SOIL CHARACTERIZATION INVESTIGATION

1st and Strand Streets
St. Helens, Oregon
DEQ ECSI No. 3283

For
Otak, Inc.
January 7, 2022

Project: StHelens-3-02

NV5

January 7, 2022

Otak, Inc.
808 SW Third Avenue, Suite 800
Portland, OR 97204

Attention: Keith Buisman

Soil Characterization Investigation
1st and Strand Streets
St. Helens, Oregon
DEQ ECSI No. 3283
Project: StHelens-3-02

NV5 is pleased to submit this report summarizing the results of a soil characterization investigation for the road and utility extensions for South 1st and Strand Streets in St. Helens, Oregon. We appreciate the opportunity to work with you on this project. Please contact us if you have questions regarding this report.

Sincerely,

NV5

Colby R. Hunt, C.H.M.M.
Principal

cc: Jeff Schatz, Oregon Department of Environmental Quality (via email only)

JKP:MFC:CRH:kt
Attachments
One copy submitted (via email only)
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ACRONYMS AND ABBREVIATIONS

ASTM	American Society for Testing and Materials
BGS	below ground surface
BS	blank spike
BSD	blank spike duplicate
CFSL	Clean Fill Screening Level
CMMP	Contaminated Media Management Plan
DEQ	Oregon Department of Environmental Quality
ECSI	Environmental Cleanup Site Information
EPA	U.S. Environmental Protection Agency
eV	electronvolt
I.D.	identification
IDW	investigation-derived waste
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MS	matrix spike
MSD	matrix spike duplicate
NA	not applicable
NE	not established
not detected	compound not detected at a concentration equal to or greater than the laboratory method reporting limit or reporting detection limit
PAH	polyaromatic hydrocarbon
PCB	polychlorinated biphenyl
PID	photoionization detector
PPA	Prospective Purchaser Agreement
ppmv	parts per million by volume
QC	quality control
RBC	risk-based concentration
RCRA	Resource Conservation and Recovery Act
ROW	right-of-way
RPD	relative percent difference
TCLP	toxicity characteristic leaching procedure
VOC	volatile organic compound

1.0 INTRODUCTION

This report summarizes the results of a soil characterization investigation of the 1st and Strand Streets project located south of the intersection of Cowlitz Street and Strand Street in St. Helens, Oregon. Planned improvements include extending South 1st Street from Cowlitz Street south to Plymouth Street. Strand Street will extend south and west from Columbia View Park to intersect with South 1st Street. Planned improvements also include installing new public water, sanitary sewer, and storm drain extensions and relocating an existing sanitary sewer lift station. The new ROWs will support future redevelopment of the former Boise Cascade Veneer Plant property (Veneer Plant), which was included on the DEQ ECSI database (ECSI File No. 3283) because of the presence of petroleum hydrocarbons and metals contamination in soil and groundwater. The locations of the proposed ROWs are shown on Figure 1.

2.0 BACKGROUND

The 1st and Strand Streets project is primarily located on the Veneer Plant. Between 1987 and 2014 multiple environmental investigations and remedial actions were conducted at the Veneer Plant. The investigations identified residual impacts located at the following locations, as shown on Figure 1:

- Former lathe pit area/former building: This area is impacted primarily with diesel- and oil-range hydrocarbons. Shallow contamination is present in a less than 500-square-foot area in the lathe pit area. Petroleum-impacted soil generally occurs at depths greater than 10 feet BGS over an area of approximately 3,000 square feet. Impacted soil is covered with a concrete cap in this area.
- TP-13/TP-13A: PAHs were detected in an isolated and localized area near test pits TP-13/TP-13A.
- Northern removal area: Lead was identified in this area at concentrations greater than DEQ RBCs. Bedrock was encountered at depths shallower than 5 feet BGS. Approximately 1,700 cubic yards of soil were excavated and disposed of off site. Residual lead-impacted soil is present along the northern sidewall, in the northwestern corner of the excavation, and in the north-central excavation floor.
- Groundwater in the former lathe pit area and barker area may contain benzo(a)pyrene at concentrations greater than DEQ RBCs.

