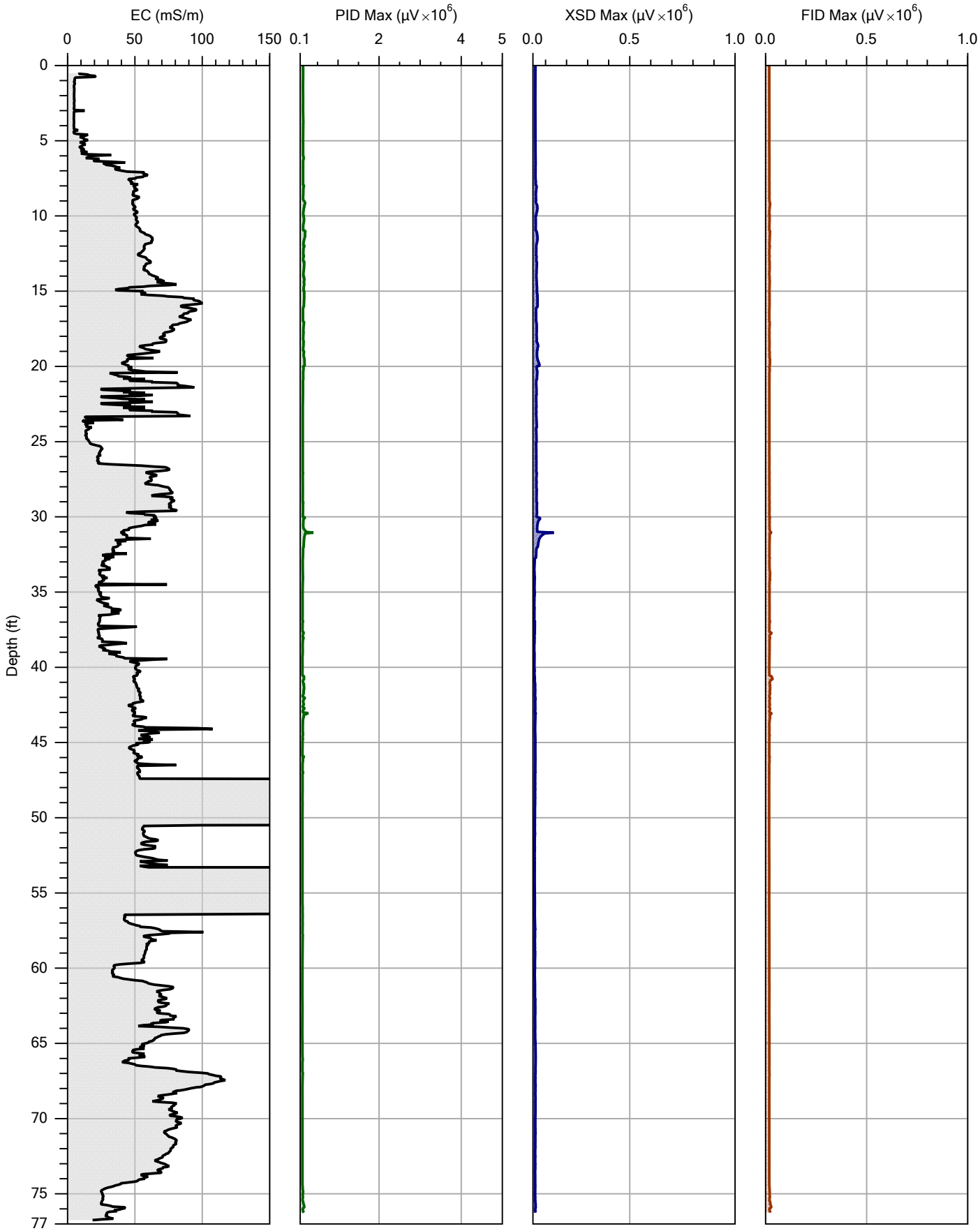
Company: BGS	Operator: MTO	Date: 3/9/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



BGS
BELOW GROUND SURFACE, INC.

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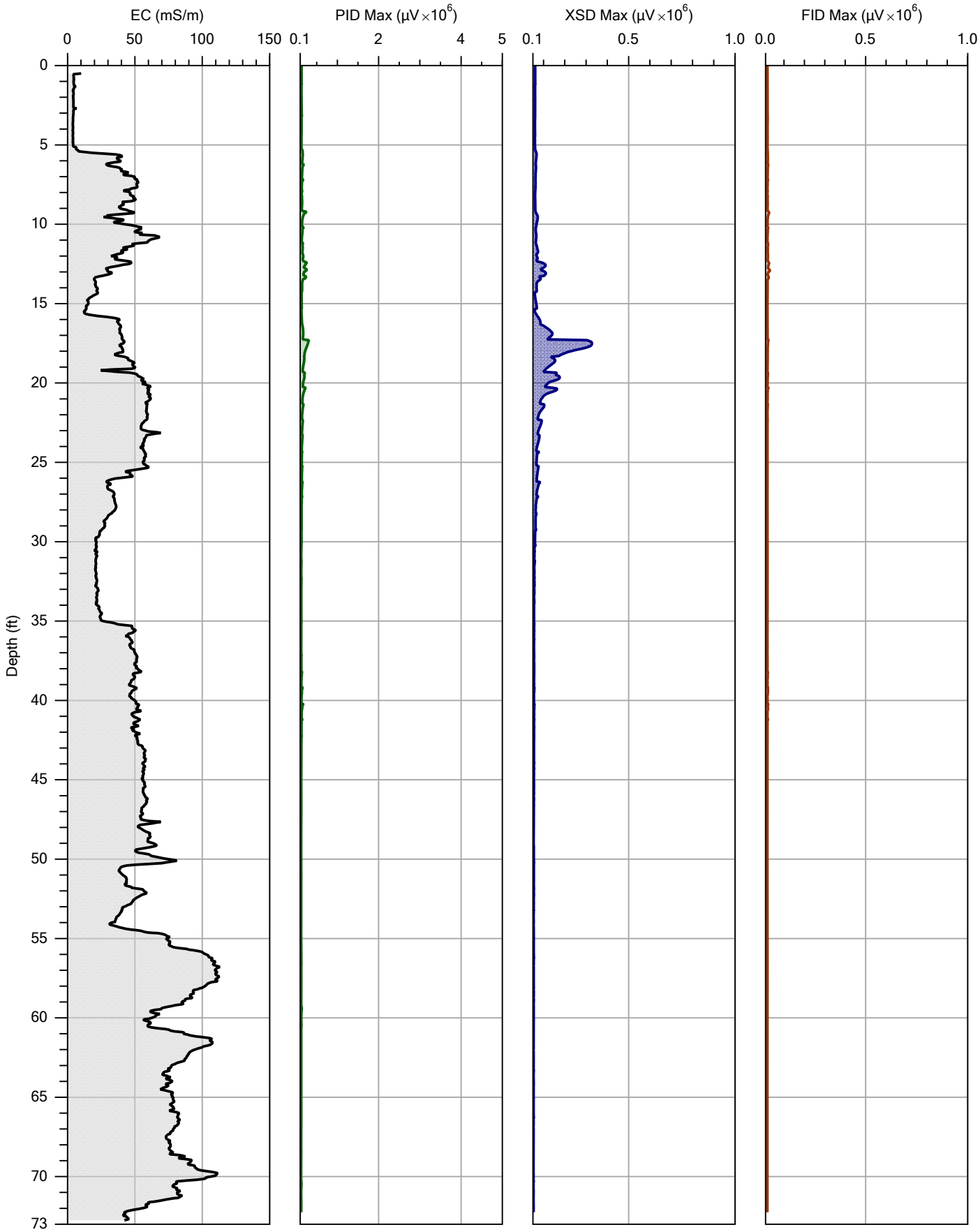
Company: BGS	Operator: MTO	Date: 10/25/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



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BELOW GROUND SURFACE, INC.

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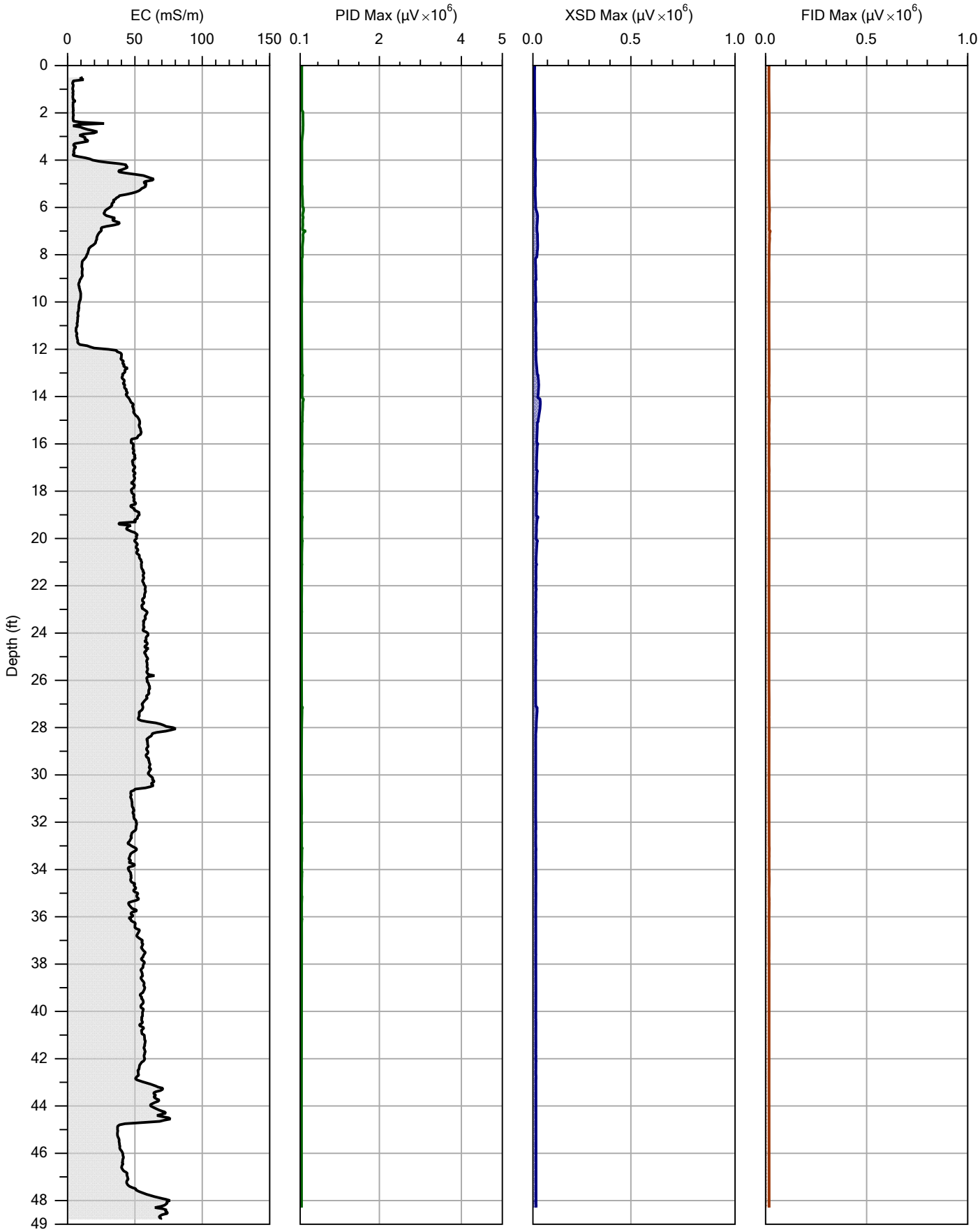
Company: BGS	Operator: MTO	Date: 10/25/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



BGS
BELOW GROUND SURFACE, INC.

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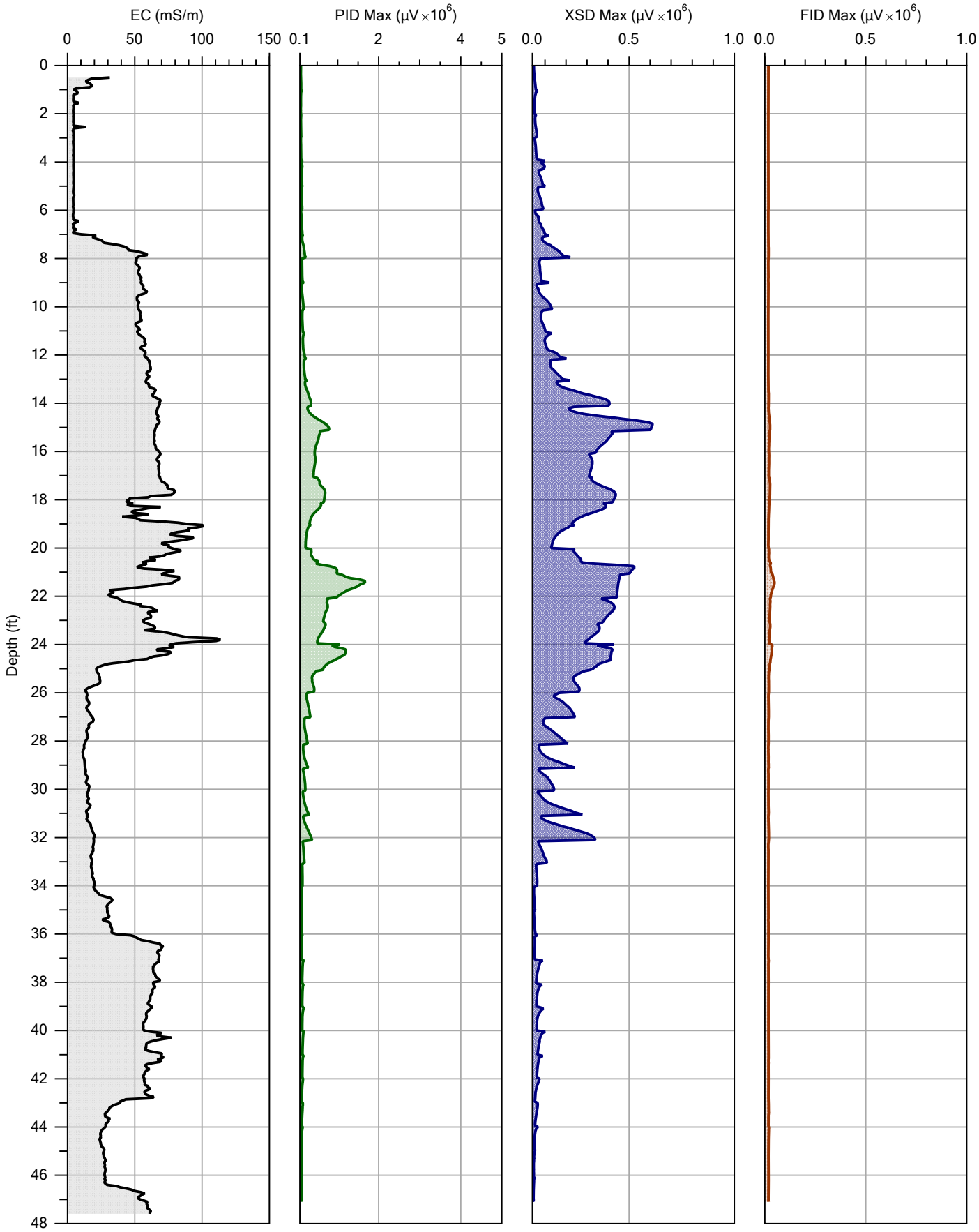
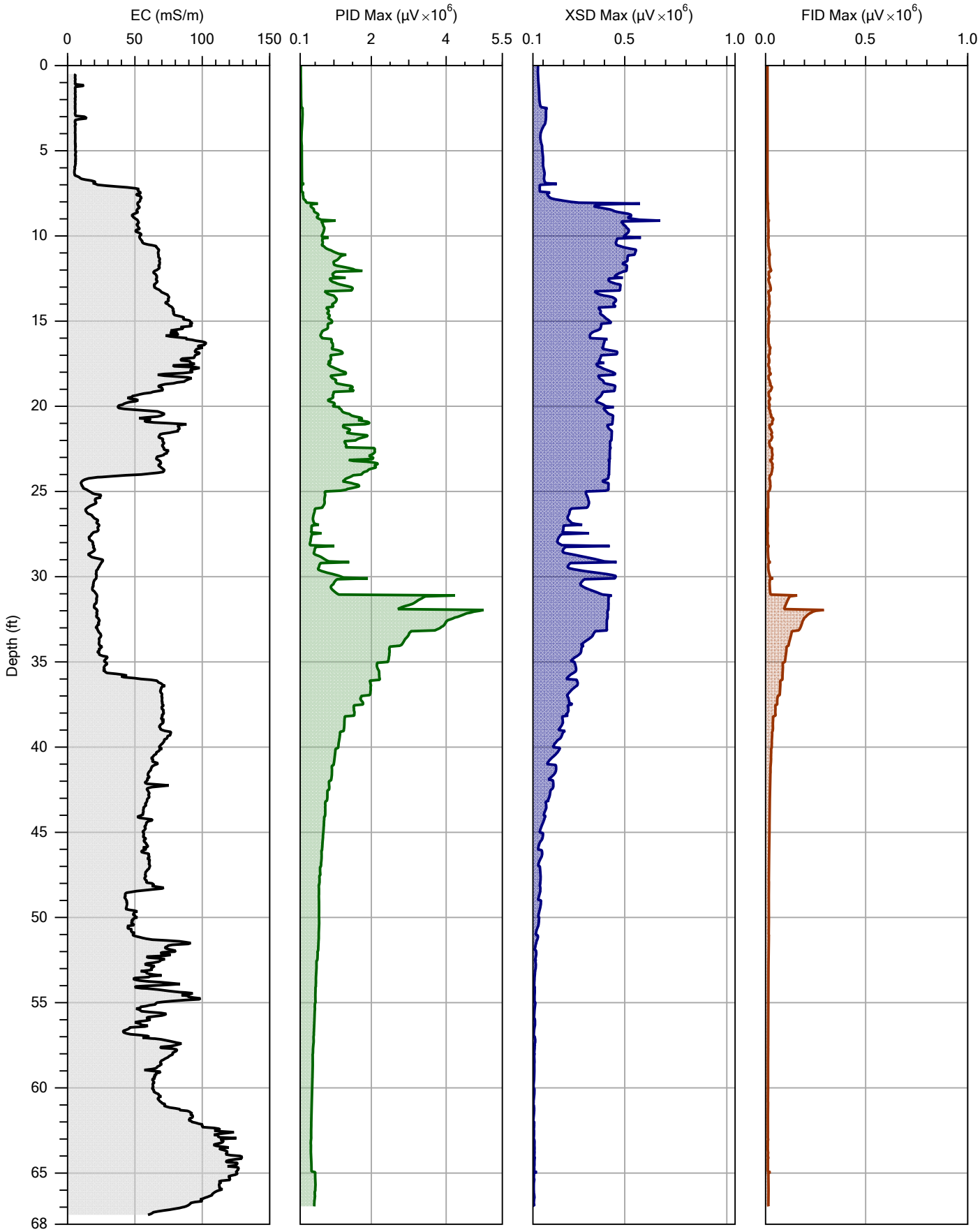
Company: BGS	Operator: MTO	Date: 10/26/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



BGS
BELOW GROUND SURFACE, INC.

Company: BGS	Operator: MTO	File: MIP-4.MIP
Project ID: Tanglefoot Site	Client: TetraTech	Date: 10/26/2021
		Location: Betendorf, IA



BGS
BELOW GROUND SURFACE, INC.

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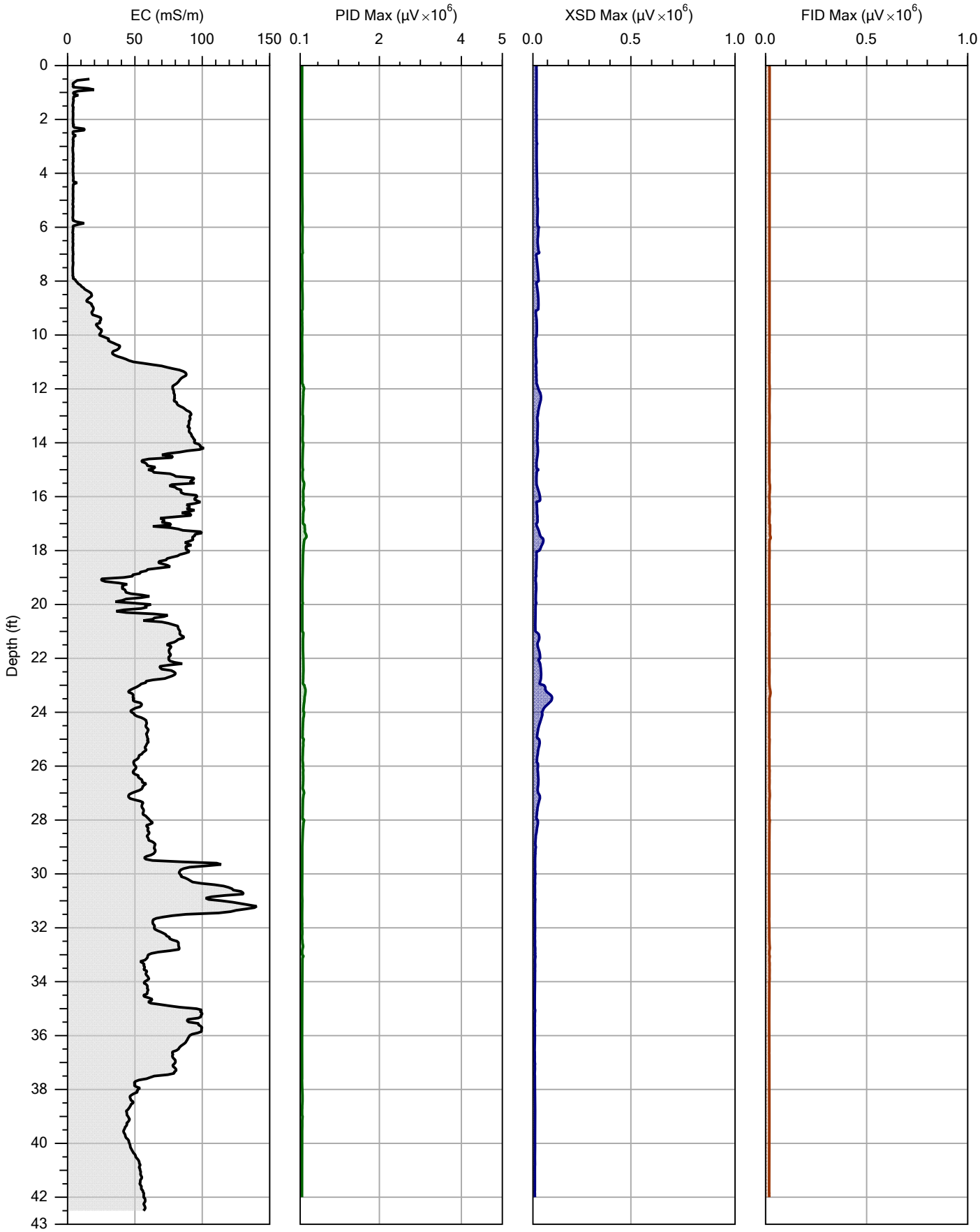
Company: BGS	Operator: MTO	Date: 10/25/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



BGS
BELOW GROUND SURFACE, INC.

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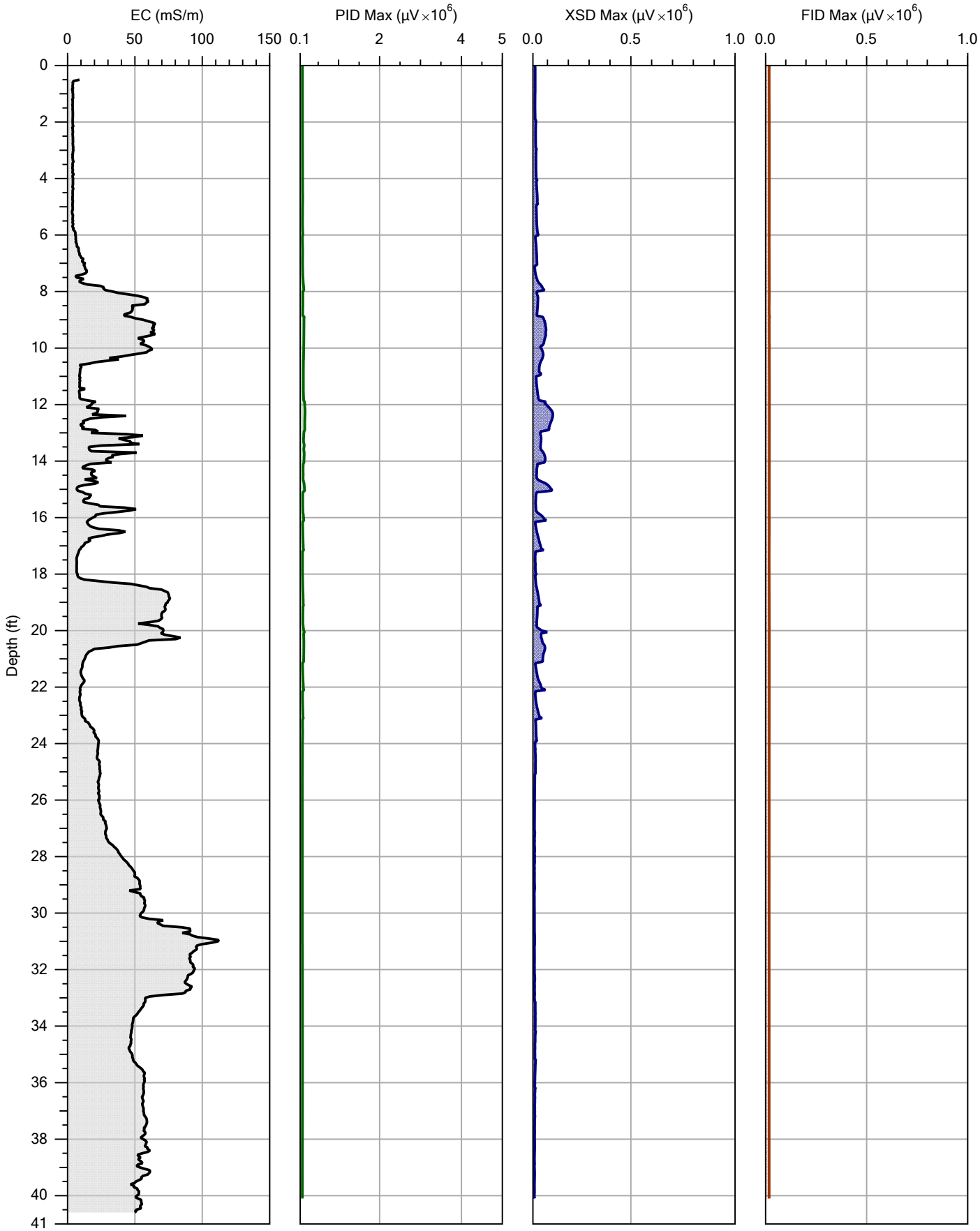
Company: BGS	Operator: MTO	Date: 10/26/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



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BELOW GROUND SURFACE, INC.

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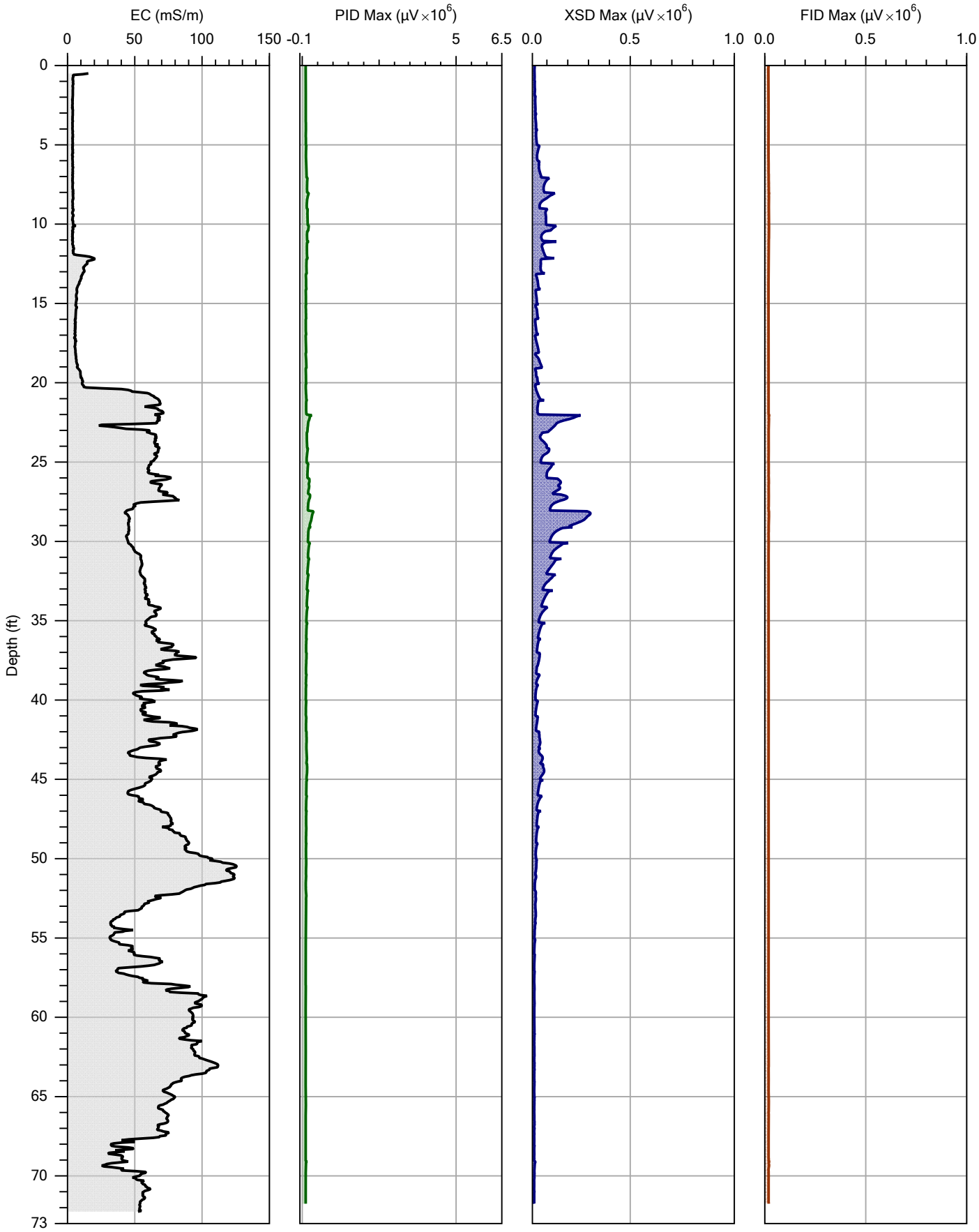
Company: BGS	Operator: MTO	Date: 10/26/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



BGS
BELOW GROUND SURFACE, INC.

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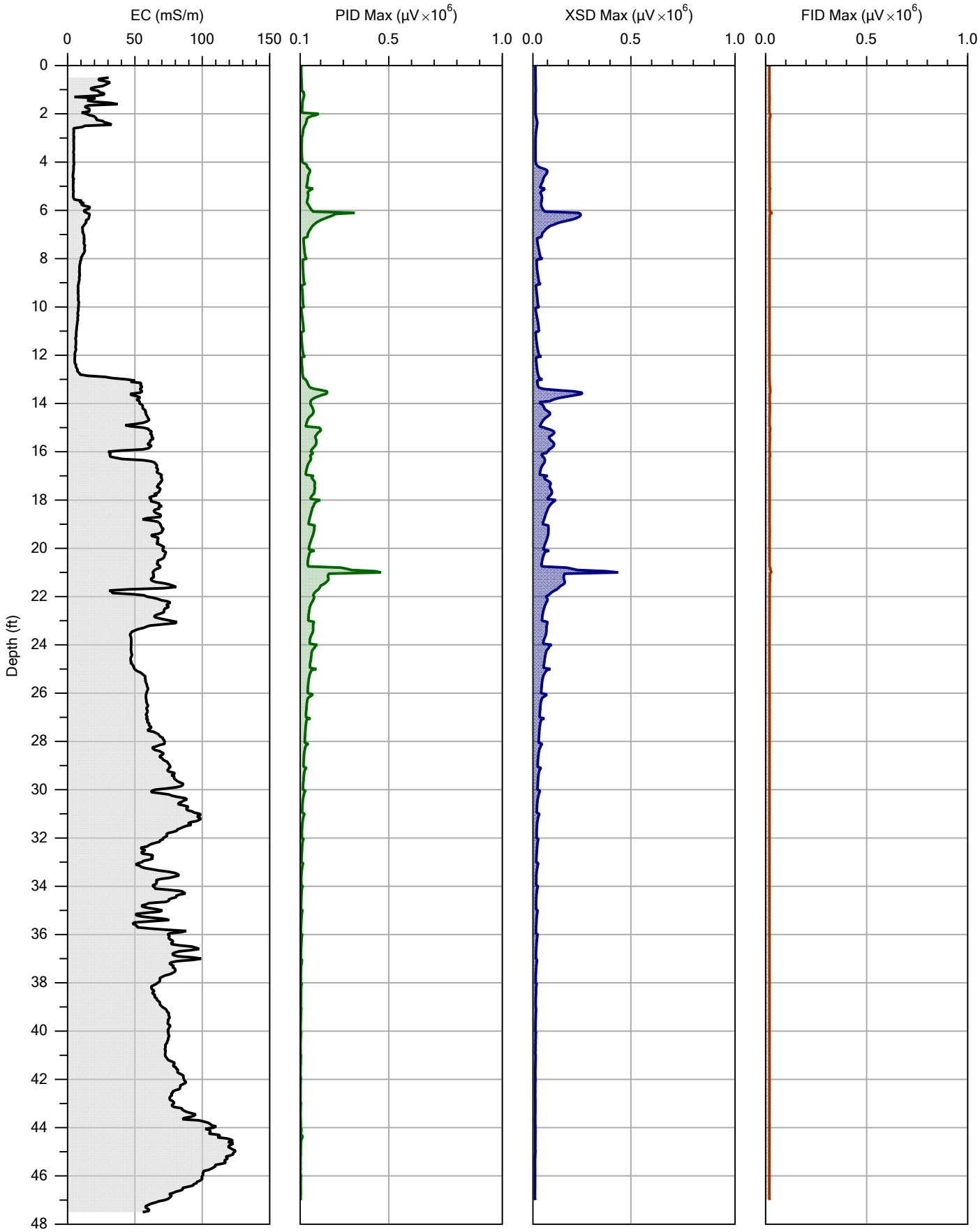
Company: BGS	Operator: MTO	Date: 10/26/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



BGS
BELOW GROUND SURFACE, INC.

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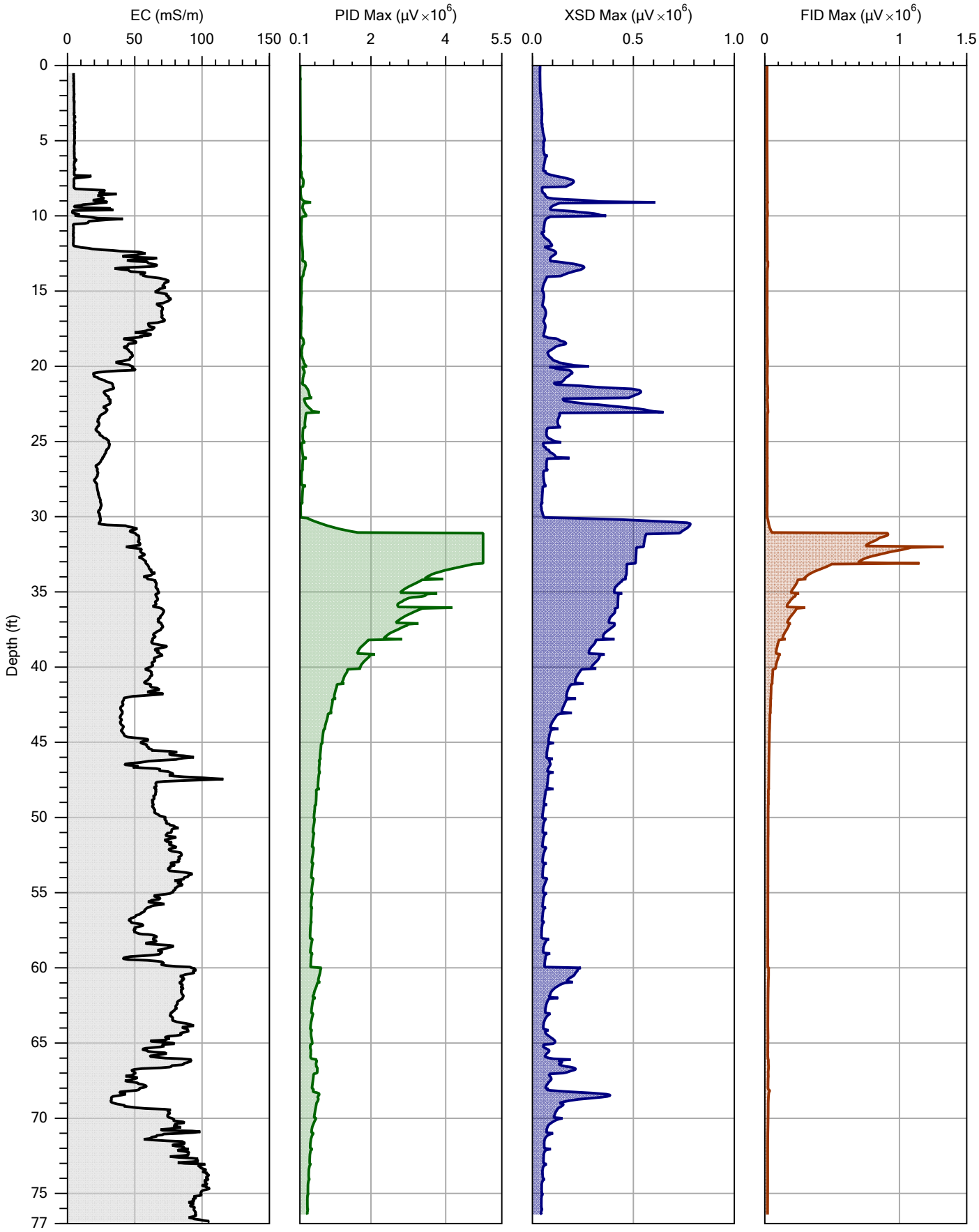
Company: BGS	Operator: MTO	Date: 10/26/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



BGS
BELOW GROUND SURFACE, INC.

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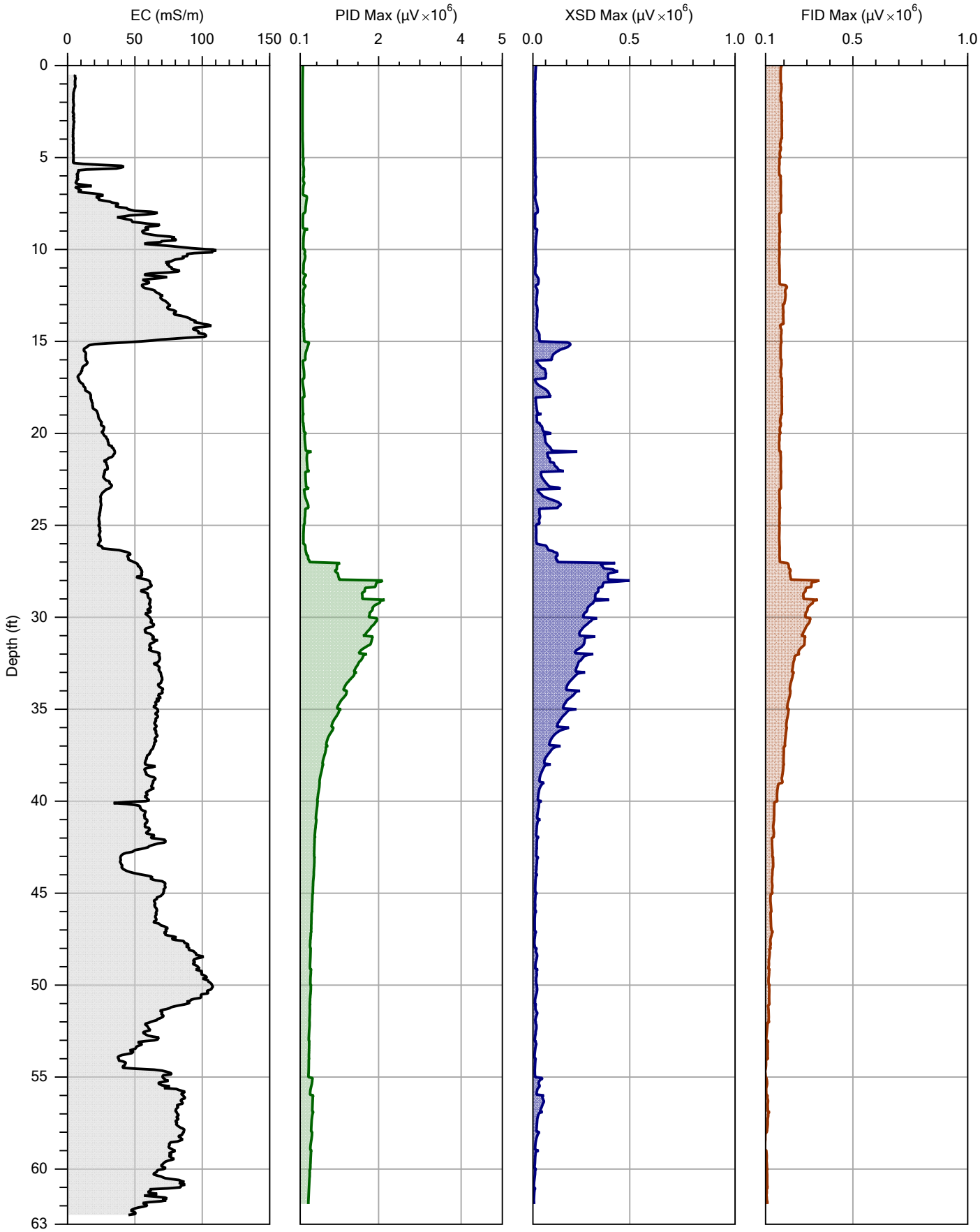
Company: BGS	Operator: MTO	Date: 10/27/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



BGS
BELOW GROUND SURFACE, INC.

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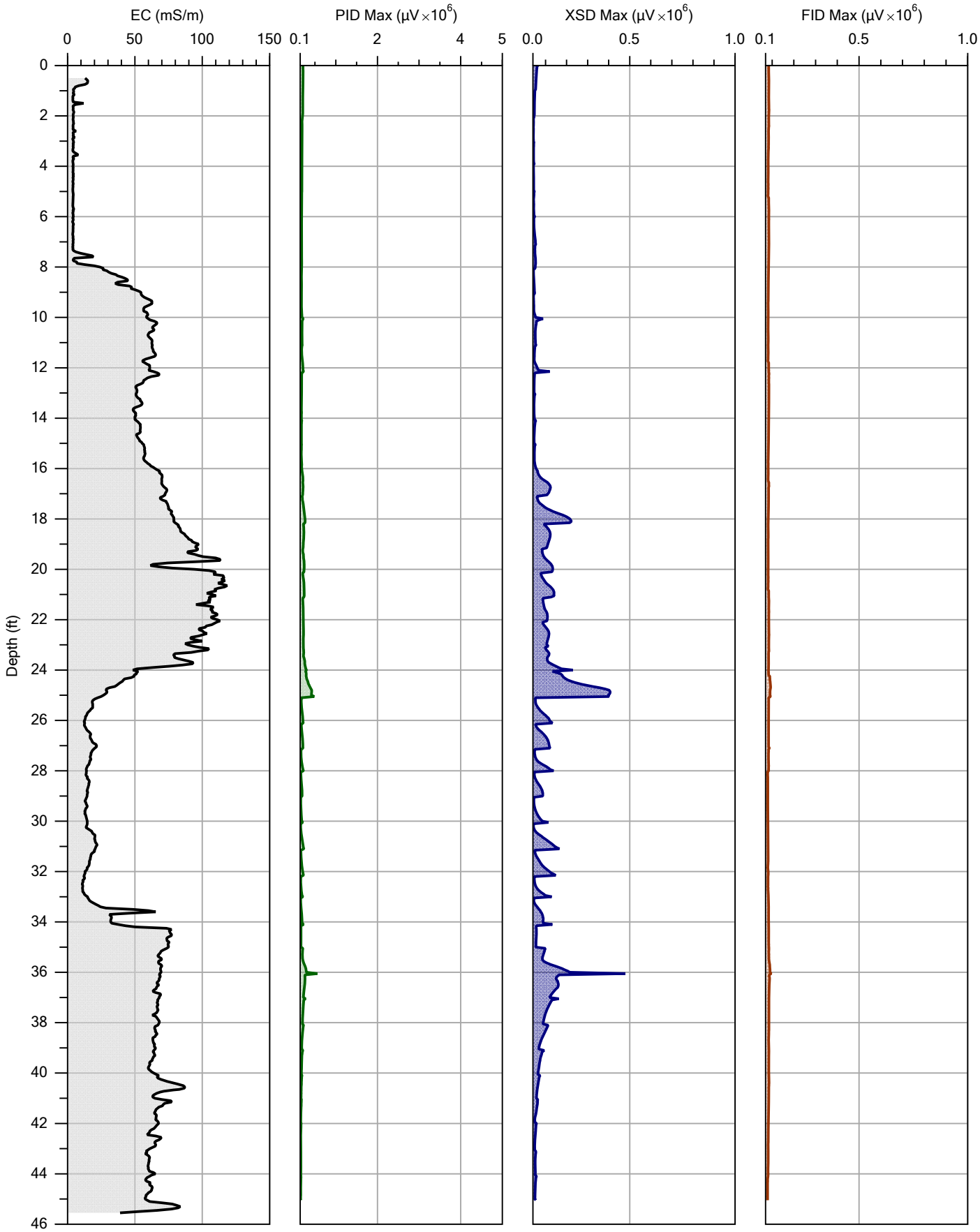
Company: BGS	Operator: MTO	Date: 10/27/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



BGS
BELOW GROUND SURFACE, INC.

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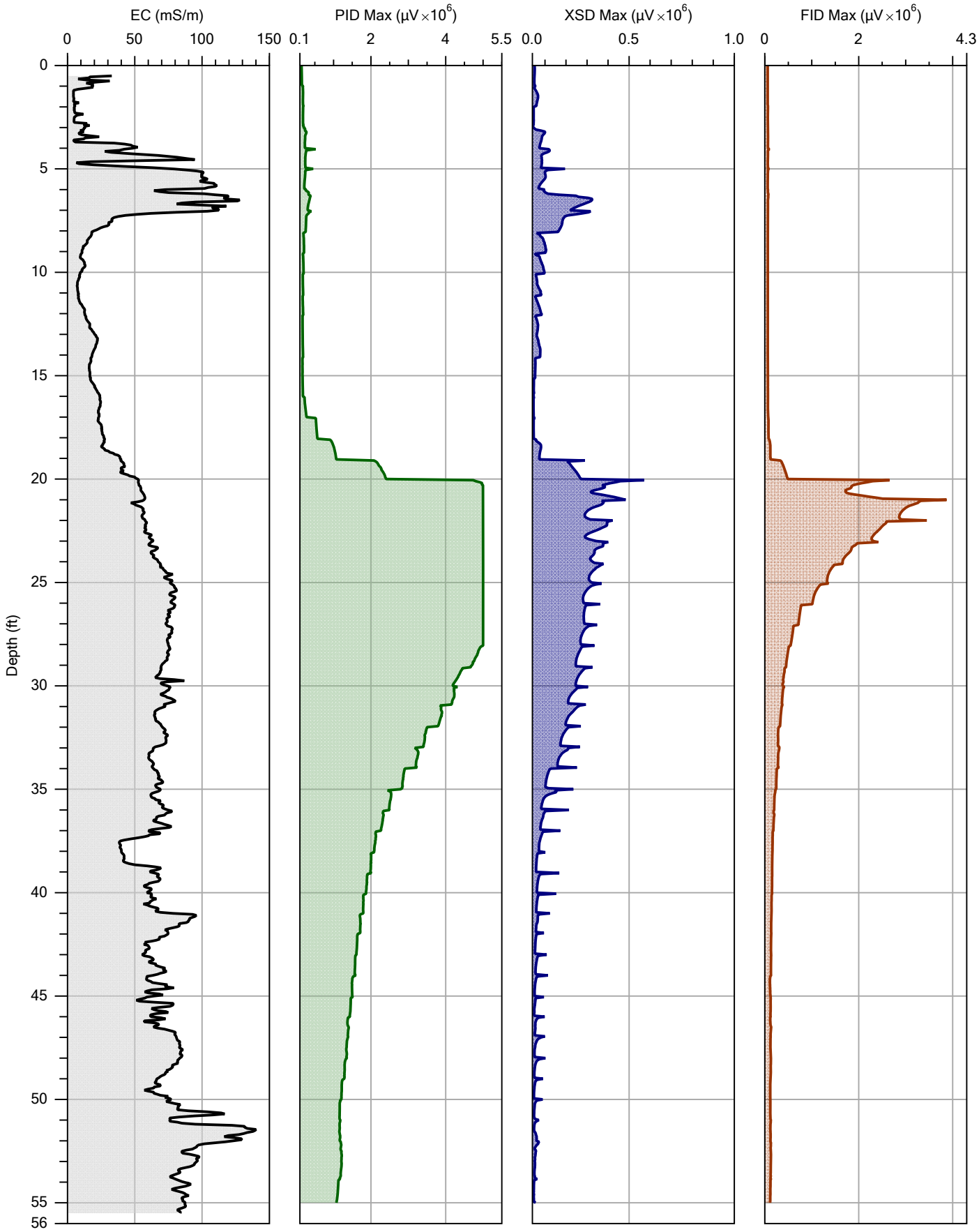
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



BGS
BELOW GROUND SURFACE, INC.