DEQ issued a No Further Action determination for the Veneer Plant in June 2015 with the following conditions and restrictions:

- No consumption or other beneficial use of groundwater beneath the Veneer Plant
- Construction of an impermeable cap in the lathe pit area to prevent exposure to and leaching of contamination into shallow groundwater.
- Contaminated soil or groundwater removed from the Veneer Plant must be managed in accordance with a DEQ-approved CMMP.

Before purchasing the Veneer Plant, the City of St. Helens entered into a PPA with DEQ dated May 2, 2016. The PPA required that the City of St. Helens adhere to the conditions and restrictions outlined above. The Veneer Plant CMMP[1] requires that DEQ be notified before planned soil disturbance and soil characterization at the Veneer Plant.

3.0 SCOPE OF SERVICES

The purpose of the soil characterization investigation was to obtain soil chemical analytical data to evaluate end-use disposal options for soil that will be generated during construction activities. The soil characterization investigation was approved by DEQ in an email dated April 23, 2021. The specific scope of services is presented below:

- Prepared a site-specific Health and Safety Plan.
- Contacted Oregon's one-call Utility Notification Center to mark the location of public utilities beneath the project site.
- Subcontracted Applied Professional Services, Inc of Portland, Oregon, to clear the proposed boring locations of utility conflicts before drilling.
- Subcontracted Stratus Corporation of Gaston, Oregon, to advance 26 direct-push borings (DP-1 through DP-26) to depths of up to 15 feet BGS or probe refusal, whichever came first. The borings were spaced at approximately 95-foot intervals along the proposed future ROWs of South 1st Street, Strand Street, and Street A. The boring locations are shown on Figure 1.
- Collected continuous soil samples from each boring for field screening purposes. Field screened soil samples, including visual and olfactory indicators, water sheen testing, and headspace vapor concentration measurements using a hand-held PID with a 10.6-eV lamp.
- Collected a three-point composite soil sample from each boring interval, including one 3-point composite soil sample representative of soil between 0 and 5 feet BGS, one 3-point composite soil sample representative of soil between 5 and 10 feet BGS, and one 3-point composite soil sample representative of soil between 10 and 15 feet BGS. Sample collection was limited to one or two composite samples on several borings due to refusal and/or limited recovery.
- Submitted 58 three-point composite soil samples to Pace Analytical of Mount Juliet, Tennessee, for chemical analysis of the following: diesel- and oil-range hydrocarbons by Method NWTPH-Dx, PAHs by EPA Method 8270E-SIM, RCRA 8 total metals by EPA Method 6020B, and PCBs by EPA Method 8082A. Further analyzed composite soil samples DP-2(0-3), DP-15(5-7.5), and DP-19(5-8.5) for TCLP lead by EPA Methods 1331/6010D and/or TCLP mercury by EPA Methods 1311/7470A
- Containerized IDW, including soil cuttings and decontamination water and disposed of it off site.
- Decommissioned each boring by backfilling with bentonite chips.
- Summarized the results of the investigation in this report.

4.0 FIELD ACTIVITIES

Stratus Corporation of Gaston, Oregon, advanced 26 direct-push borings (DP-1 through DP-26) to depths of up to 15 feet BGS on July 21 and 22, 2021. The borings were spaced at approximately

[1] Maul Foster & Alongi, Inc., 2015. *Draft City of St. Helens Contaminated Medica Management Plan; 400 South 1st Street; St. Helens, Oregon; ECSI No. 3283,* dated April 29, 2015.

95-foot intervals along the proposed future ROWs of South 1st Street, Strand Street, and Street A as shown on Figure 1. The results of the field activities are summarized below. A detailed description of our field exploration program is presented in Appendix A.