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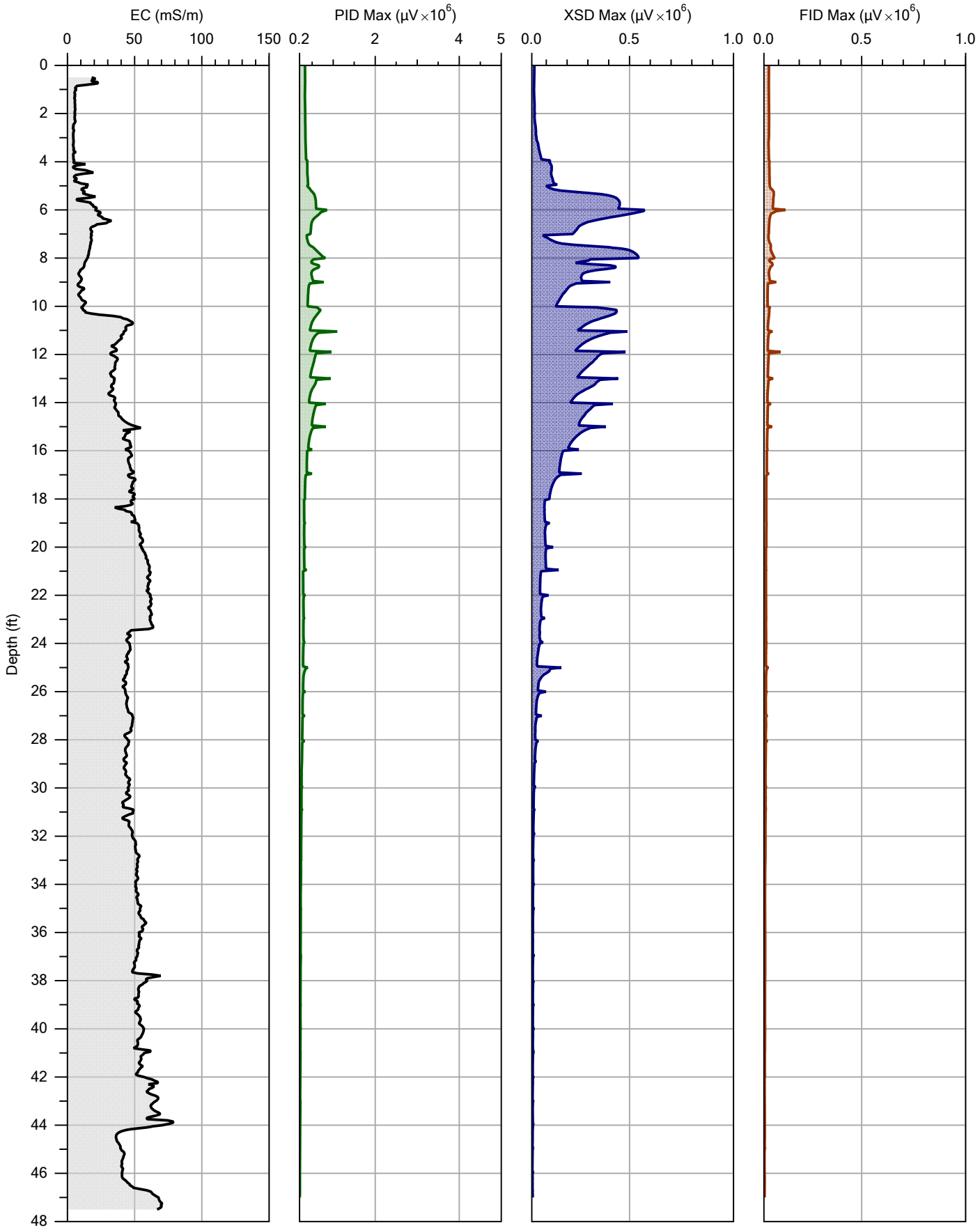
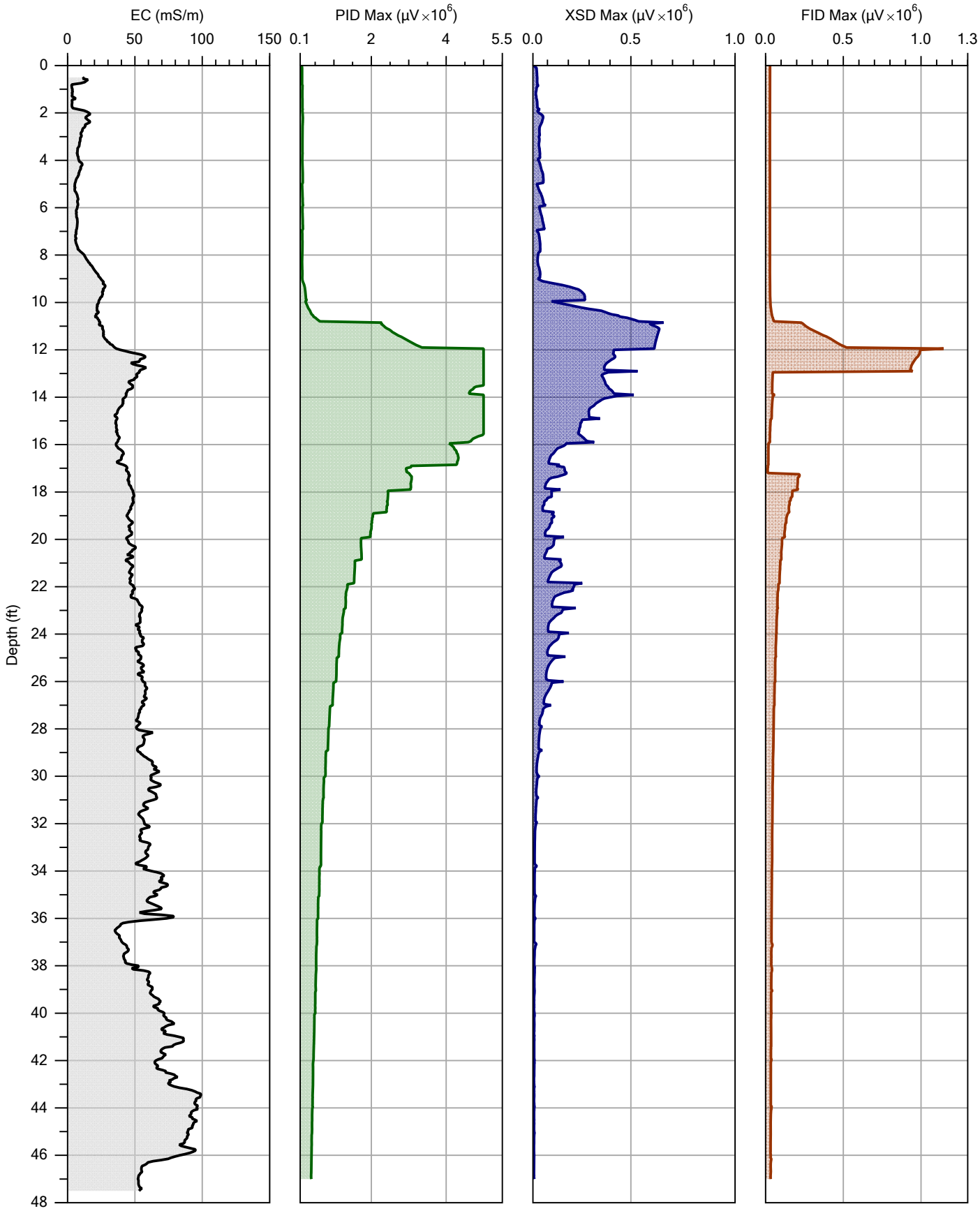
Company: BGS	Operator: MTO	Date: 10/27/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



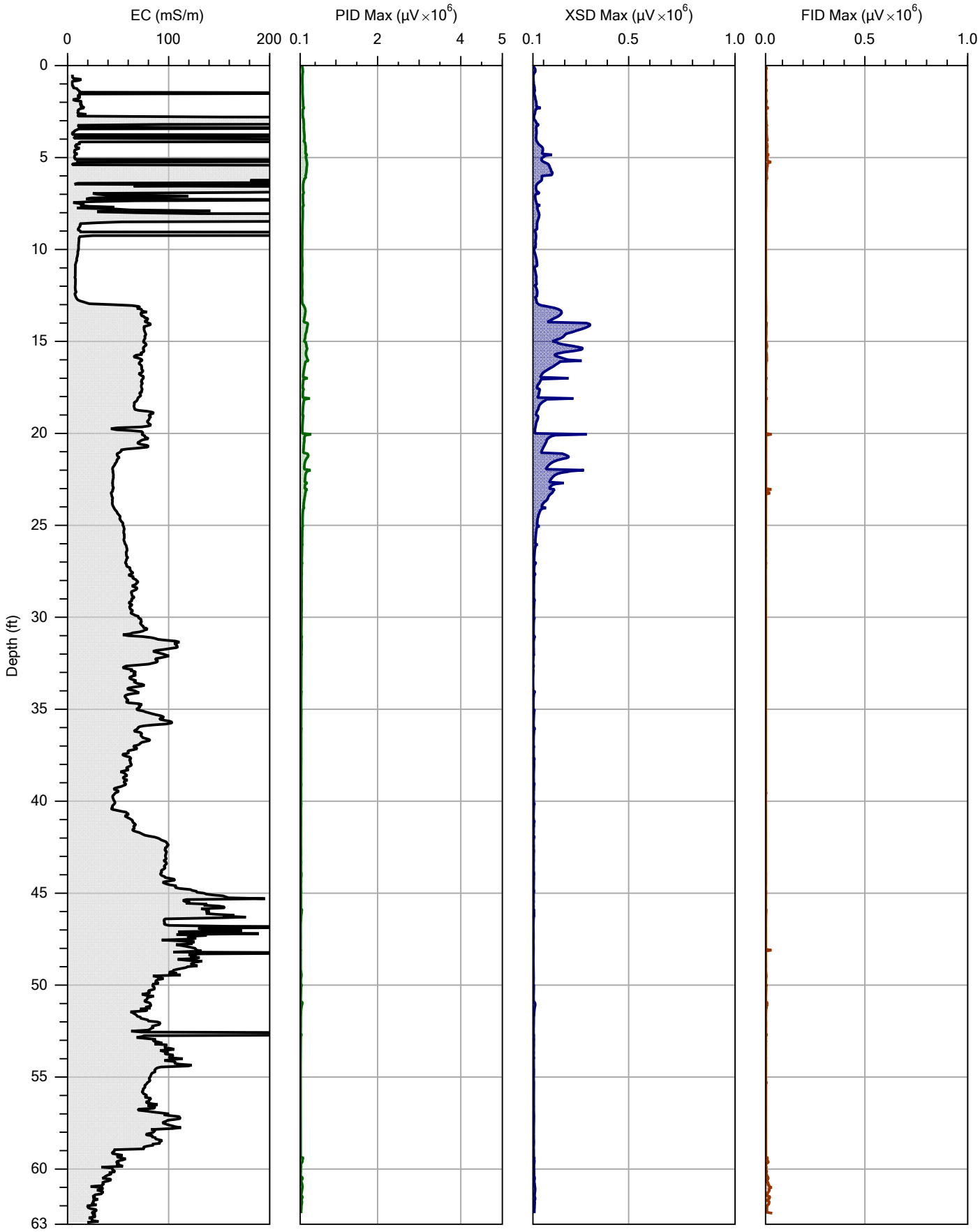
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-14.MIP
Company: BGS	Operator: MTO	Date: 10/27/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



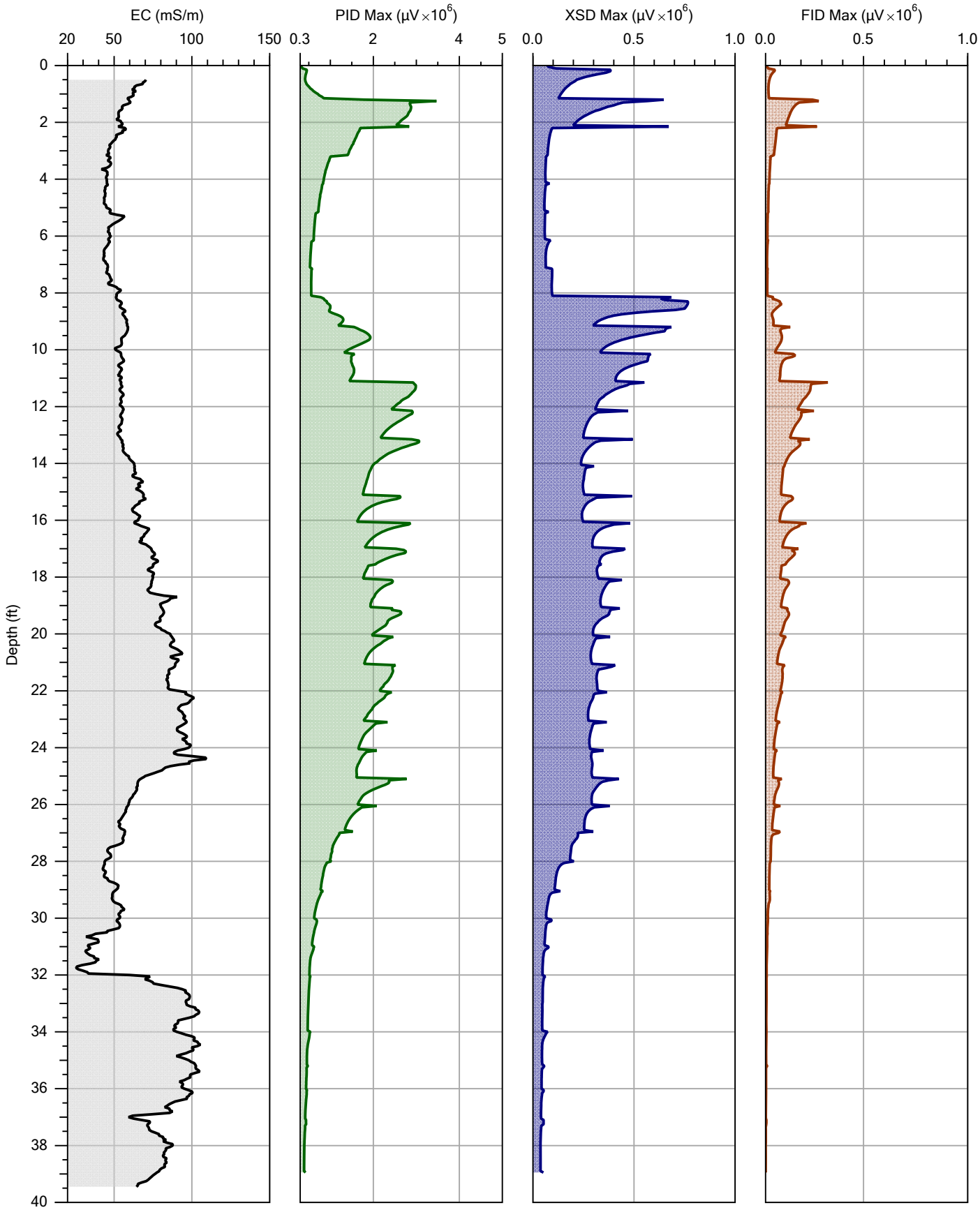
BGS
BELOW GROUND SURFACE, INC.

Company: BGS	Operator: MTO	File: MIP-15.MIP
Project ID: Tanglefoot Site	Client: TetraTech	Date: 10/28/2021
		Location: Betendorf, IA



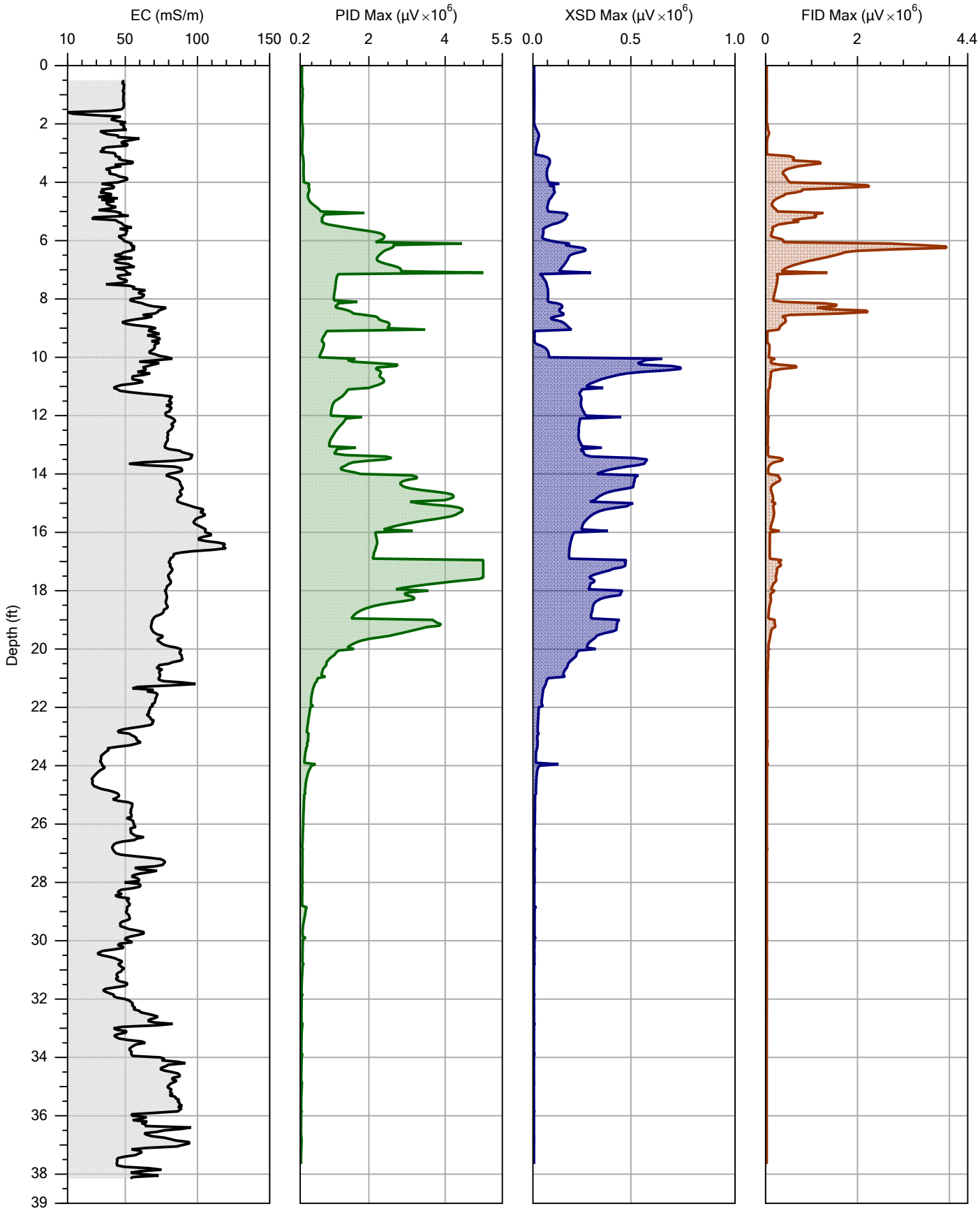
BGS
BELOW GROUND SURFACE, INC.

Company: BGS	Operator: MTO	File: MIP-16.MIP
Project ID: Tanglefoot Site	Client: TetraTech	Date: 10/25/2021
		Location: Betendorf, IA



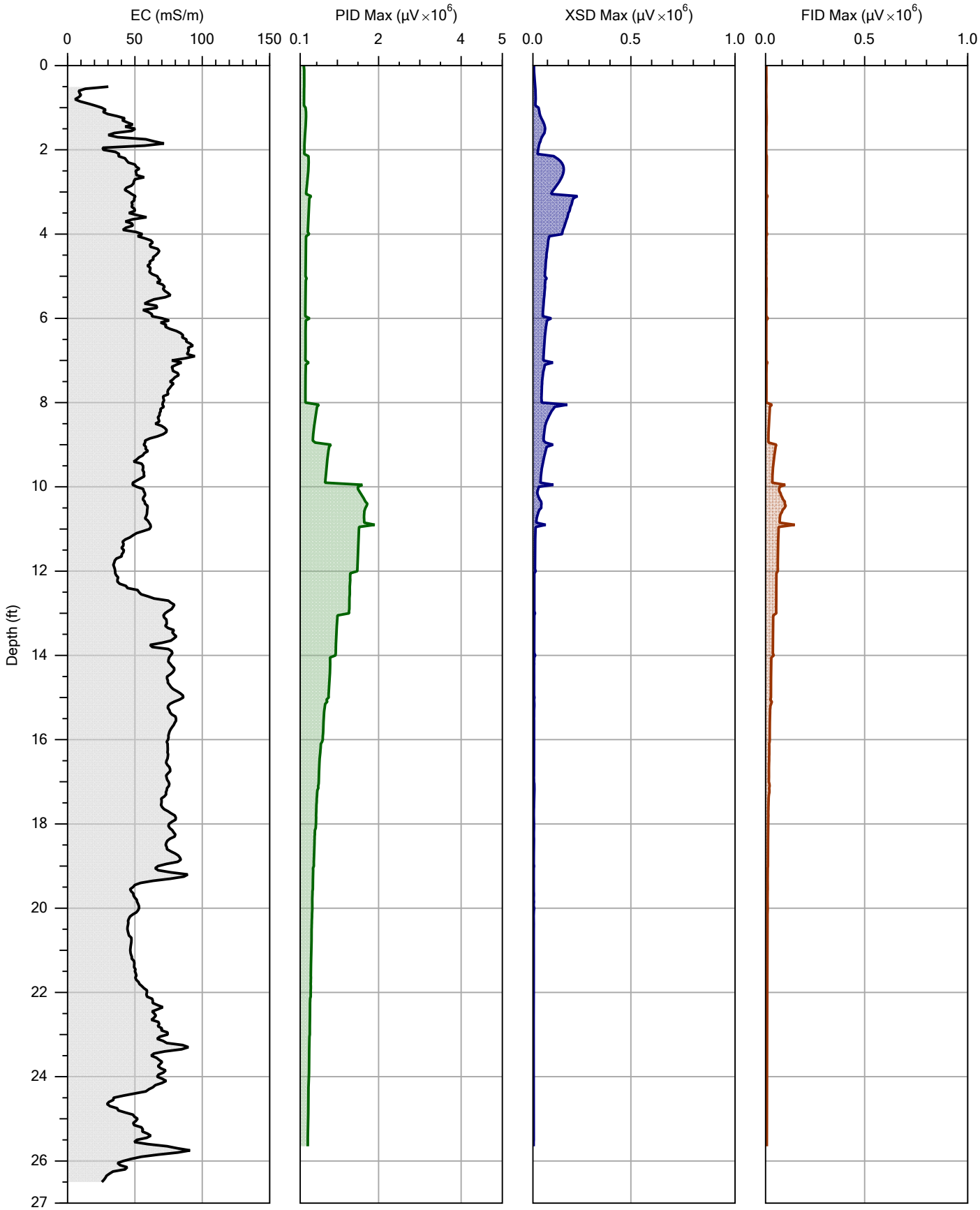
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-17.MIP
Company: BGS	Operator: MTO	Date: 10/28/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



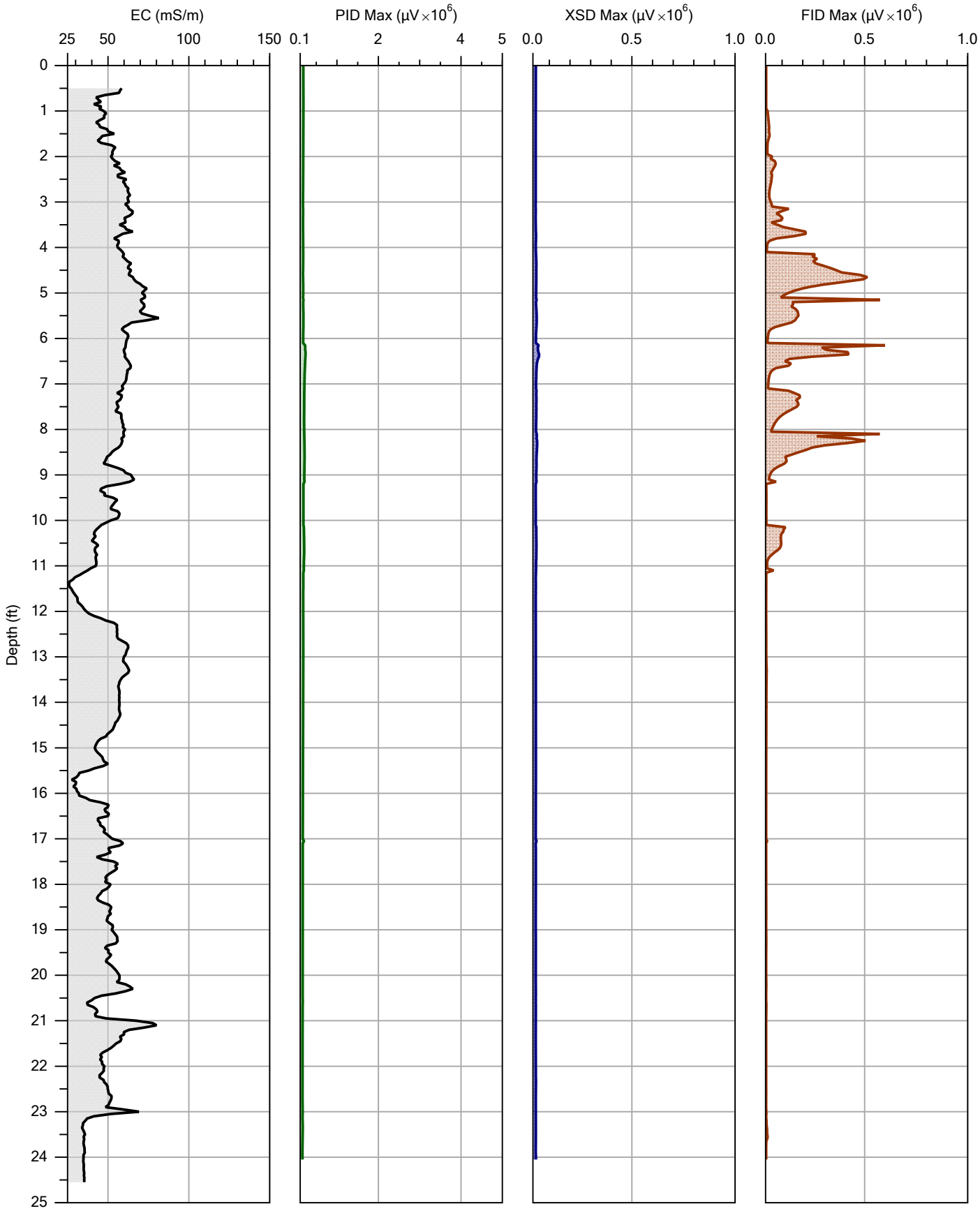
BGS
BELOW GROUND SURFACE, INC.

Company: BGS	Operator: MTO	File: MIP-18.MIP
Project ID: Tanglefoot Site	Client: TetraTech	Date: 10/28/2021
		Location: Betendorf, IA



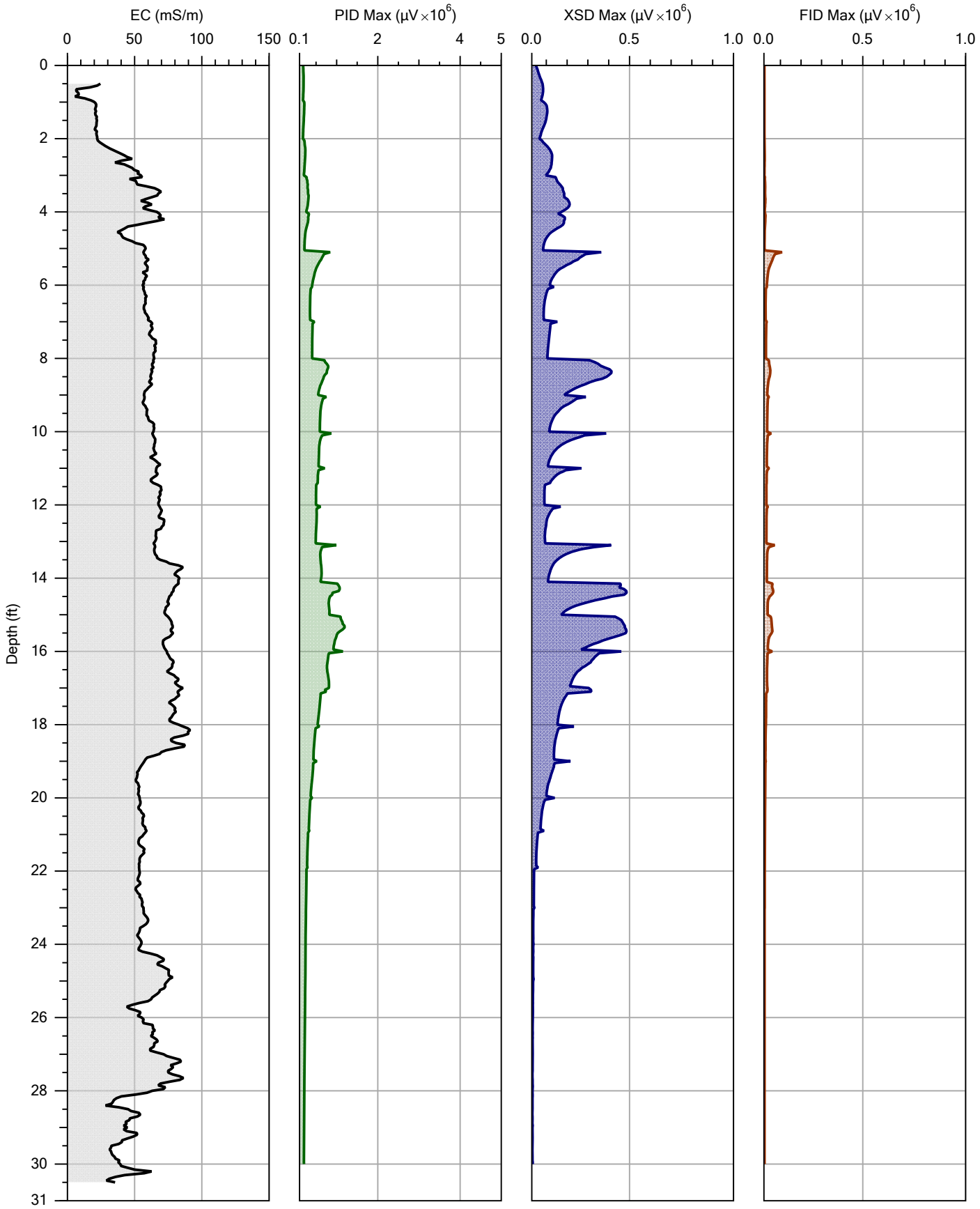
BGS
BELOW GROUND SURFACE, INC.

Company: BGS	Operator: MTO	File: MIP-19.MIP
Project ID: Tanglefoot Site	Client: TetraTech	Date: 10/28/2021
		Location: Betendorf, IA



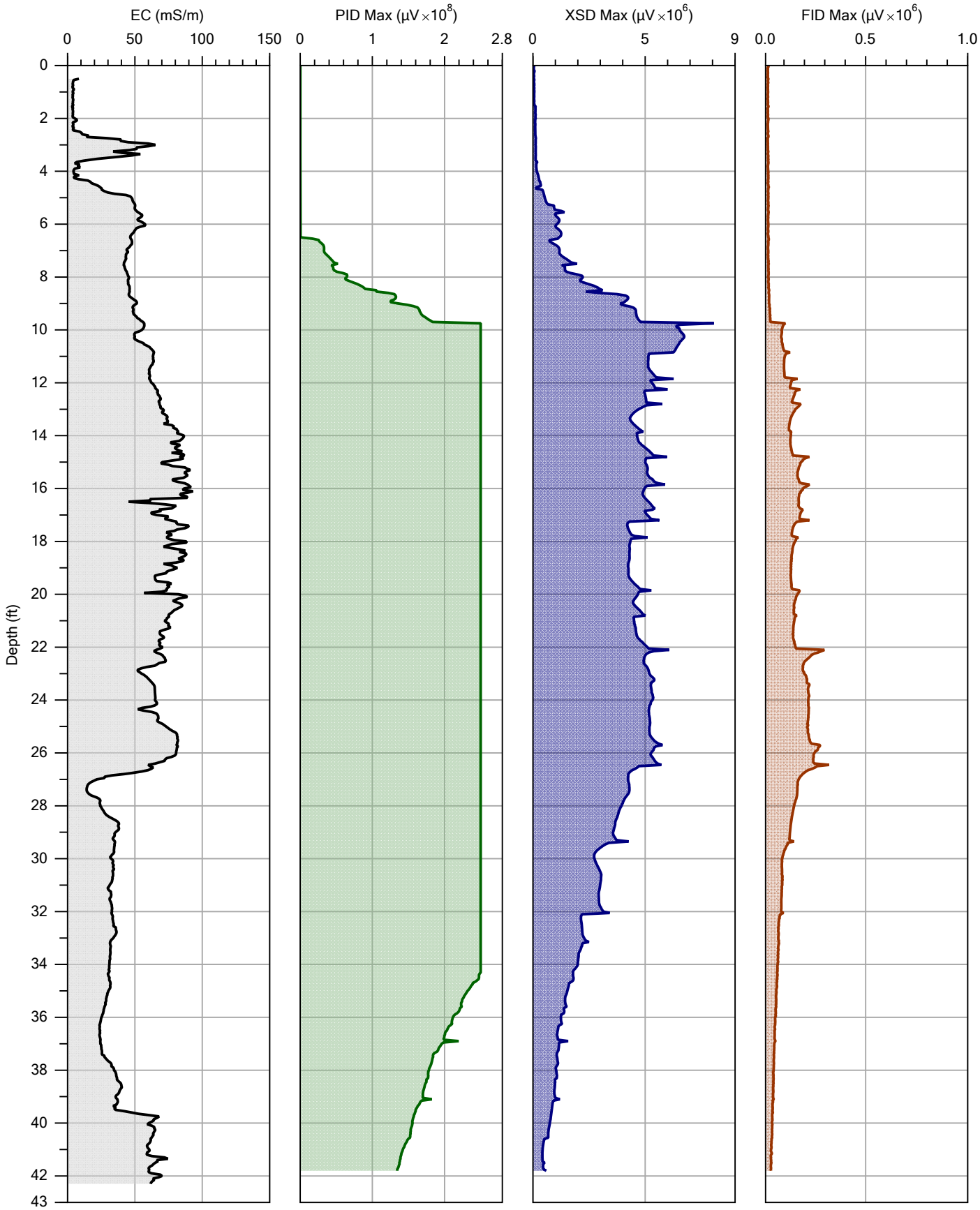
BGS
BELOW GROUND SURFACE, INC.

Company: BGS	Operator: MTO	File: MIP-20.MIP
Project ID: Tanglefoot Site	Client: TetraTech	Date: 10/28/2021
		Location: Betendorf, IA



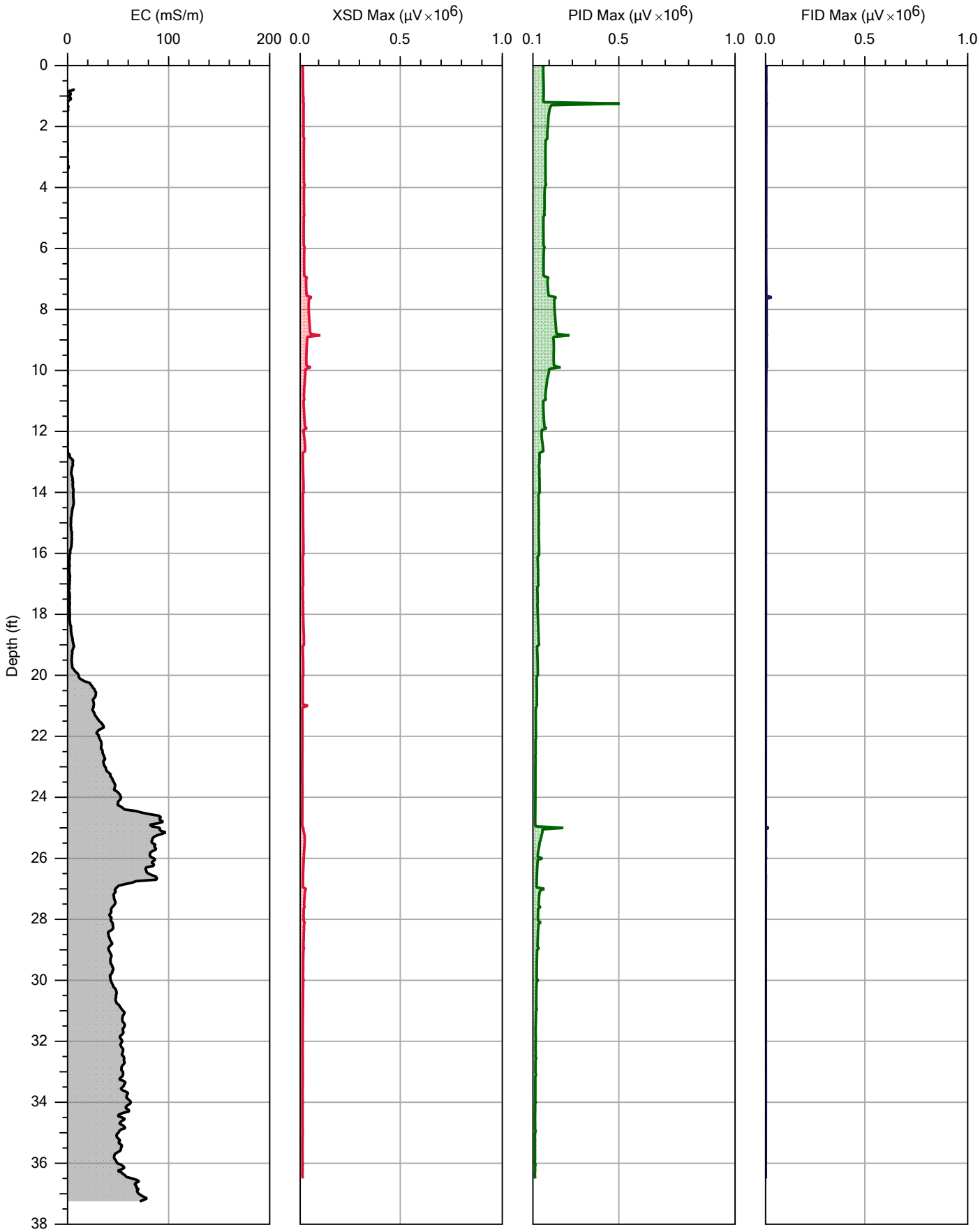
BGS
BELOW GROUND SURFACE, INC.

Company: BGS	Operator: MTO	File: MIP-21.MIP
Project ID: Tanglefoot Site	Client: TetraTech	Date: 10/28/2021
		Location: Betendorf, IA



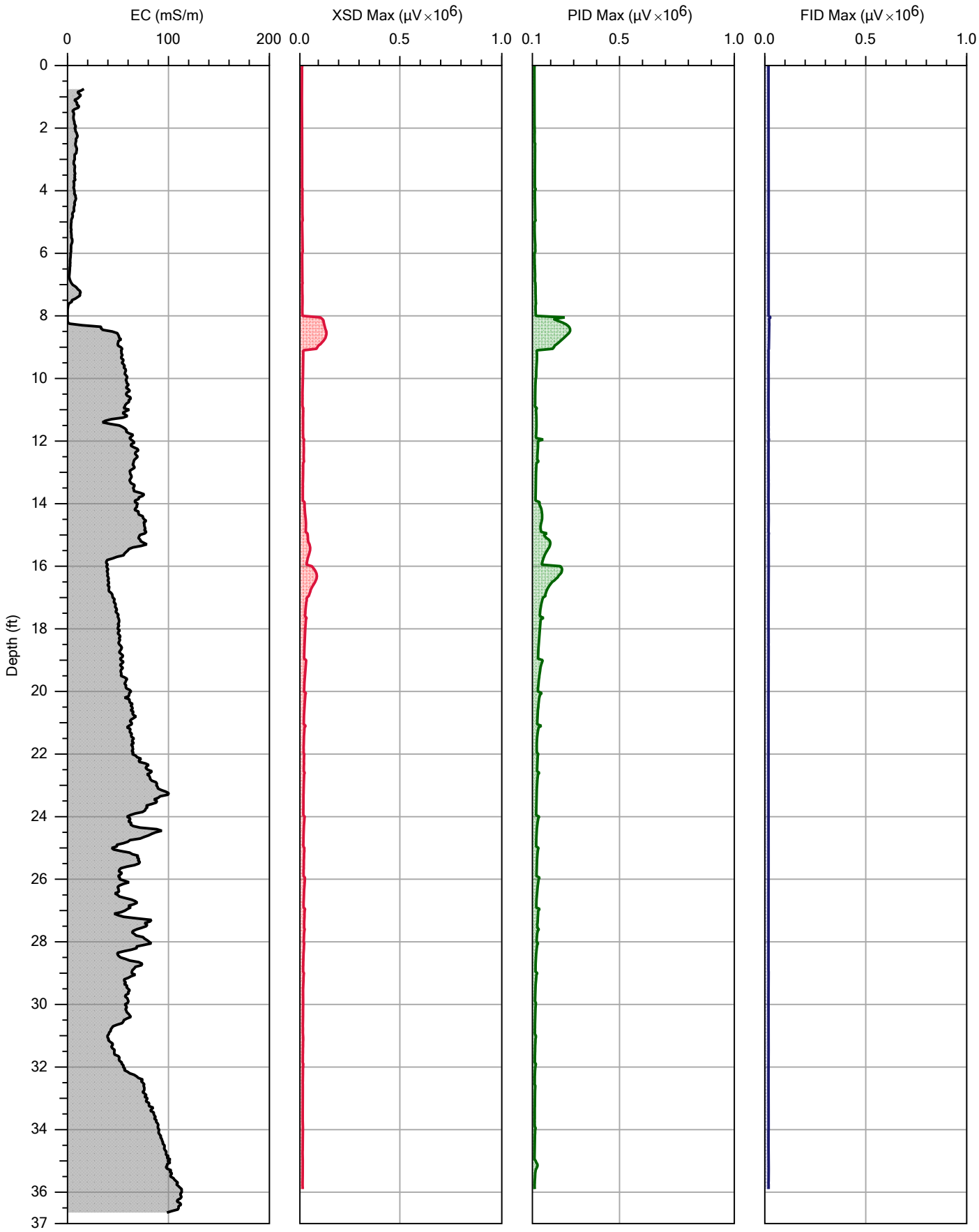
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-22-PIT.MIP
Company: BGS	Operator: MTO	Date: 10/28/2021
Project ID: Tanglefoot Site	Client: TetraTech	Location: Betendorf, IA



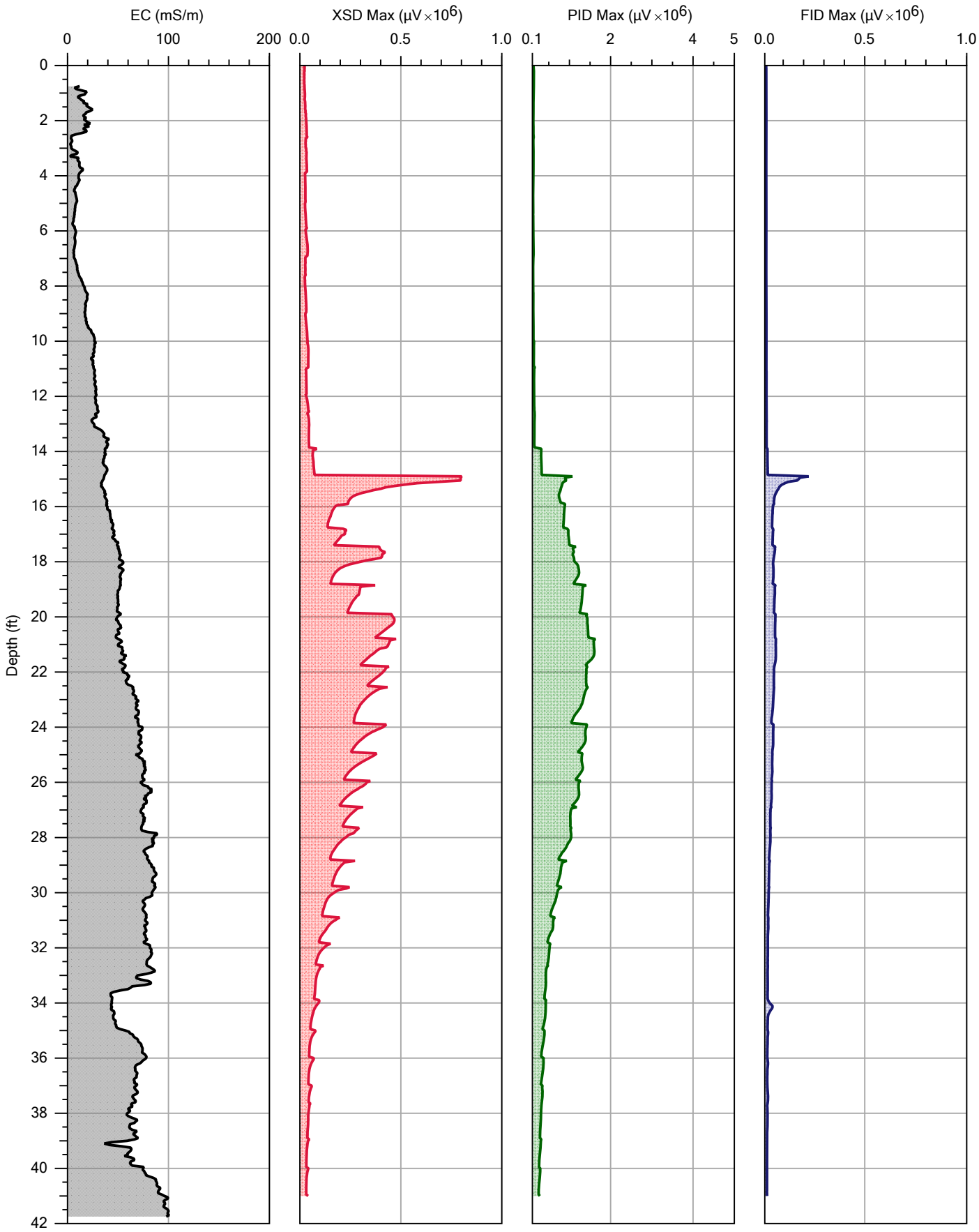
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-23.MIP
Company: BGS	Operator: MTO	Date: 3/7/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



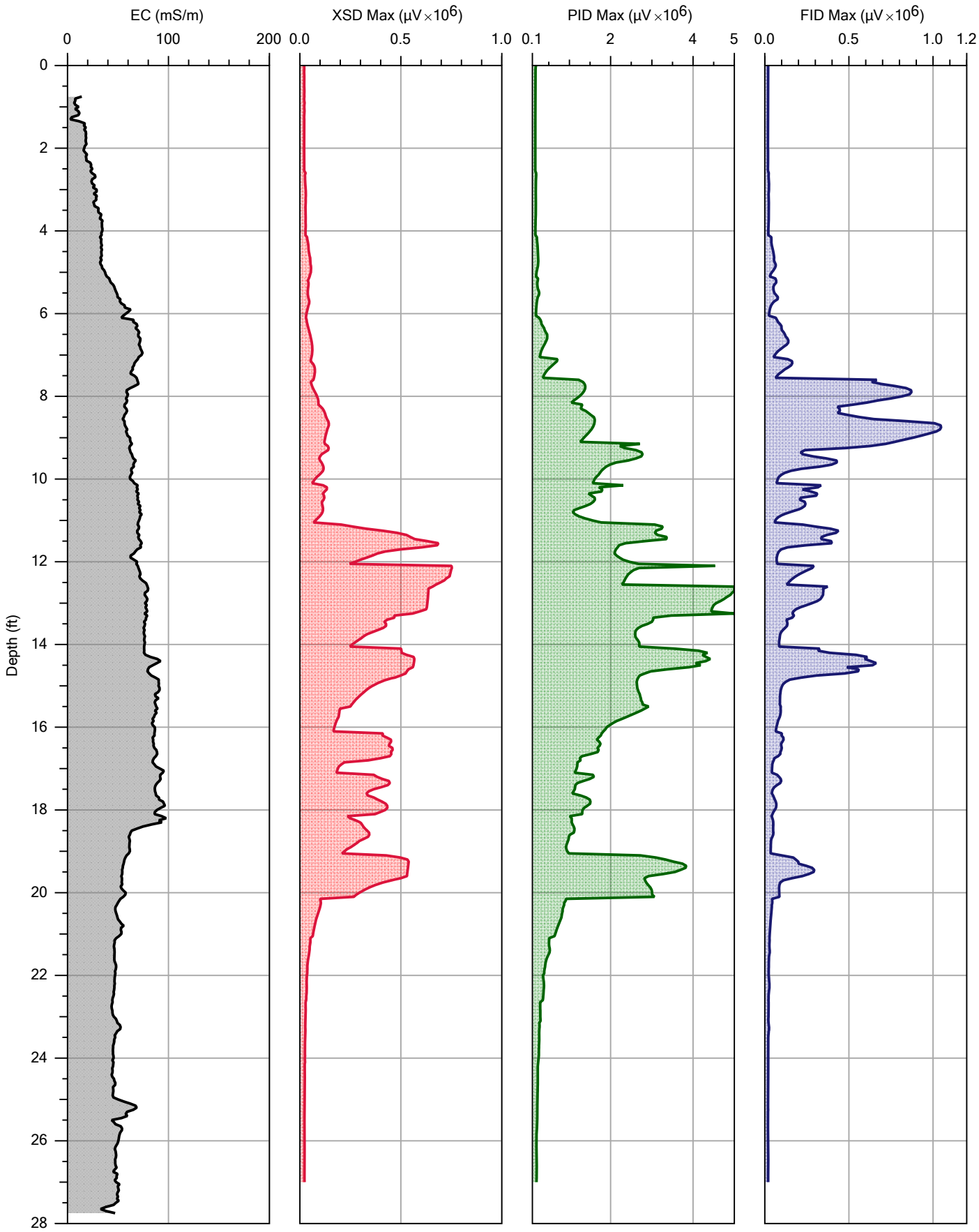
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-24.MIP
Company: BGS	Operator: MTO	Date: 3/7/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