4.1 SUBSURFACE CONDITIONS

In general, subsurface conditions encountered in the borings consist of alternating layers of silt, clay, gravel, and sand fill material to the maximum depth explored of 15 feet BGS. Refusal in apparent bedrock was encountered in borings DP-1 through DP-18 and DP-20 at depths between 4 and 12 feet BGS. The depth to bedrock appeared to increase from north to south, and refusal was not encountered in borings DP-19 and DP-21 through DP-25. However, refusal was encountered in the southern-most boring (DP-26) at a depth of 14 feet BGS.

Sawdust and/or wood debris was encountered in 13 of the 26 borings (DP-2, DP-5, DP-6, DP-8, DP-9, DP-12 through DP-14, DP-17, DP-18, and DP-23 through DP-25). The depth to the sawdust/wood debris ranged from 1.5 to 12.5 feet BGS. The sawdust/wood debris appeared to be a relatively discontinuous layer and ranged in thickness from 0.3 foot to 3.5 feet thick.

Groundwater was not encountered in the explorations to the maximum depth explored of 15 feet BGS. The exploration logs are presented in Appendix A.

4.2 SOIL SAMPLING

An NV5 representative observed the drilling activities and collected continuous soil samples from the borings for field screening purposes and potential chemical analysis. NV5 attempted to collect one 3-point composite soil sample from 5-foot depth intervals in each boring, including one 3-point composite soil sample representative of soil between 0 and 5 feet BGS, one 3-point composite soil sample representative of soil between 5 and 10 feet BGS unless refusal was encountered at shallower depths, and one 3-point composite soil sample representative of soil between 10 and 15 feet BGS unless refusal was encountered at shallower depths.

Field screening included visual and olfactory observation, water sheen screening, and headspace vapor screening using a hand-held PID. Slight petroleum-like sheens were observed in soil samples collected at depths of between 1 foot and 11 feet BGS from borings DP-2, DP-8 through DP-11, DP-16, DP-17, DP-19, and DP-20. Moderate petroleum-like sheens and petroleum-like odors were observed in soil samples collected at depths of between 1 foot and 5 feet BGS from borings DP-10, DP-12, DP-15, and DP-21. Field screening results are shown on the exploration logs presented in Appendix A.

Fifty-eight composite soil samples were submitted for chemical analysis, as shown in Tables 1 through 4. Soil samples were placed immediately in an ice chest and kept cool with wet ice until delivery to the laboratory. Standard chain-of-custody procedures were observed during transport of the samples to the laboratory.

5.0 REGULATORY SCREENING LEVELS

A formal conceptual site model has not been developed for the 1st and Strand Streets site. Based on future use as roadways, soil sample analytical results were compared to DEQ construction and excavation worker RBCs.

To characterize soil for management/disposal purposes, soil sample chemical analytical results were also compared to DEQ CFSLs. Soil that does not appear stained, does not have a chemical- or petroleum-like odor, and does not contain contaminants at concentrations greater than DEQ CFSLs can be managed as clean fill. DEQ CFSLs are based on DEQ-established geographical areas. The 1st and Strand Streets project is located near the boundary of the Portland Basin and Coast Range geographic boundaries, and representatives of DEQ were unable to determine in which geographical location the project is located. For the purpose of this report, analytical results were compared to the CFSLs for the Portland Basin.

For soil that does not chemically qualify as clean fill, DEQ typically compares soil sample chemical analytical results to DEQ occupational RBCs. If contaminants are present at concentrations greater than DEQ occupational RBCs, DEQ typically will not approve re-use of the soil.

6.0 CHEMICAL ANALYTICAL RESULTS

The 58 composite soil samples collected during this investigation were submitted to Pace Analytical of Mount Juliet, Tennessee, for chemical analysis of the following:

- Diesel- and oil-range hydrocarbons by Method NWTPH-Dx
- PAHs by EPA Method 8270E-SIM
- RCRA 8 total metals by EPA Method 6020B
- PCBs by EPA Method 8082A

The chemical analytical results for the 58 composite soil samples are presented on Tables 1 through 4 and are summarized below.