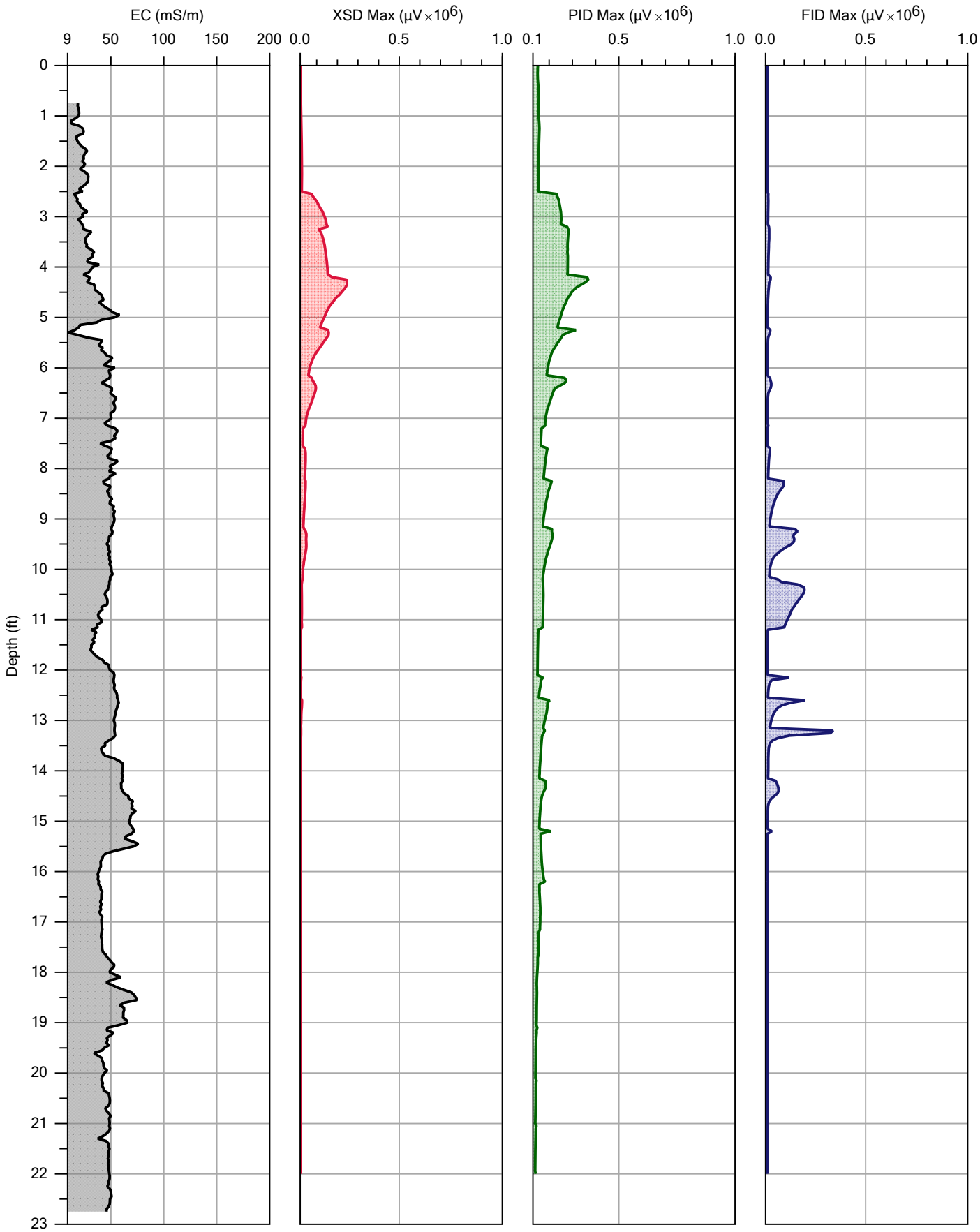
BGS
BELOW GROUND SURFACE, INC.

Company: BGS	Operator: MTO	File: MIP-25.MIP
Project ID: Tanglefoot Ln	Client: TetraTech	Date: 3/8/2022
		Location: Bettendorf, IA



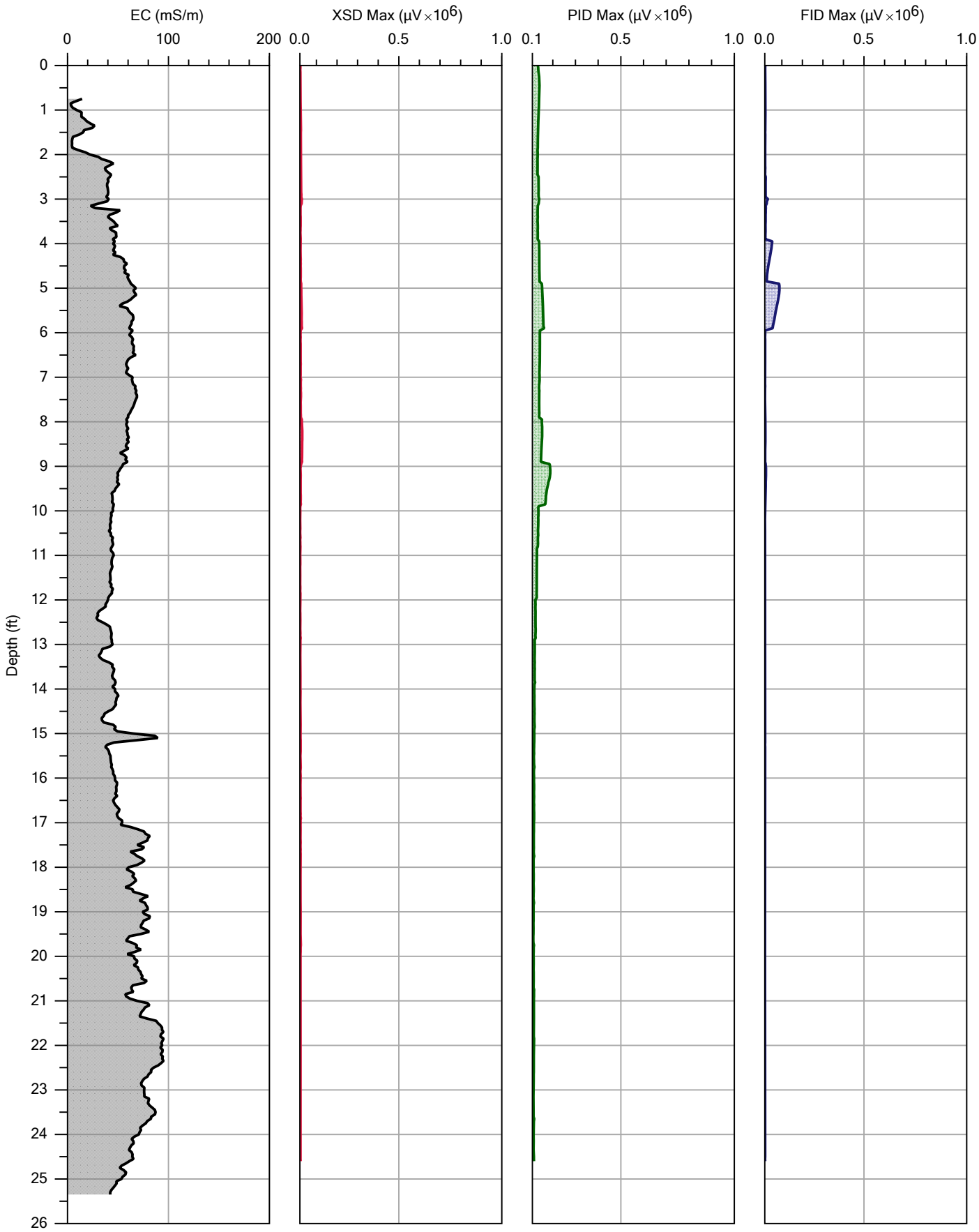
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-26.MIP
Company: BGS	Operator: MTO	Date: 3/8/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



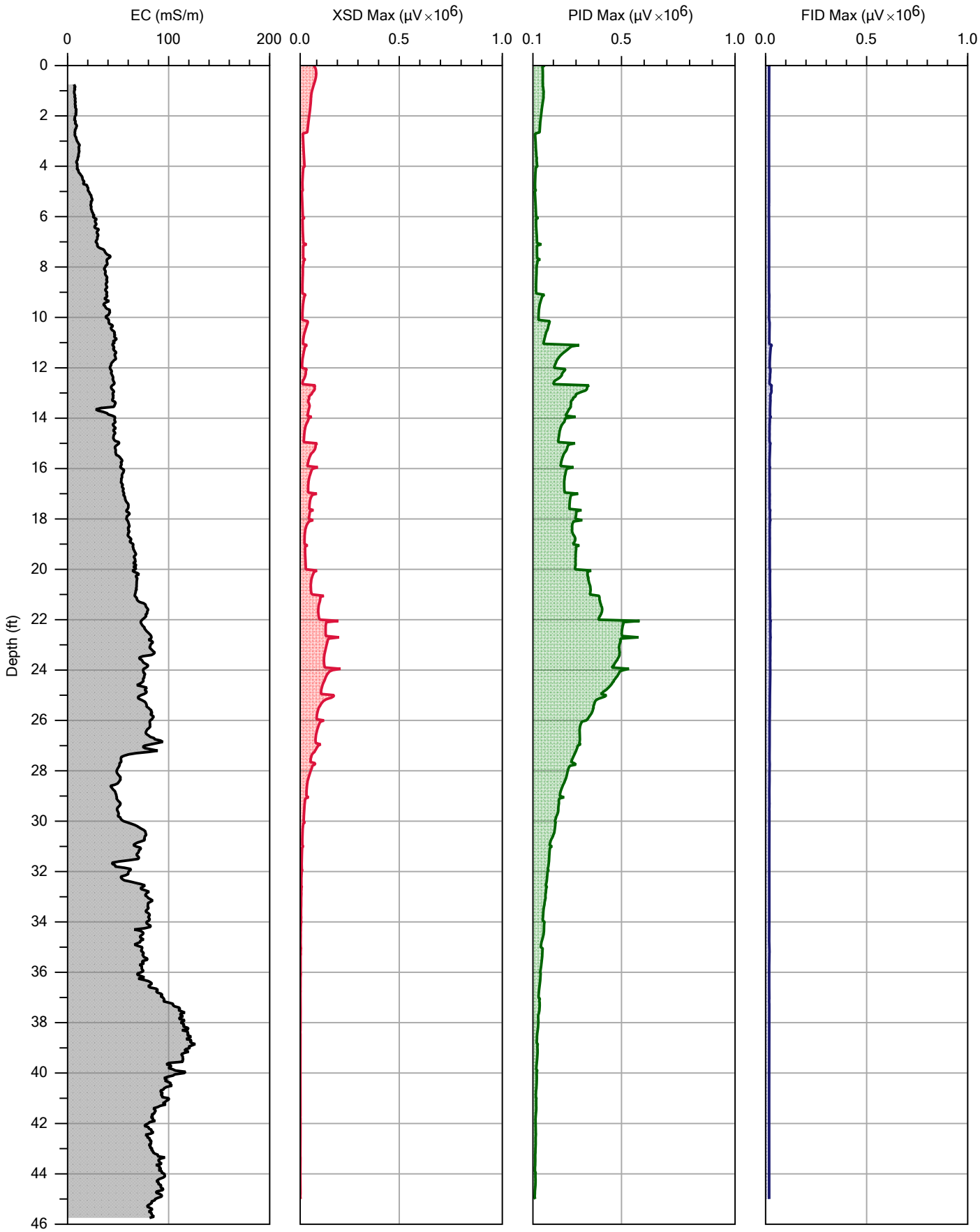
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-27.MIP
Company: BGS	Operator: MTO	Date: 3/8/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



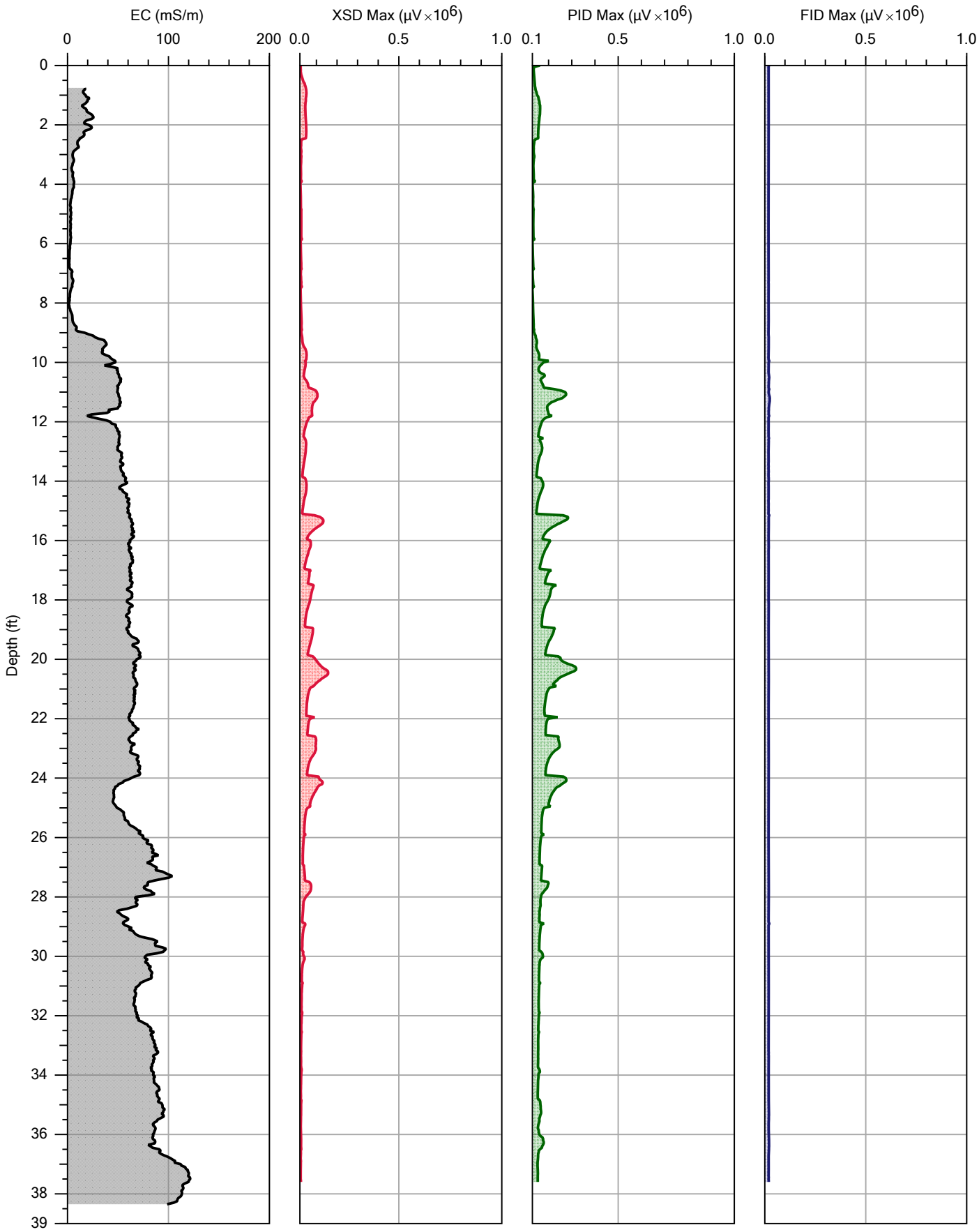
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-28.MIP
Company: BGS	Operator: MTO	Date: 3/8/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



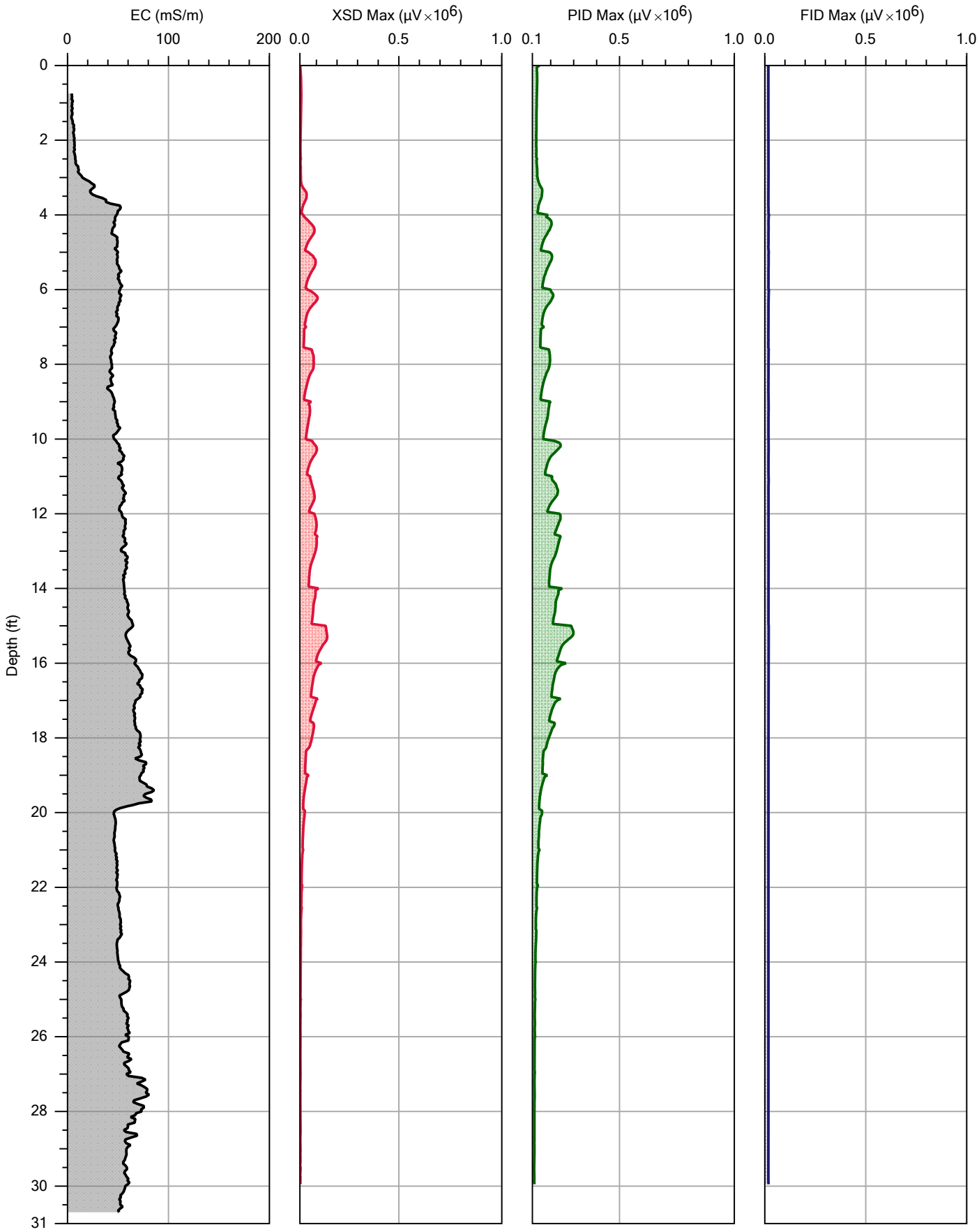
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-29.MIP
Company: BGS	Operator: MTO	Date: 3/8/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



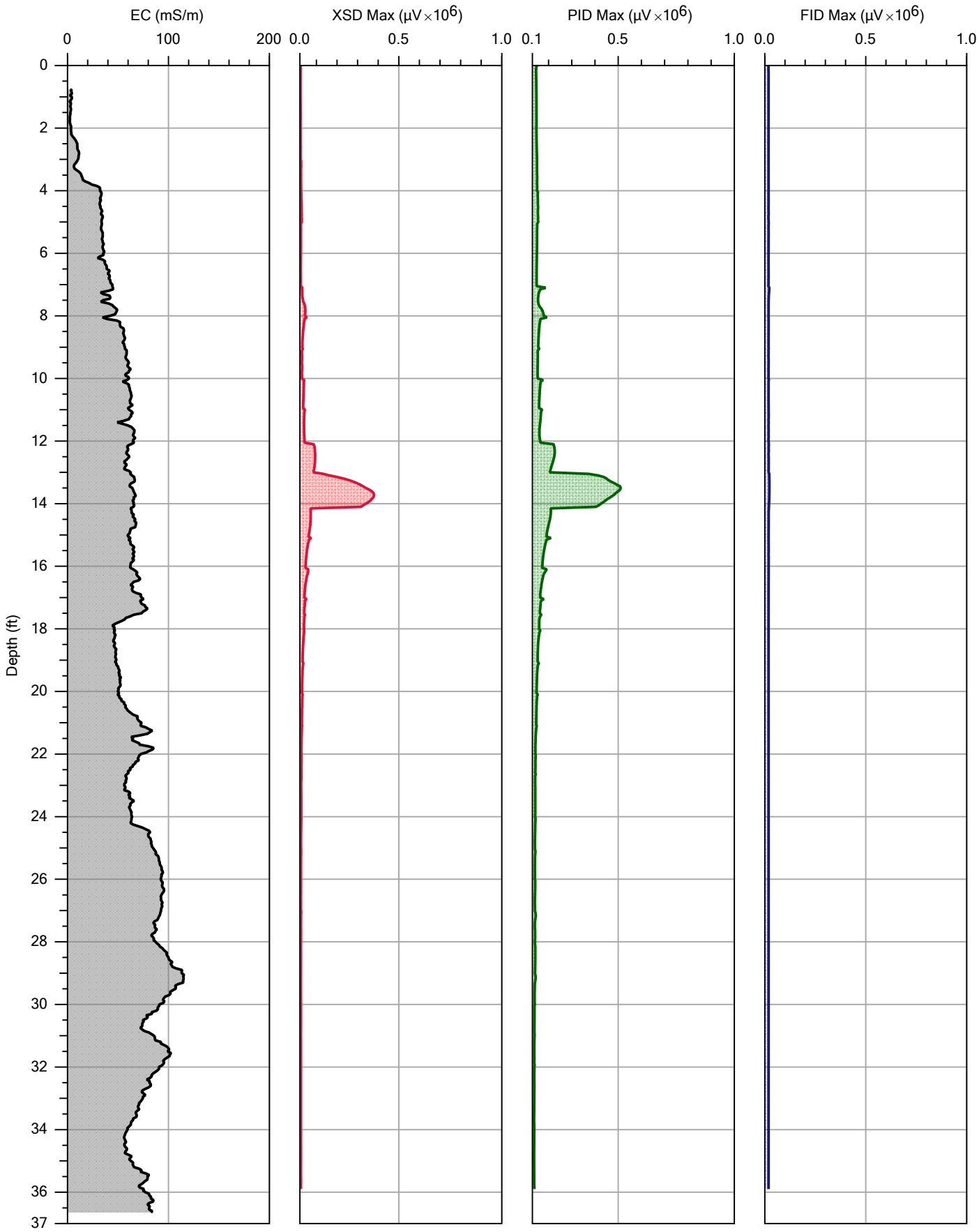
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-30.MIP
Company: BGS	Operator: MTO	Date: 3/7/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



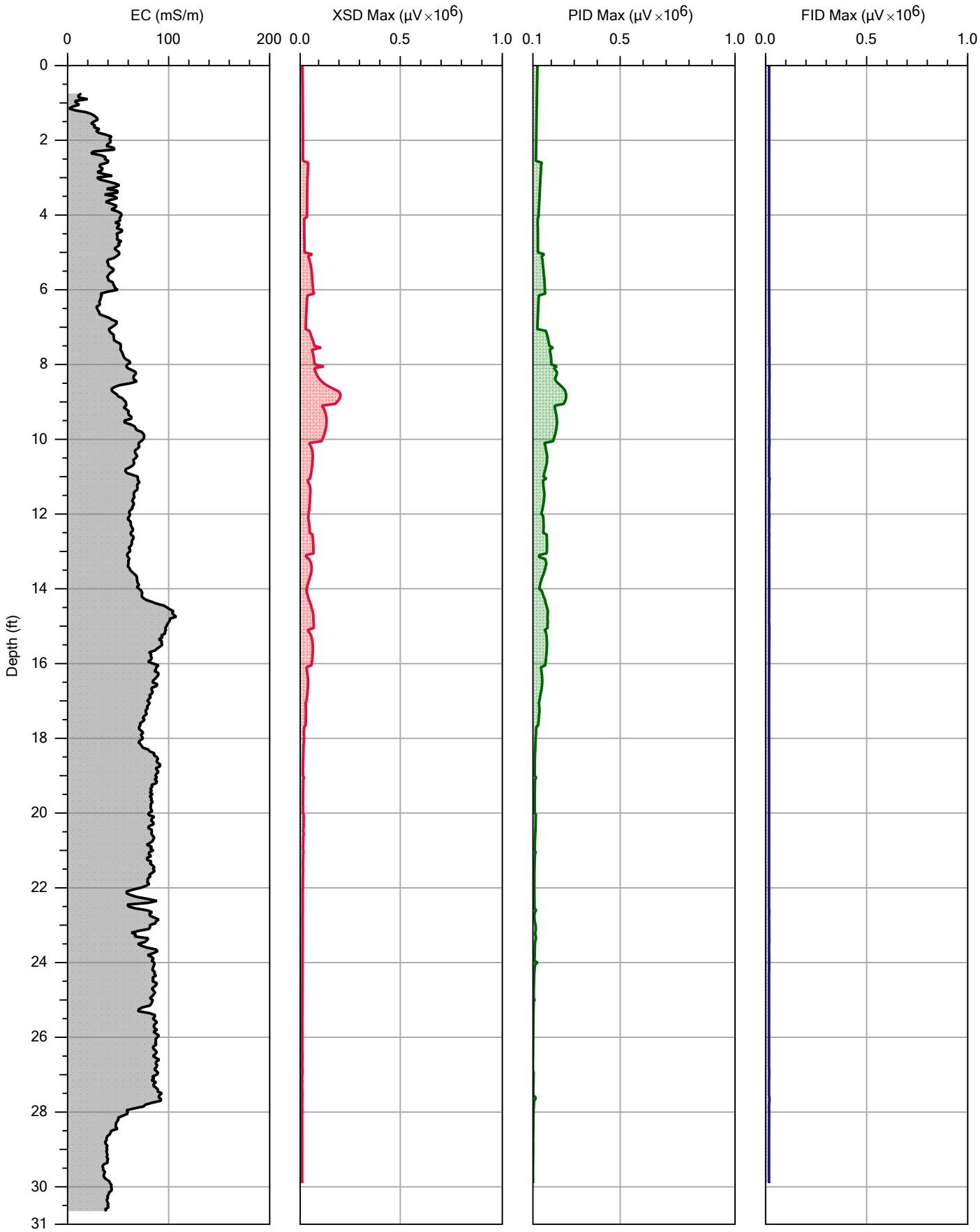
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-31.MIP
Company: BGS	Operator: MTO	Date: 3/7/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



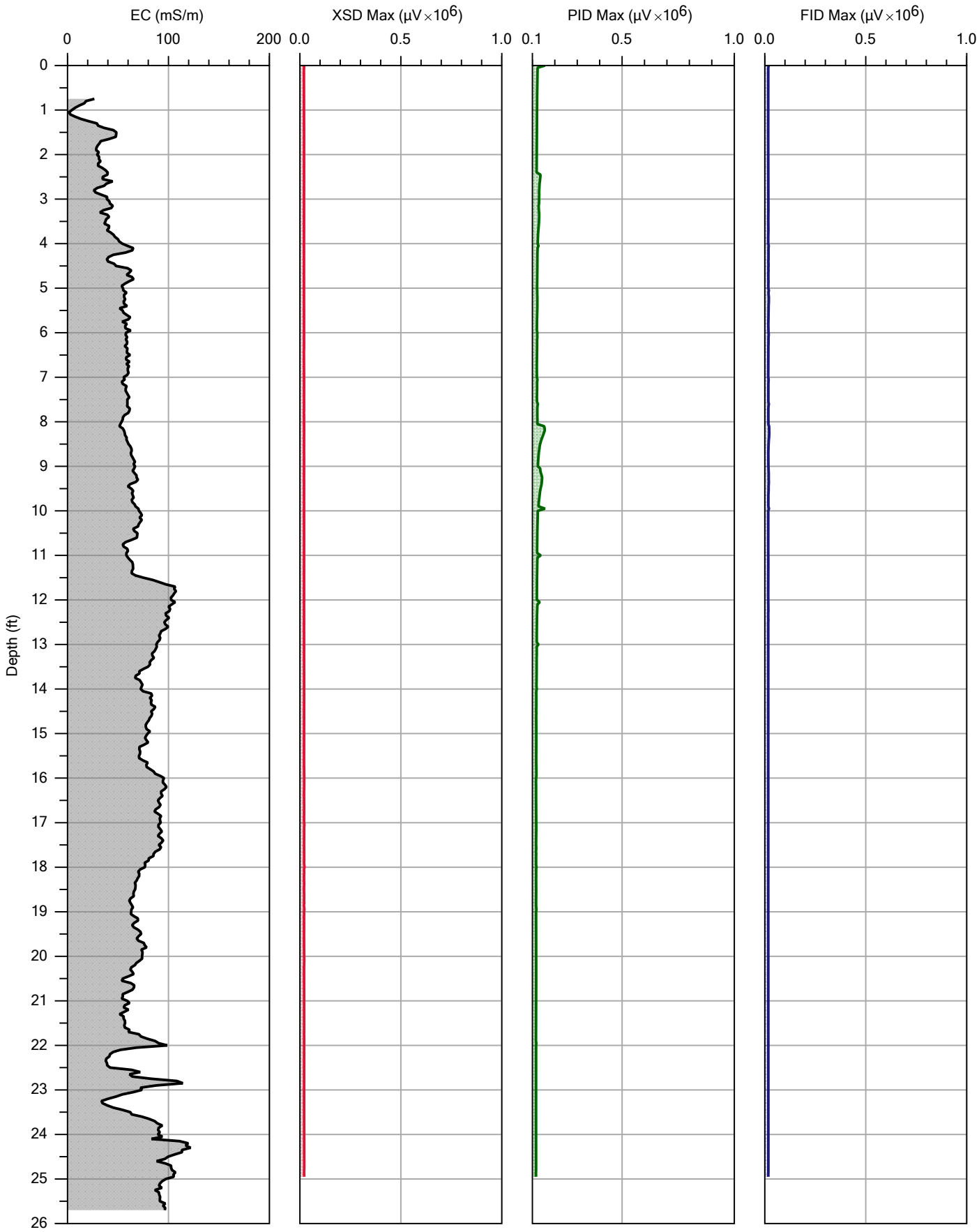
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-32.MIP
Company: BGS	Operator: MTO	Date: 3/7/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



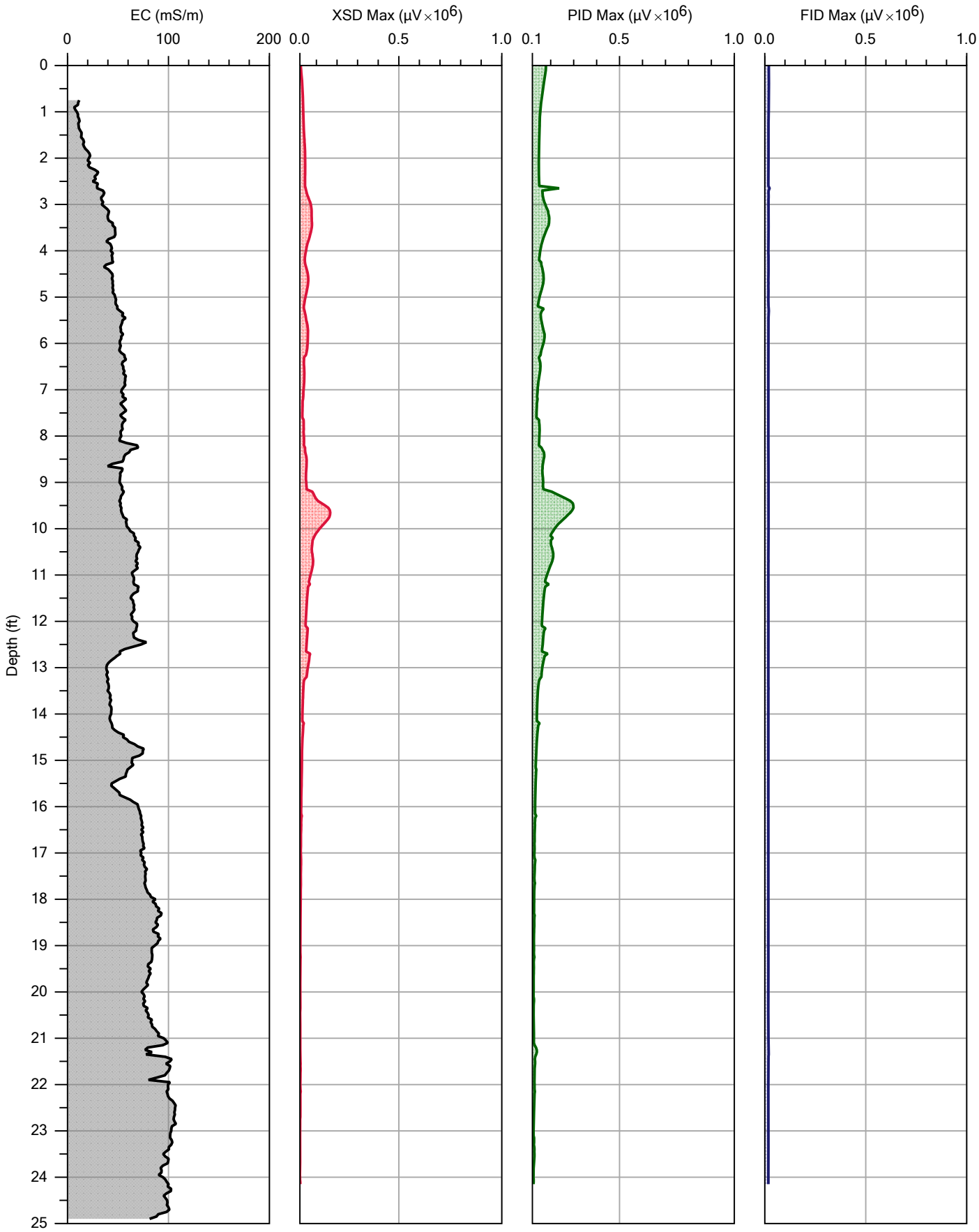
BGS
BELOW GROUND SURFACE, INC.

Company: BGS	Operator: MTO	File: MIP-33.MIP
Project ID: Tanglefoot Ln	Client: TetraTech	Date: 3/7/2022
		Location: Bettendorf, IA



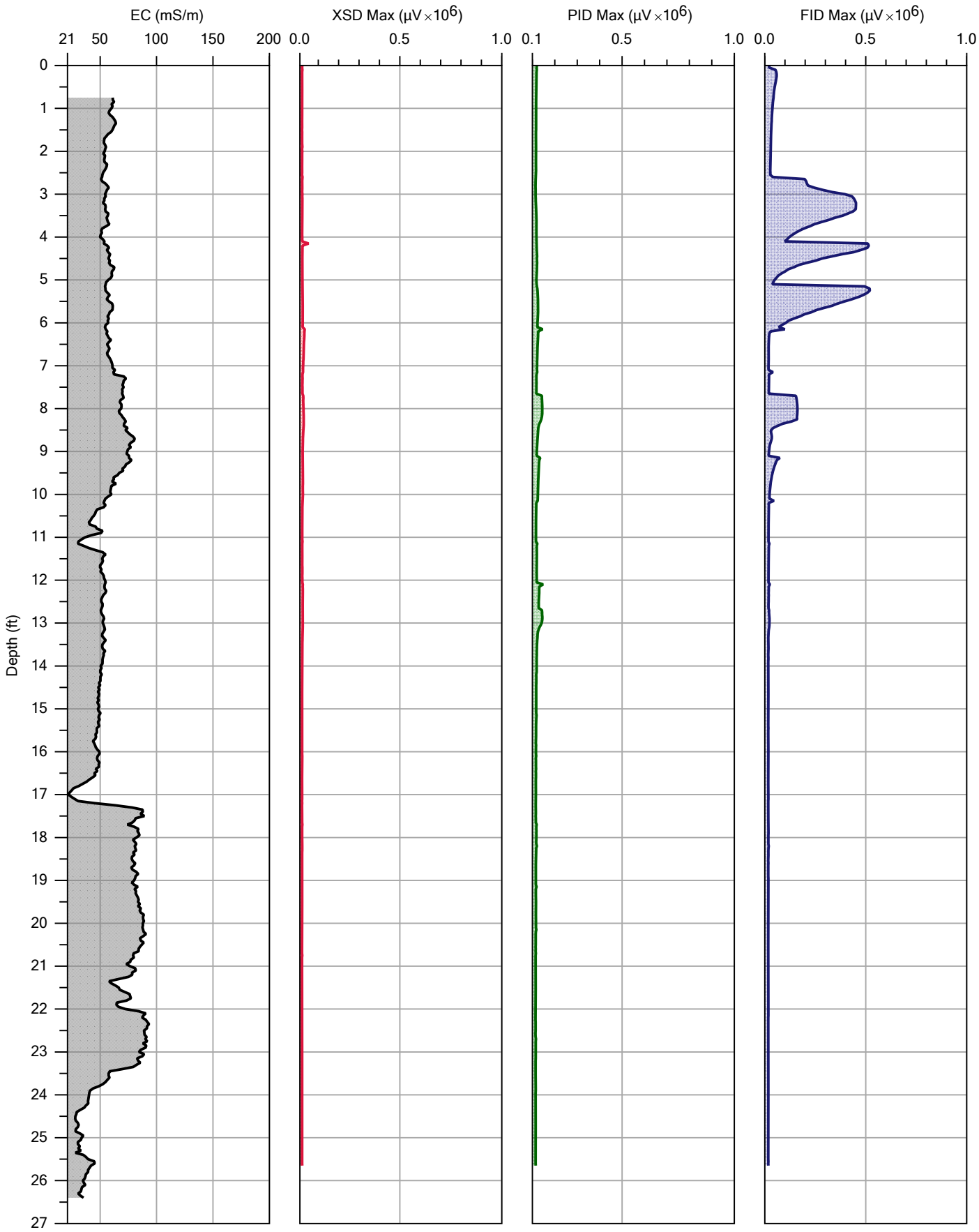
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-34.MIP
Company: BGS	Operator: MTO	Date: 3/7/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



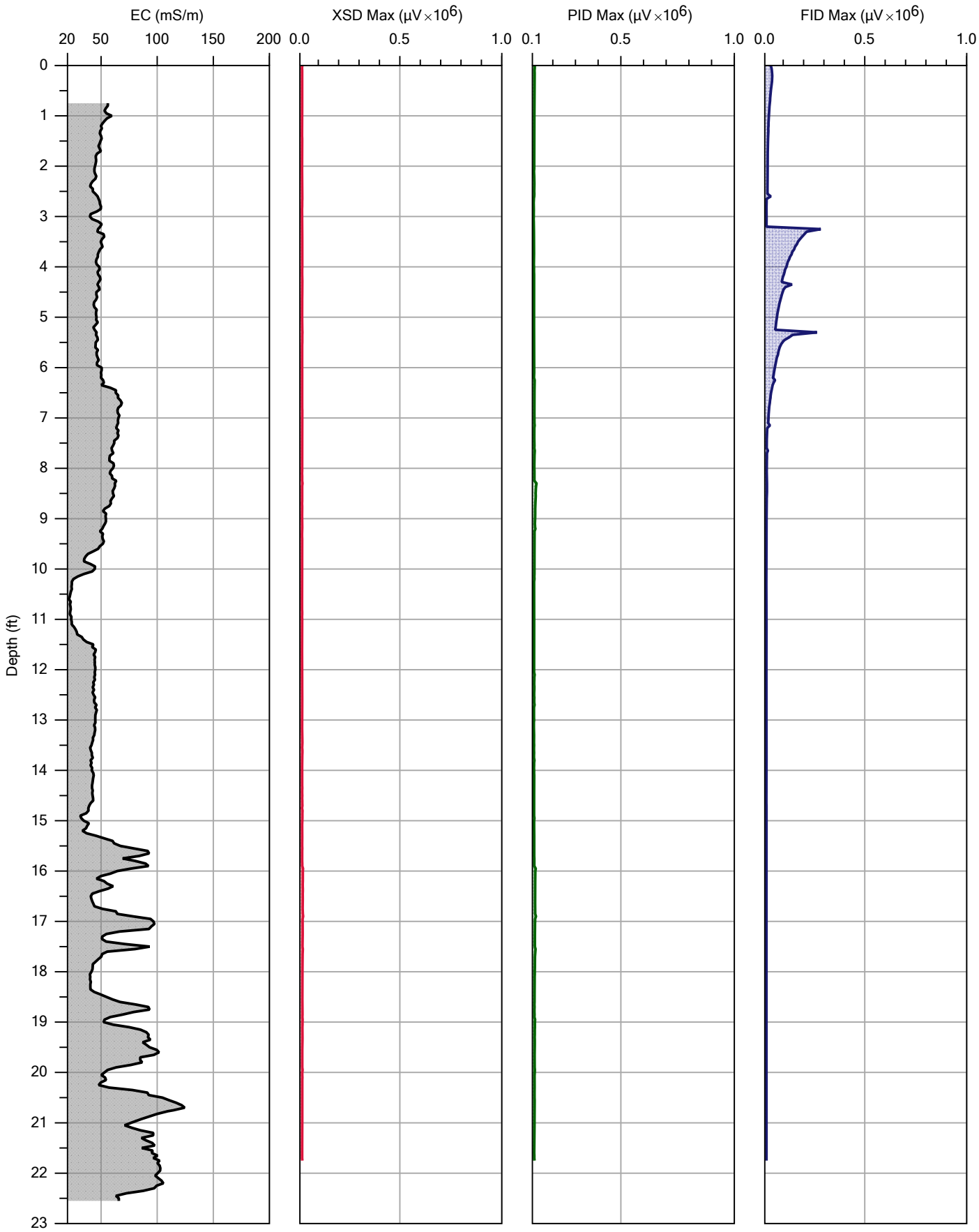
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-35.MIP
Company: BGS	Operator: MTO	Date: 3/7/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



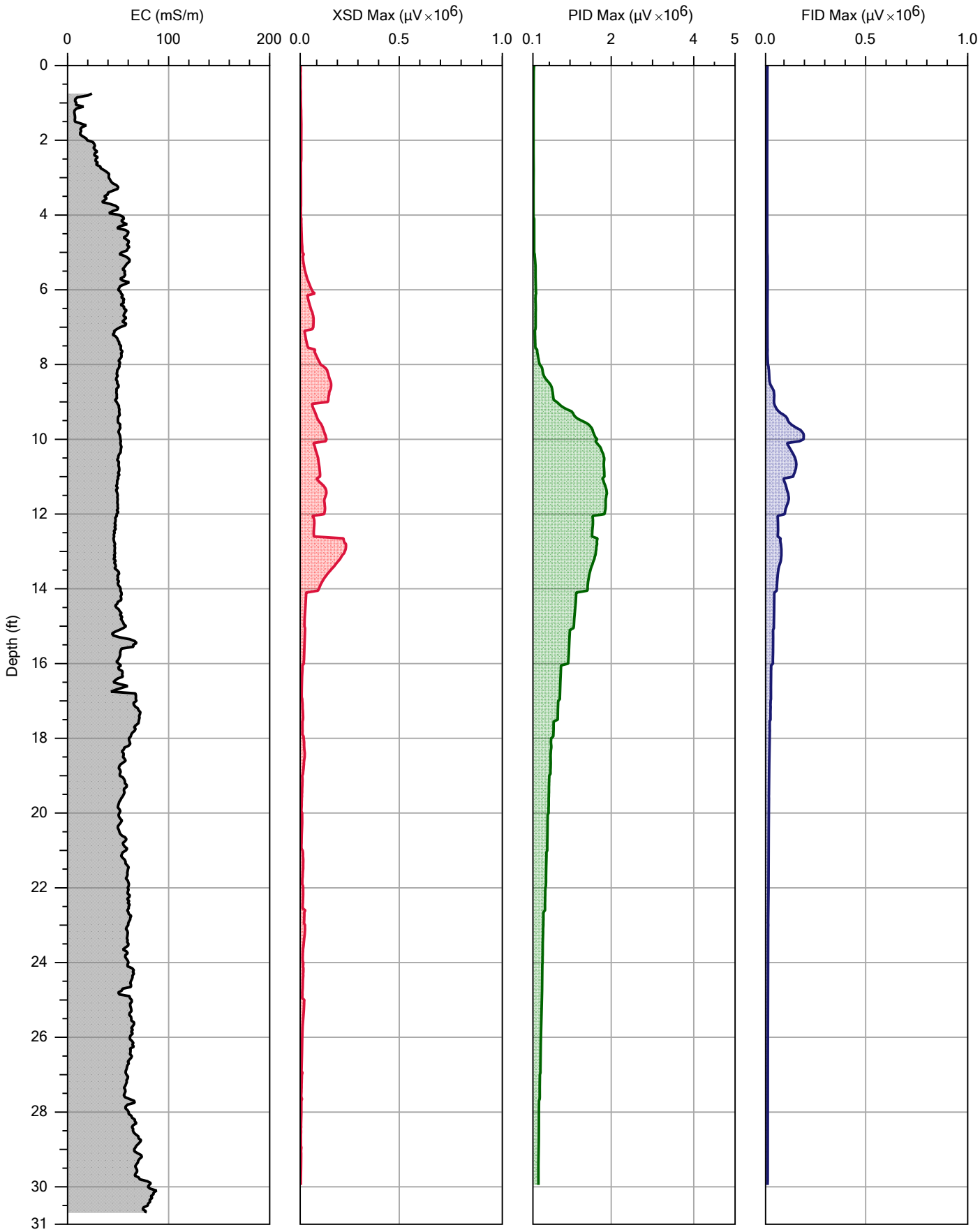
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-36.MIP
Company: BGS	Operator: MTO	Date: 3/7/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



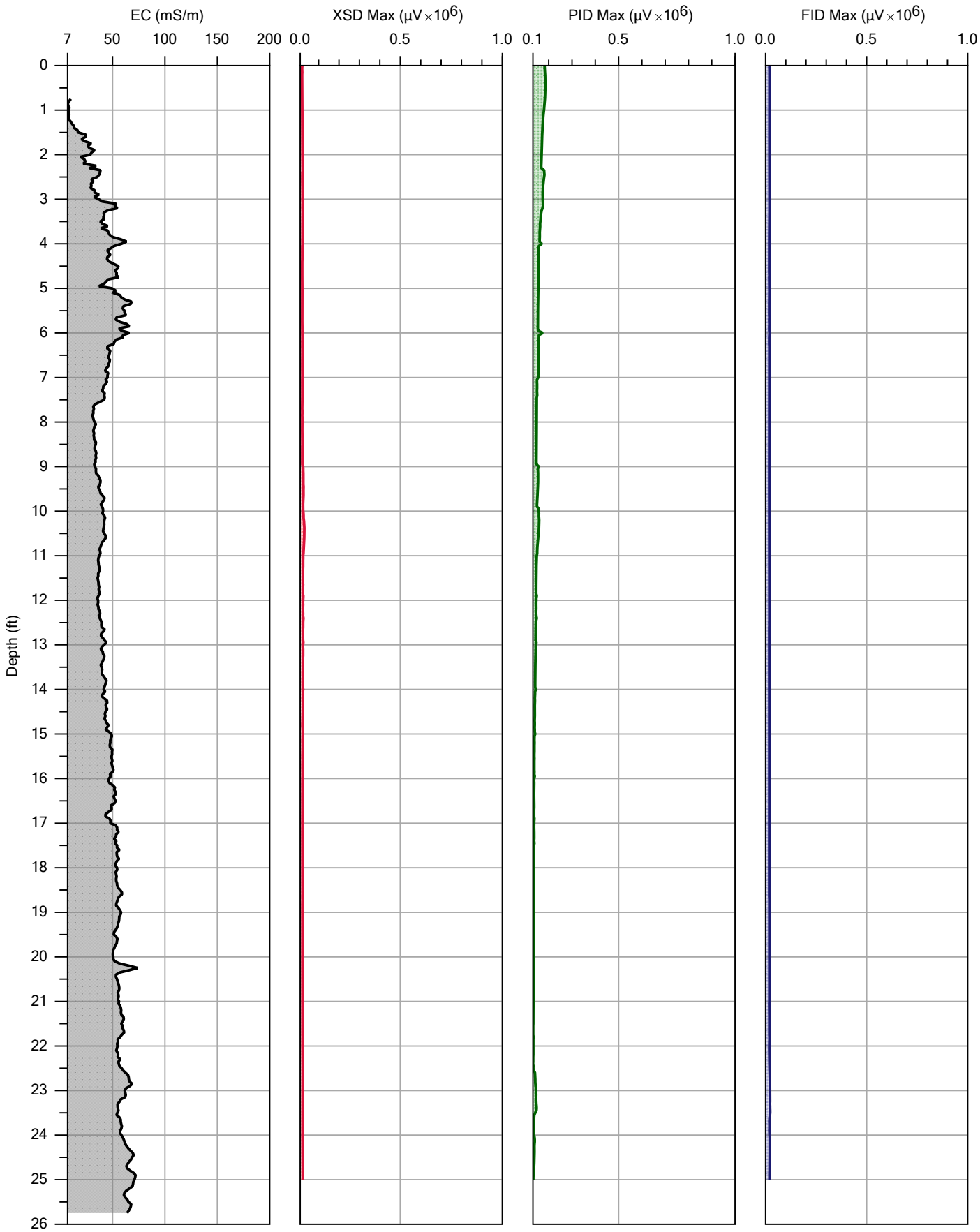
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-37.MIP
Company: BGS	Operator: MTO	Date: 3/8/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



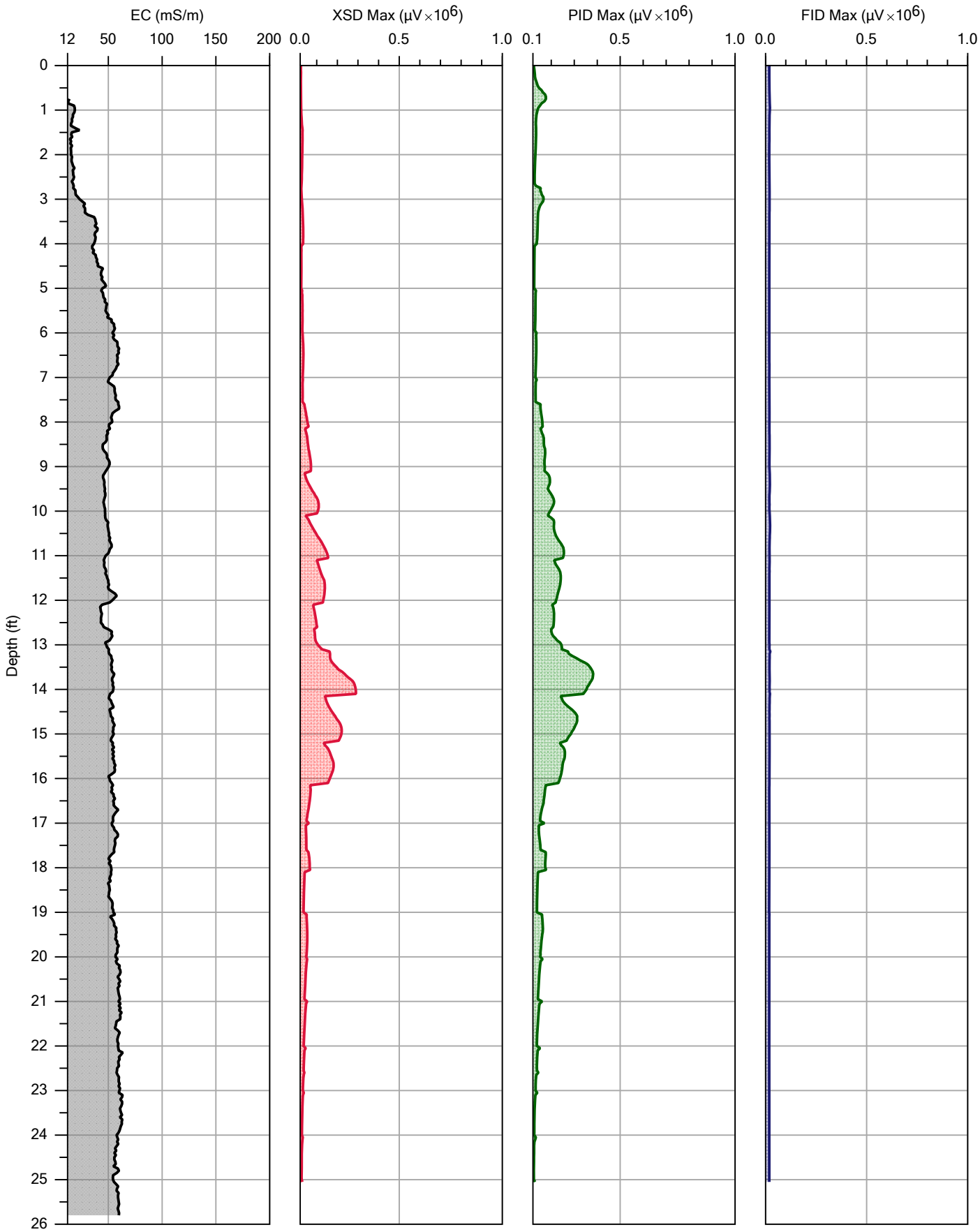
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-38.MIP
Company: BGS	Operator: MTO	Date: 3/8/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



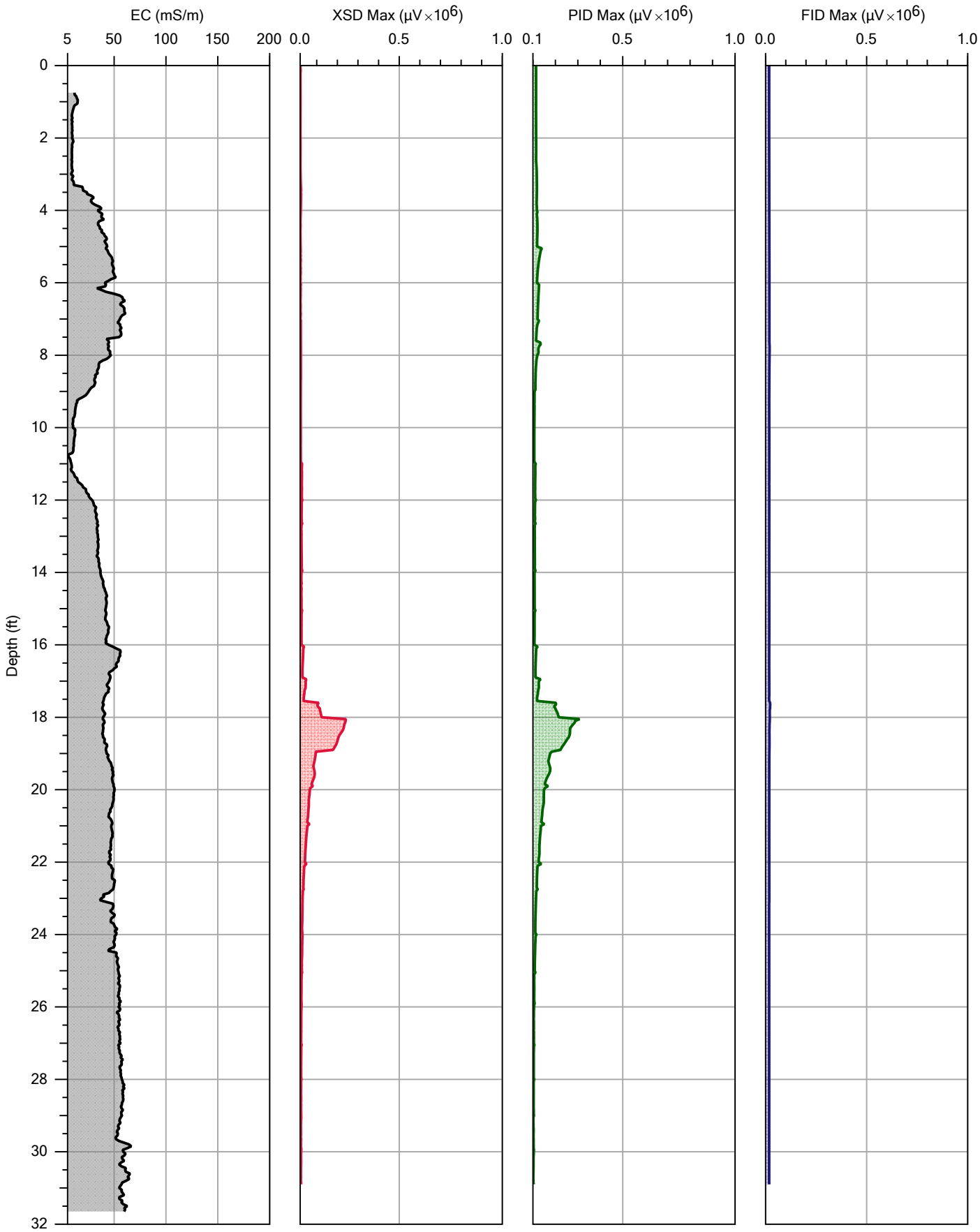
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-39.MIP
Company: BGS	Operator: MTO	Date: 3/8/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



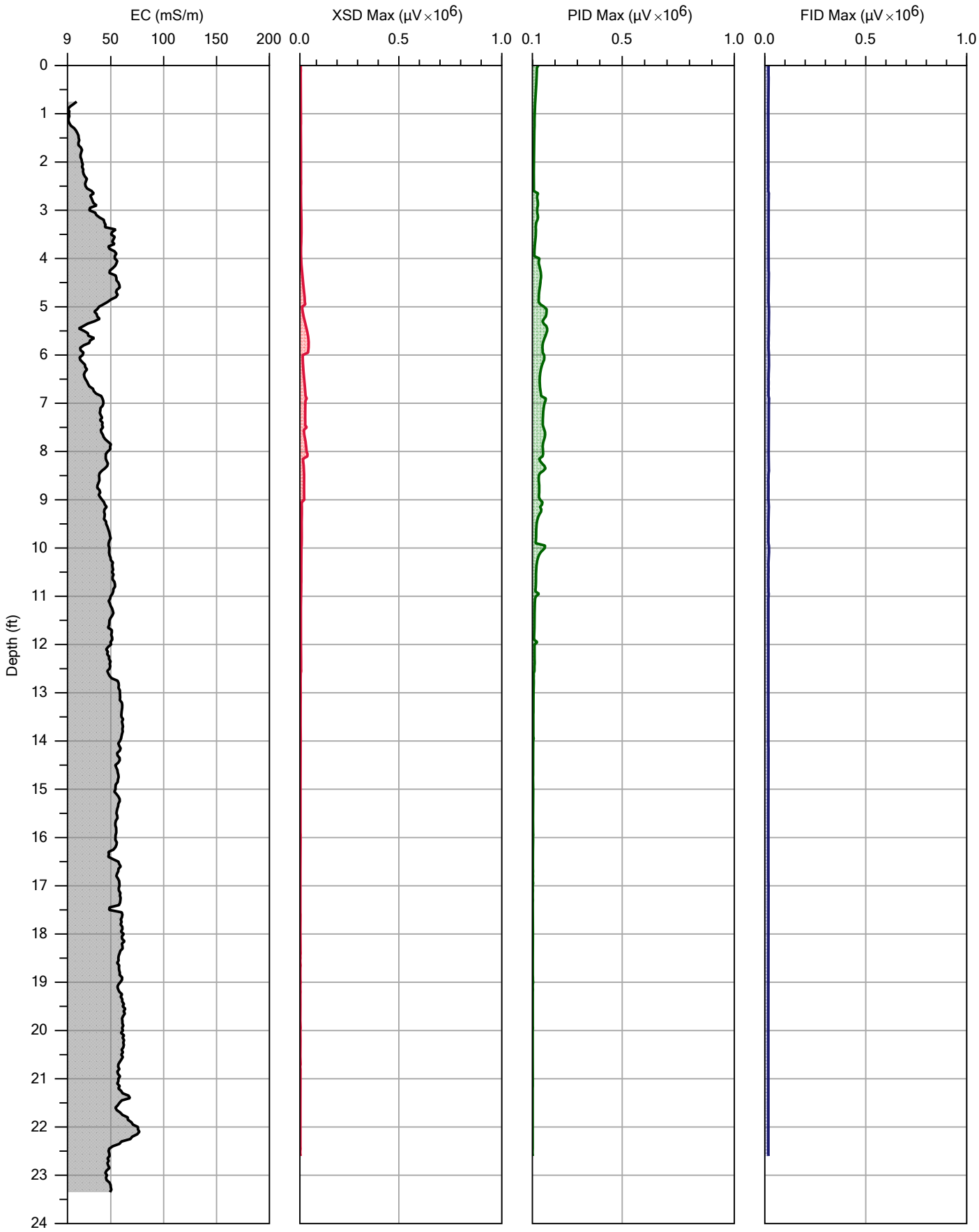
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-40.MIP
Company: BGS	Operator: MTO	Date: 3/8/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



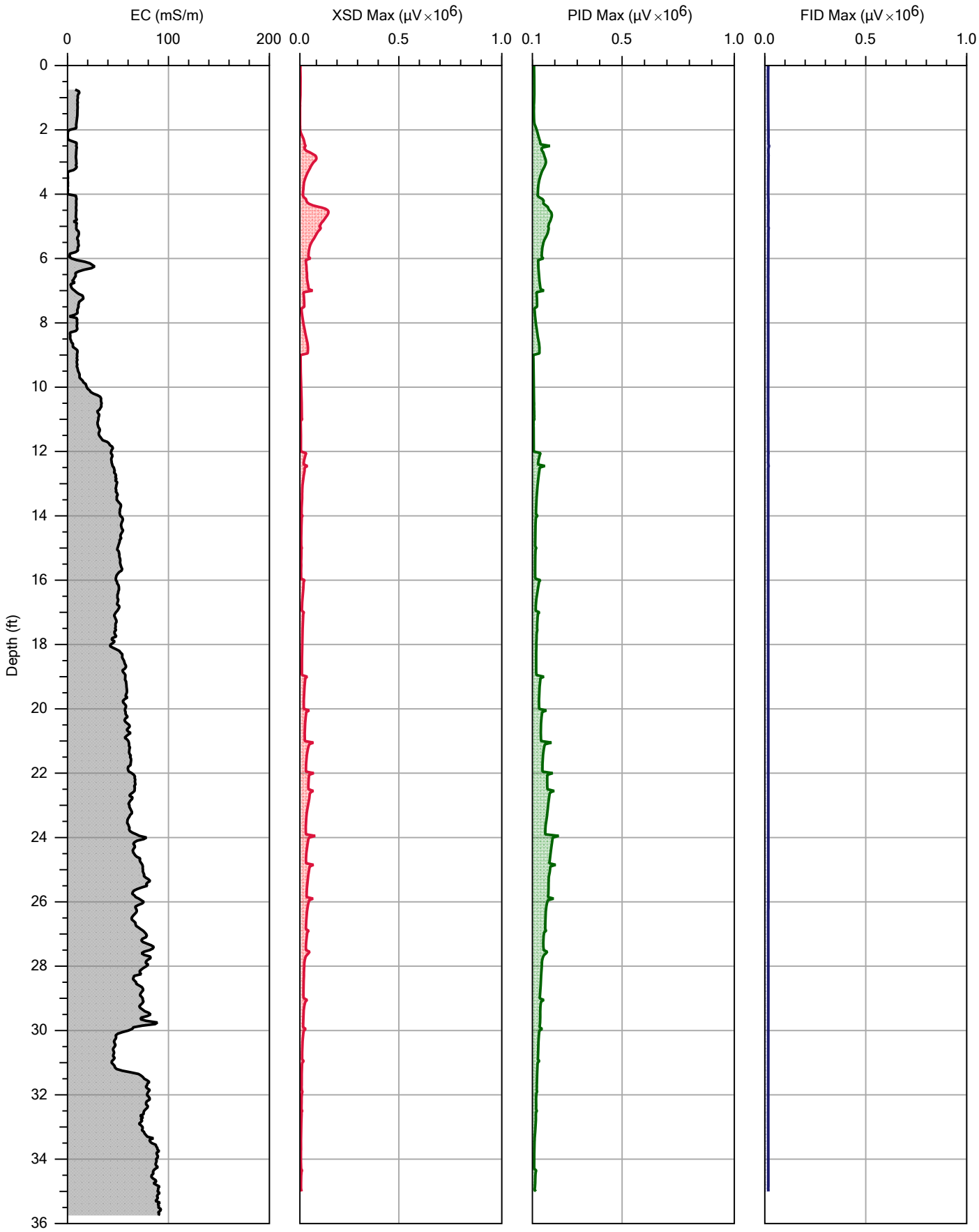
BGS
BELOW GROUND SURFACE, INC.

		File: MIP-41.MIP
Company: BGS	Operator: MTO	Date: 3/8/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



BGS
BELOW GROUND SURFACE, INC.

		File: MIP-42.MIP
Company: BGS	Operator: MTO	Date: 3/8/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA



BGS
BELOW GROUND SURFACE, INC.

		File: MIP-43.MIP
Company: BGS	Operator: MTO	Date: 3/9/2022
Project ID: Tanglefoot Ln	Client: TetraTech	Location: Bettendorf, IA

ATTACHMENT 2

ANALYTICAL DATA TABLE

TABLE 1

OCTOBER 2021 ANALYTICAL RESULTS - SOIL

Sample ID	Sample Location	Depth	Analyte											
			Acetone	Benzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chloroethane	2-Chlorotoluene	Cyclohexane	1,2-Dichlorobenzene	1,4-Dichlorobenzene
Protection of Groundwater Risk-based SSL[a]			**7.40E+04**	**4.6**	**24,000**	**64,000**	**118,000**	**32,000**	**4,800**	**48,000**	**4,600**	**260,000**	**6,000**	**9.2**
Protection of Groundwater MCL-based SSL			**NE**	**52**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**11,600**	**1,440**
Iowa Statewide Standard for Soil			**6.80E+07**	**56,000**	**6,100,000**	**3,800**	**NE**	**NE**	**7,600,000**	**30,000,000**	**1,500**	**NE**	**5,500,000**	**760**
9039-1	DPT-21	15'-20'	2,100 J	14	14	NA	NA	NA	5.4	21	NA	23	25 J	4.9 UJ
9039-2	DPT-21	20'-25'	14,000	53	53	NA	NA	NA	11	7.9	NA	5.0 U	5.0 UJ	5.0 UJ
9039-3	DPT-22	10'-15'	270	8.3	8.3	NA	NA	NA	8.3 U	8.3 U	NA	26	100	8.3 U
9039-4	DPT-22	15'-20'	4,200 J	18	18	NA	NA	NA	7.2	4.7 U	NA	7.6	4.7 U	4.7 UJ
9039-5	DPT-23	10'-15'	5,300 U	2,600 U	2,600 U	NA	NA	NA	2,600 U	2,600 U	NA	12,000	2,600 U	2,600 U
9039-6	DPT-23	15'-20'	5,300 U	2,600 U	2,600 U	NA	NA	NA	2,600 U	2,600 U	NA	2,600 U	2,600 U	2,600 U
9039-7	DPT-24	25'-30'	2,000	4.6 U	4.6U	NA	NA	NA	4.6 U	4.6 U	NA	4.6 U	7.6	4.6 UJ
9039-8	DPT-24	30'-35'	280	23	23	NA	NA	NA	9.2 U	9.2 U	NA	9.2 U	9.2 U	9.2 U
9039-9	DPT-25	20'-25'	260	5.8	5.8	NA	NA	NA	5.5 U	5.5 U	NA	56 J	30J	5.5 UJ
9039-10	DPT-25	25'-30'	13,000	15	15	NA	NA	NA	4.2 U	4.2 U	NA	9.4	4.2 U	4.2 U
9039-11	DPT-26	5'-10'	20	4.9 U	4.9 U	NA	NA	NA	4.9 U	4.9 U	NA	4.9 U	4.9 U	4.9 U
9039-12	DPT-26	10'-15'	110	4.3 U	4.3 U	NA	NA	NA	4.3 U	4.3 U	NA	4.3 U	4.3 U	4.3 U

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Based on the MCL for total xylenes

[c] Reported as "Total Xylenes"

Cells shaded orange indicates exceedance of MCL based SSL (or risk-based SSL if no MCL has been established), or Iowa Statewide Standard for Soil

Cells shaded red indicate exceedence of both EPA SSL and Iowa Statewide Standard for Soil

ID	Identification
J	Estimated value
NA	Not Analyzed
PCE	Tetrachloroethene
SSL	Soil Screening Levels
TCE	Trichloroethene
U	Analyte not detected at concentration at or above value at left

TABLE 1

OCTOBER 2021 ANALYTICAL RESULTS - SOIL

Sample ID	Sample Location	Depth	Analyte									
			1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	*cis* -1,2-Dichloroethene	*trans*- 1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methyl Acetate	Methylcyclohexane
Protection of Groundwater Risk-based SSL[a]			**15.6**	**0.96**	**2,000**	**220**	**420**	**34**	**14,800**	**NE**	**82,000**	**NE**
Protection of Groundwater MCL-based SSL			**NE**	**28**	**50.0**	**420**	**620**	**15,600**	**NE**	**NE**	**NE**	**NE**
Iowa Statewide Standard for Soil			**1,500,000**	**34,000**	**380,000**	**150,000**	**1,500,000**	**7,600,000**	**NE**	**NE**	**NE**	**NE**
9039-1	DPT-21	15'-20'	5,400	20	100 J	110,000	41 J	81	5.2 J	NA	4.9 U	4.9 U
9039-2	DPT-21	20'-25'	4,000	26	200 J	27,000	29 J	5.0 U	5.0 UJ	NA	5.0 U	5.0 U
9039-3	DPT-22	10'-15'	450 J	12	160 J	19,000	8.3 U	70	14	NA	8.3 U	35
9039-4	DPT-22	15'-20'	3,500	26	200 J	45,000	49 J	33	4.7 U	NA	4.7 U	4.7 U
9039-5	DPT-23	10'-15'	2,600 U	2,600 U	3,200	39,000	2,600 U	15,000	2,600 U	NA	2,600 U	12,000
9039-6	DPT-23	15'-20'	2,600 U	2,600 U	2,600 U	9,900	2,600 U	2,800	2,600 U	NA	2,600 U	2,600 U
9039-7	DPT-24	25'-30'	67	4.6 U	29	7,700	5.1	12	4.6 U	NA	4.6 U	4.6 U
9039-8	DPT-24	30'-35'	2,900	9.2 U	150 J	34,000	44 J	11	9.2 U	NA	9.2 U	9.2 U
9039-9	DPT-25	20'-25'	290 J	5.5 U	30	9,200	7.7	120	5.5 U	NA	5.5 U	12 J
9039-10	DPT-25	25'-30'	3,100	18	75 J	47,000	4.2 U	4.4	4.2 U	NA	4.2 U	32
9039-11	DPT-26	5'-10'	4.9 U	4.9 U	4.9 U	64	4.9 U	4.9 U	4.9 U	NA	4.9 U	4.9 U
9039-12	DPT-26	10'-15'	4.3 U	4.3 U	17	880	4.3 U	4.3 U	4.3 U	NA	6.7	4.3 U

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Based on the MCL for total xylenes

[c] Reported as "Total Xylenes"

Cells shaded orange indicates exceedance of MCL based SSL (or risk-based SSL if no MCL has been established), or Iowa Statewide Standard for Soil

Cells shaded red indicate exceedence of both EPA SSL and Iowa Statewide Standard for Soil

ID	Identification
J	Estimated value
NA	Not Analyzed
PCE	Tetrachloroethene
SSL	Soil Screening Levels
TCE	Trichloroethene
U	Analyte not detected at concentration at or above value at left

TABLE 1

OCTOBER 2021 ANALYTICAL RESULTS - SOIL

Sample ID	Sample Location	Depth	Analyte									
			4-Methyl-2-Pentanone	Naphthalene	n-Propylbenzene	PCE	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	TCE
Protection of Groundwater Risk-based SSL[a]			**28,000**	**7.6**	**24,000**	**102**	**15,200**	**420**	**68**	**56,000**	**1.78**	**3.6**
Protection of Groundwater MCL-based SSL			**NE**	**NE**	**NE**	**46**	**13,800**	**NE**	**4,000**	**1,400**	**32**	**36**
Iowa Statewide Standard for Soil			**NE**	**1,100**	**7,600**	**1,500,000**	**6,100,000**	**NE**	**760**	**150,000,000**	**54,000**	**67,000**
9039-1	DPT-21	15'-20'	230 J	NA	NA	170	120,000	4.9 UJ	4.9 UJ	170	4.9 U	37,000 J
9039-2	DPT-21	20'-25'	430 J	NA	NA	5.0 U	36,000	5.0 UJ	5.0 UJ	5.0 U	5.0 U	89,000
9039-3	DPT-22	10'-15'	34	NA	NA	57	27,000	8.3 U	8.3 U	6,300	8.3 U	80
9039-4	DPT-22	15'-20'	260	NA	NA	36	60,000	4.7 U	4.7 U	480 J	10	33
9039-5	DPT-23	10'-15'	5,300 U	NA	NA	74,000	3,800,000	2,600 UJ	2,600 UJ	740,000	2,600 U	3,600,000
9039-6	DPT-23	15'-20'	5,300 U	NA	NA	20,000	740,000	2,600 UJ	2,600 UJ	190,000	2,600 U	810,000
9039-7	DPT-24	25'-30'	68	NA	NA	17	5,800	4.6 U	4.6 U	1,200	4.6 U	450 J
9039-8	DPT-24	30'-35'	87	NA	NA	9.2 U	23,000	9.2 U	9.2 U	130	9.2 U	280
9039-9	DPT-25	20'-25'	41 J	NA	NA	260 J	21,000	5.5 UJ	5.5 UJ	100	5.5 U	34
9039-10	DPT-25	25'-30'	350 J	NA	NA	4.2 U	28,000	4.2 U	4.2 U	4.9	9.4	4.2 U
9039-11	DPT-26	5'-10'	9.8 U	NA	NA	4.9 U	4.9 U	4.9 U	4.9 U	28	4.9 U	62
9039-12	DPT-26	10'-15'	8.7 U	NA	NA	5.1	4.3 U	4.3 U	4.3 U	1,100	4.3	1,700

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Based on the MCL for total xylenes

[c] Reported as "Total Xylenes"

Cells shaded orange indicates exceedance of MCL based SSL (or risk-based SSL if no MCL has been established), or Iowa Statewide Standard for Soil

Cells shaded red indicate exceedence of both EPA SSL and Iowa Statewide Standard for Soil

ID	Identification
J	Estimated value
NA	Not Analyzed
PCE	Tetrachloroethene
SSL	Soil Screening Levels
TCE	Trichloroethene
U	Analyte not detected at concentration at or above value at left

TABLE 1

OCTOBER 2021 ANALYTICAL RESULTS - SOIL

Sample ID	Sample Location	Depth	Analyte					
			1,1,2-Trichlorotrifluoroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	m/p-Xylene	o-Xylene
Protection of Groundwater Risk-based SSL[a]			**520,000**	**1,620**	**1,740**	**0.13**	**3,800**	**3,800**
Protection of Groundwater MCL-based SSL			**NE**	**NE**	**NE**	**13.8**	**198,000[b]**	**198,000[b]**
Iowa Statewide Standard for Soil			**2,300,000,000**	**760**	**760**	**2,100**	**15,000,000**	**15,000,000**
9039-1	DPT-21	15'-20'	5,400	NA	NA	170	300 J	100
9039-2	DPT-21	20'-25'	5.0 U	NA	NA	38	5.0 U	5.0 U
9039-3	DPT-22	10'-15'	170	NA	NA	170	280	89
9039-4	DPT-22	15'-20'	150	NA	NA	34	120	43
9039-5	DPT-23	10'-15'	2,900	NA	NA	2,600 U	30,000	12,000
9039-6	DPT-23	15'-20'	2,700	NA	NA	2,600 U	6,000	2,600 U
9039-7	DPT-24	25'-30'	45	NA	NA	4.6 U	45	16
9039-8	DPT-24	30'-35'	24	NA	NA	9.2 U	30	11
9039-9	DPT-25	20'-25'	170	NA	NA	18	250 J	150
9039-10	DPT-25	25'-30'	6.5	NA	NA	5.3	12	5.4
9039-11	DPT-26	5'-10'	4.9 U	NA	NA	4.9 U	4.9 U	4.9 U
9039-12	DPT-26	10'-15'	4.4	NA	NA	4.3 U	4.3 U	4.3 U

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Based on the MCL for total xylenes

[c] Reported as "Total Xylenes"

Cells shaded orange indicates exceedance of MCL based SSL (or risk-based SSL if no MCL has been established), or Iowa Statewide Standard for Soil

Cells shaded red indicate exceedence of both EPA SSL and Iowa Statewide Standard for Soil

ID	Identification
J	Estimated value
NA	Not Analyzed
PCE	Tetrachloroethene
SSL	Soil Screening Levels
TCE	Trichloroethene
U	Analyte not detected at concentration at or above value at left

TABLE 2

MARCH 2022 ANALYTICAL RESULTS - SOIL

Sample ID	Sample Location	Depth	Analyte											
			Acetone	Benzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chloroethane	2-Chlorotoluene	Cyclohexane	1,2-Dichlorobenzene	1,4-Dichlorobenzene
Protection of Groundwater Risk-based SSL[a]			**7.40E+04**	**4.6**	**24,000**	**64,000**	**118,000**	**32,000**	**4,800**	**48,000**	**4,600**	**260,000**	**6,000**	**9.2**
Protection of Groundwater MCL-based SSL			**NE**	**52**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**11,600**	**1,440**
Iowa Statewide Standard for Soil			**6.80E+07**	**56,000**	**6,100,000**	**3,800**	**NE**	**NE**	**7,600,000**	**30,000,000**	**1,500**	**NE**	**5,500,000**	**760**
60395120005	DPT-27	5'-10'	<16.7	1.0 J	<3.5	<0.67	<0.75	<0.91	<0.66	<1.5	<0.75	NA	<0.65	<0.84
60395120006	DPT-28	10'-15'	<260	42.8 J	312 J	<54.7	<45.6	<38.2	<31.6	446	<33.2	NA	<46.2	<45.8
60395120009	DPT-29	15'-20'	<270	63.6 J	254 J	<56.6	<47.2	<39.5	<32.7	538	<34.4	NA	<47.8	<47.4
60395120010	DPT-30	5'-10'	<16.3	1.9 J	<3.4	<0.65	<0.73	<0.89	0.79 J	51	<0.73	NA	<0.63	<0.81
60395120013	DPT-31	5'-10'	<262	<25.3	384 J	1,800	1,490	39.7 J	<31.7	<46.1	218 J	NA	<46.4	<46.1
60395120015	DPT-32	10'-15'	57	1.6 J	18.5	2.9 J	4.5 J	<0.87	0.89 J	8.6	<0.71	NA	<0.61	<0.79
60395120016	DPT-33	10'-15'	56.8	0.96 J	22.9	<0.66	<0.74	<0.90	1.3 J	<1.5	<0.74	NA	<0.64	<0.82
60395120019	DPT-34	15'-20'	<14.7	1.1 J	3.6 J	<0.59	<0.66	<0.80	<0.58	<1.4	<0.66	NA	<0.57	<0.73
60395120020	DPT-35	10'-15'	1,250	<24.7	397 J	1,640	971	54.5 J	<30.9	60.4 J	<32.6	NA	701	58.5 J
60395120021	DPT-36	15'-20'	420 J	<23.0	313 J	439	286	<34.8	<28.8	44.9 J	212 J	NA	401	<41.8
60395120022	DPT-37	20'-25'	415 J	68.8 J	234 J	<55.7	<46.5	<38.9	<32.1	<46.7	<33.9	NA	<47.1	<46.7
60395120023	DPT-38	10'-15'	28.3	1.3 J	8.4 J	<0.63	<0.71	<0.86	<0.62	<1.5	<0.71	NA	<0.61	<0.79
60395120001	DPT-L1	5'-8'	<17.1	0.66 J	<3.6	<0.69	<0.77	<0.93	<0.68	<1.6	<0.77	NA	<0.66	<0.86
60395120002	DPT-L2	25'-30'	20.2	1.3 J	7.2 J	<0.65	<0.73	<0.88	<0.64	<1.5	<0.73	NA	<0.63	<0.81
60395120003	DPT-L3	5'-10'	180	65.4	42.9	20.3	24.7	<1.7	<1.2	242	<1.4	NA	<1.2	<1.5
60395120004	DPT-L4	10'-15'	199	52.4	40.3	<1.3	<1.4	<1.7	<1.2	<2.9	2.8 J	NA	<1.2	<1.6

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Based on the MCL for total xylenes

[c] Reported as "Total Xylenes"

Cells shaded orange indicates exceedance of MCL based SSL (or risk-based SSL if no MCL has been established), or Iowa Statewide Standard for Soil

Cells shaded red indicate exceedence of both EPA SSL and Iowa Statewide Standard for Soil

ID	Identification
J	Estimated value
NA	Not Analyzed
PCE	Tetrachloroethene
SSL	Soil Screening Levels
TCE	Trichloroethene
U	Analyte not detected at concentration at or above value at left

TABLE 2

MARCH 2022 ANALYTICAL RESULTS - SOIL

Sample ID	Sample Location	Depth	Analyte									
			1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	*cis* -1,2-Dichloroethene	*trans*- 1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	Methyl Acetate	Methylcyclohexane
Protection of Groundwater Risk-based SSL[a]			**15.6**	**0.96**	**2,000**	**220**	**420**	**34**	**14,800**	**NE**	**82,000**	**NE**
Protection of Groundwater MCL-based SSL			**NE**	**28**	**50.0**	**420**	**620**	**15,600**	**NE**	**NE**	**NE**	**NE**
Iowa Statewide Standard for Soil			**1,500,000**	**34,000**	**380,000**	**150,000**	**1,500,000**	**7,600,000**	**NE**	**NE**	**NE**	**NE**
60395120005	DPT-27	5'-10'	24.4	<0.41	1.9 J	215	<0.70	0.72 J	<0.59	<0.71	NA	NA
60395120006	DPT-28	10'-15'	<107	<21.2	<30.7	1,800	<22.7	64.3 J	<41.9	<45.1	NA	NA
60395120009	DPT-29	15'-20'	228 J	<22.0	74.2 J	9,700	44.7 J	74.0 J	<43.3	<46.7	NA	NA
60395120010	DPT-30	5'-10'	235	<0.40	1.7 J	698	<0.46	<0.46	<0.57	<0.69	NA	NA
60395120013	DPT-31	5'-10'	149 J	<21.4	<30.9	1,250	<22.8	246 J	213 J	<45.4	NA	NA
60395120015	DPT-32	10'-15'	124	<0.39	1.7 J	3,170	4.3 J	33.5	4.3 J	1.8 J	NA	NA
60395120016	DPT-33	10'-15'	48	<0.41	17.2	8.8	<0.69	0.55 J	<0.58	<0.70	NA	NA
60395120019	DPT-34	15'-20'	3.9 J	<0.36	21.4	5.6	<0.62	0.47 J	<0.52	<0.62	NA	NA
60395120020	DPT-35	10'-15'	1,720	<20.8	111 J	6,030	<22.2	863	295	769	NA	NA
60395120021	DPT-36	15'-20'	1,810	<19.4	378	8,230	<20.7	587	113 J	218 J	NA	NA
60395120022	DPT-37	20'-25'	1,280	<21.6	474	57,600	89.4 J	57.4 J	<42.7	<46.0	NA	NA
60395120023	DPT-38	10'-15'	66.9	<0.39	35.5	95.6	0.74 J	0.54 J	<0.55	<0.67	NA	NA
60395120001	DPT-L1	5'-8'	<0.41	<0.42	<0.68	177	1.9 J	0.95 J	<0.60	<0.73	NA	NA
60395120002	DPT-L2	25'-30'	15	<0.4	2.3 J	869	5.0 J	<0.46	<0.57	<0.69	NA	NA
60395120003	DPT-L3	5'-10'	4.2 J	<0.75	<1.2	20.1	2.6 J	147	18.2	13.6	NA	NA
60395120004	DPT-L4	10'-15'	4.3 J	<0.77	<1.2	4.1 J	<1.3	39.3	4.6 J	<1.3	NA	NA

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Based on the MCL for total xylenes

[c] Reported as "Total Xylenes"

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Cells shaded red indicate exceedence of both EPA SSL and Iowa Statewide Standard for Soil

ID	Identification
J	Estimated value
NA	Not Analyzed
PCE	Tetrachloroethene
SSL	Soil Screening Levels
TCE	Trichloroethene
U	Analyte not detected at concentration at or above value at left

TABLE 2

MARCH 2022 ANALYTICAL RESULTS - SOIL

Sample ID	Sample Location	Depth	Analyte									
			4-Methyl-2-Pentanone	Naphthalene	n-Propylbenzene	PCE	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	TCE
Protection of Groundwater Risk-based SSL[a]			**28,000**	**7.6**	**24,000**	**102**	**15,200**	**420**	**68**	**56,000**	**1.78**	**3.6**
Protection of Groundwater MCL-based SSL			**NE**	**NE**	**NE**	**46**	**13,800**	**NE**	**4,000**	**1,400**	**32**	**36**
Iowa Statewide Standard for Soil			**NE**	**1,100**	**7,600**	**1,500,000**	**6,100,000**	**NE**	**760**	**150,000,000**	**54,000**	**67,000**
60395120005	DPT-27	5'-10'	<3.1	<0.85	<0.83	<0.43	<1.4 J	<0.82	<0.82	41.5	<0.65	13.4
60395120006	DPT-28	10'-15'	<110	<82.3	<43.8	<27.0	27,100	<86.8	<67.4	<25.0	<37.6	<26.3
60395120009	DPT-29	15'-20'	<114	<85.2	<45.3	<27.9	28,400	<89.8	<69.8	<25.8	<38.9	<27.2
60395120010	DPT-30	5'-10'	<3.0	<0.82	<0.81	0.63 J	<1.1 J	<0.80	<0.80	4.4 J	<0.63	0.93 J
60395120013	DPT-31	5'-10'	5,300	<82.8	828	<27.1	<61.4 J	242 J	<67.8	243 J	<37.8	546
60395120015	DPT-32	10'-15'	<3.0	7.6 J	10.7	0.94 J	18	<0.78	<0.78	1.5 J	<0.62	16.7
60395120016	DPT-33	10'-15'	<3.1	<0.83	<0.82	13.6	<1.2 J	<0.81	<0.81	47.6	<0.64	3,440
60395120019	DPT-34	15'-20'	<2.7	<0.74	<0.73	15.5	<1.3 J	<0.72	<0.72	201	<0.57	3,410
60395120020	DPT-35	10'-15'	<108	646	889	994	24,300	244 J	291 J	4,570	<36.8	<25.7
60395120021	DPT-36	15'-20'	<100	521 J	329	1,220	49,300	216 J	265 J	18,600	<34.2	13,400
60395120022	DPT-37	20'-25'	549 J	<83.9	<44.6	<27.5	37,400	<88.4	<68.7	<25.4	<38.3	4,590
60395120023	DPT-38	10'-15'	<2.9	<0.80	<0.78	1.4 J	<1.6 J	<0.77	<0.77	99.2	<0.61	1,950
60395120001	DPT-L1	5'-8'	<3.2	7.8 J	<0.85	<0.44	<1.4 J	<4.2 J	<5.1 J	<0.79	<0.67	21.2
60395120002	DPT-L2	25'-30'	<3.0	<0.82	<0.80	<0.41	<1.3 J	<0.80	<0.80	<0.75	<0.63	6,440
60395120003	DPT-L3	5'-10'	<5.7	15.8 J	37.4	<0.78	69.9	<7.7 J	<1.5	9.0 J	<1.2	2.8 J
60395120004	DPT-L4	10'-15'	<5.9	14.4 J	5.3 J	<0.8	<8.1 J	<1.5	<1.5	<1.4	<1.2	<1.4

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Based on the MCL for total xylenes

[c] Reported as "Total Xylenes"

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Cells shaded red indicate exceedence of both EPA SSL and Iowa Statewide Standard for Soil

ID	Identification
J	Estimated value
NA	Not Analyzed
PCE	Tetrachloroethene
SSL	Soil Screening Levels
TCE	Trichloroethene
U	Analyte not detected at concentration at or above value at left

TABLE 2

MARCH 2022 ANALYTICAL RESULTS - SOIL

Sample ID	Sample Location	Depth	Analyte					
			1,1,2-Trichlorotrifluoroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	m/p-Xylene	o-Xylene
Protection of Groundwater Risk-based SSL[a]			**520,000**	**1,620**	**1,740**	**0.13**	**3,800**	**3,800**
Protection of Groundwater MCL-based SSL			**NE**	**NE**	**NE**	**13.8**	**198,000[b]**	**198,000[b]**
Iowa Statewide Standard for Soil			**2,300,000,000**	**760**	**760**	**2,100**	**15,000,000**	**15,000,000**
60395120005	DPT-27	5'-10'	<0.63	<0.69	<0.65	<0.69	1.5 J[c]	
60395120006	DPT-28	10'-15'	<31.6	43.5 J	<42.8	1,060	307[c]	
60395120009	DPT-29	15'-20'	<32.7	42.4 J	<44.3	4,100	331[c]	
60395120010	DPT-30	5'-10'	<0.62	<0.67	<0.63	140	1.8 J[c]	
60395120013	DPT-31	5'-10'	<31.7	1,530	649	51.3 J	423[c]	
60395120015	DPT-32	10'-15'	<0.60	22.8	7.1	67.2	190[c]	
60395120016	DPT-33	10'-15'	<0.62	<0.68	<0.64	<0.68	<1.2[c]	
60395120019	DPT-34	15'-20'	<0.56	<0.61	<0.57	<0.60	<1.0[c]	
60395120020	DPT-35	10'-15'	<30.9	6,200	2,010	1,450	4910[c]	
60395120021	DPT-36	15'-20'	<28.8	2,340	728	480	2980[c]	
60395120022	DPT-37	20'-25'	<32.1	<36.1	<43.6	4,520	254 J[c]	
60395120023	DPT-38	10'-15'	<0.60	<0.65	<0.61	<0.65	<1.1[c]	
60395120001	DPT-L1	5'-8'	<0.65	<0.71	<0.66	<0.7	<1.2[c]	
60395120002	DPT-L2	25'-30'	<0.61	<0.67	<0.63	21.4	<1.1[c]	
60395120003	DPT-L3	5'-10'	<1.2	105	31.7	<1.3	695[c]	
60395120004	DPT-L4	10'-15'	<1.2	12	4.2 J	<1.3	112[c]	

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Based on the MCL for total xylenes

[c] Reported as "Total Xylenes"

Cells shaded orange indicates exceedance of MCL based SSL (or risk-based SSL if no MCL has been established), or Iowa Statewide Standard for Soil

Cells shaded red indicate exceedence of both EPA SSL and Iowa Statewide Standard for Soil

ID	Identification
J	Estimated value
NA	Not Analyzed
PCE	Tetrachloroethene
SSL	Soil Screening Levels
TCE	Trichloroethene
U	Analyte not detected at concentration at or above value at left

TABLE 3

MARCH 2022 ANALYTICAL RESULTS VOCs- SEDIMENT

Sample ID	Sample Location	Analyte										Analyte	
		Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Cyclohexane	1,2-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	*cis* -1,2-Dichloroethene	*trans*- 1,2-Dichloroethene
Protection of Groundwater Risk-based SSL[a]		**7.40E+04**	**4.6**	**24,000**	**4,800**	**48,000**	**260,000**	**6,000**	**15.6**	**0.96**	**2,000**	**220**	**420**
Protection of Groundwater MCL-based SSL		**NE**	**52**	**NE**	**NE**	**NE**	**NE**	**11,600**	**NE**	**28**	**50.0**	**420**	**620**
Iowa Statewide Standard for Soil		**6.80E+07**	**56,000**	**6,100,000**	**7,600,000**	**30,000,000**	**NE**	**5,500,000**	**1,500,000**	**34,000**	**380,000**	**150,000**	**1,500,000**
60395120011	SED-1	50.6	<0.91	15.0J	<1.2	<2.8	NA	<1.1	<0.72	<0.73	<1.2	1.5J	<1.2
60395120014	SED-2	<22.8	<0.69	<4.8	<0.90	<2.1	NA	<0.88	<0.55	<0.56	<0.90	<0.61	<0.95
60395120018	SED-3	25.1J	<0.65	6.8J	<0.85	<2.0	NA	<0.83	<0.52	<0.53	<0.84	9.4	1.8J

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Based on the MCL for total xylenes

Cells shaded orange indicates exceedance of MCL based SSL (or risk-based SSL if no MCL has been established), or Iowa Statewide Standard for Soil

Cells shaded red indicate exceedence of both EPA SSL and Iowa Statewide Standard for Soil

ID	Identification
J	Estimated value
NA	Not Analyzed
NE	Not Established
PCE	Tetrachloroethene
SED	Sediment
SSL	Soil Screening Levels
TCE	Trichloroethene

TABLE 3

MARCH 2022 ANALYTICAL RESULTS VOCs- SEDIMENT

Sample ID	Sample Location	Analyte												
		Ethylbenzene	Isopropylbenzene	Methyl Acetate	Methylcyclohexane	4-Methyl-2-Pentanone	PCE	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	TCE	1,1,2-Trichlorotrifluoroethane	Vinyl Chloride	m/p-Xylene	o-Xylene
Protection of Groundwater Risk-based SSL[a]		**34**	**14,800**	**82,000**	**NE**	**28,000**	**102**	**15,200**	**56,000**	**1.78**	**3.6**	**520,000**	**0.13**	**3,800**	**3,800**
Protection of Groundwater MCL-based SSL		**15,600**	**NE**	**NE**	**NE**	**NE**	**46**	**13,800**	**1,400**	**32**	**36**	**NE**	**13.8**	**198,000[b]**	**198,000[b]**
Iowa Statewide Standard for Soil		**7,600,000**	**NE**	**NE**	**NE**	**NE**	**1,500,000**	**6,100,000**	**150,000,000**	**54,000**	**67,000**	**2,300,000,000**	**2,100**	**15,000,000**	**15,000,000**
60395120011	SED-1	<0.85	<1.0	NA	NA	<5.6	<0.76	<0.65	<1.4	<1.2	<1.3	<1.1	<1.2	<2.1	NA
60395120014	SED-2	<0.65	<0.80	NA	NA	<4.3	<0.58	<0.49	<1.1	<0.89	<1.0	<0.86	<0.94	<1.6	NA
60395120018	SED-3	<0.61	<0.75	NA	NA	<4.0	<0.55	<0.46	<0.99	<0.83	<0.96	<0.81	<0.88	<1.5	NA

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Based on the MCL for total xylenes

Cells shaded orange indicates exceedance of MCL based SSL (or risk-based SSL if no MCL has been established), or Iowa Statewide Standard for Soil

Cells shaded red indicate exceedence of both EPA SSL and Iowa Statewide Standard for Soil

ID	Identification
J	Estimated value
NA	Not Analyzed
NE	Not Established
PCE	Tetrachloroethene
SED	Sediment
SSL	Soil Screening Levels
TCE	Trichloroethene

TABLE 4

MARCH 2022 ANALYTICAL RESULTS PCBs - SEDIMENT

Sample ID	Sample Location	Analyte						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
Protection of Groundwater Risk-based SSL[a]		**420**	**1.6**	**1.6**	**24**	**24**	**40**	**110**
Protection of Groundwater MCL-based SSL		**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
Iowa Statewide Standard for Soil		**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
60395120011	SED-1	<86.4	<82.9	<37.9	<83.8	<23.0	<32.6	<68.5
60395120014	SED-2	<59.2	<56.8	<26.0	<57.4	<15.8	<22.3	<46.9
60395120018	SED-3	<3110	<2980	<1370	162000	<828	<1170	<2470

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Cells shaded orange indicates exceedance of MCL based SSL (or risk-based SSL if no MCL has been established)

ID	Identification
NE	Not Established
SED	Sediment
SSL	Soil Screening Levels

TABLE 5

MARCH 2022 ANALYTICAL RESULTS - SURFACE WATER

Sample ID	Sample Location	Analyte							
		Acetone	Benzene	Chloroethane	1,1-Dichloroethane	*cis*- 1,2-Dichloroethene	*trans*- 1,2-Dichloroethene	TCE	Vinyl Chloride
EPA MCL[a]		NE	5.0	NE	NE	70	100	5.0	2.0
6095120007	SW-1	<2.5	<0.14	1.0	1.7	2.9	0.60 J	<0.59 J	1.3
60395120008	SW-1-FD	<2.5	<0.14	1.2	1.7	2.7	0.61 J	<0.58 J	1.3
60395120012	SW-2	<2.5	<0.14	<0.37	0.16 J	2.1	0.68 J	<0.64 J	0.67 J
60395120017	SW-3	<3.7	0.31 J	<0.37	1.0	30.4	3.3	2.4	9.8

Notes:

[a] Screening level based on target cancer risk (TR) of 1E-06, target hazard quotients (THQ) of 1.0, and dilution attenuation factor (DAF) of 20

[b] Cells shaded orange indicates exceedance of MCL based SSL (or risk-based SSL if no MCL has been established), or Iowa Statewide Standard for Soil

ID	Identification
J	Estimated value
MCL	Maximum Contamination Level
NE	Not Established
SW	Surface Water
TCE	Trichloroethene