Diesel-range hydrocarbons were detected in 51 of the 58 composite soil samples analyzed. Except for soil sample DP-15(5-7.5), the detected concentrations were less than applicable DEQ RBCs and DEQ CFSLs. Diesel-range hydrocarbons were detected in soil sample DP-15(5-7.5) at a concentration of 8,600 mg/kg, which is greater than the corresponding DEQ construction worker RBC and DEQ CFSL. The detected concentration of diesel-range hydrocarbons in soil sample DP-15(5-7.5) was less than the corresponding DEQ occupational and excavation worker RBCs. Oil-range hydrocarbons were detected in 50 of the 58 soil samples analyzed. DEQ has not established RBCs or CFSLs for oil-range hydrocarbons.

One or more PAHs were detected in 44 of the 58 composite soil samples analyzed. PAHs were not detected at concentrations greater than applicable DEQ RBCs. Benzo(a)pyrene and/or naphthalene was detected at concentrations greater than the corresponding DEQ CFSL in soil samples DP-3(0-3), DP-6(0-3.5), DP-7(5-7), DP-12(0-3), DP-15(5-7), and DP-19(5-8.5).

Aroclor 1254 was detected in soil sample DP-13(0-2.5) at an estimated concentration of 0.0154 mg/kg. With this exception, PCBs were not detected in the soil samples analyzed. The estimated concentration of Aroclor 1254 was less than applicable DEQ RBCs and CFSLs.

One or more RCRA 8 metals were detected in each of the 58 composite soil samples analyzed. RCRA 8 total metals, including lead, mercury, selenium, silver, barium, and cadmium, were detected at

concentrations exceeding DEQ CFSLs in 20 of the 58 soil samples analyzed. Except for mercury, RCRA 8 metals were not detected at concentrations greater than applicable DEQ RBCs. The detected concentration of mercury in soil sample DP-15(5-7.5) of 137 mg/kg was greater than the corresponding DEQ construction worker RBC, but less than the corresponding DEQ occupational and excavation worker RBCs.

Lead and/or mercury were detected at concentrations greater than the EPA theoretical limit for disposal at a RCRA Subtitle D landfill in three of the soil samples analyzed [DP-2(0-3), DP-15(5-7.5), and DP-19(5-8.5)]. Therefore, these three soil samples were further analyzed for TCLP lead by EPA Methods 1311/6010D and/or TCLP mercury by EPA Methods 1311/7470A. TCLP lead and/or mercury were not detected at concentrations greater than EPA's Subtitle D landfill disposal limits, indicating the soil is suitable for disposal as non-hazardous waste at a RCRA Subtitle D landfill.

7.0 CONCLUSIONS AND RECOMMENDATIONS

NV5 conducted a soil characterization investigation of the 1st and Strand Streets project located in St. Helens, Oregon. Based on the results of this investigation, soil beneath most of the future ROWs does not qualify as clean fill and will require disposal at a RCRA Subtitle D landfill or other DEQ-approved facility. The results of this investigation indicate that soil beneath the future ROWs is suitable for disposal as non-hazardous waste at a RCRA Subtitle D landfill or other DEQ-approved facility. In addition, because contamination was not detected at concentrations greater than DEQ occupational RBCs in the soil samples collected during this investigation, it may be possible to obtain permission from DEQ to re-use soil generated during forthcoming construction, either on site or at another site that is permitted to accept soil that is not clean fill. On-site re-use will likely require capping of this soil with buildings, hardscapes, or at least 3 feet of clean fill.

In addition, contaminants were not detected at concentrations greater than DEQ CFSLs in soil samples collected from borings DP-21 through DP-26, located on the southern-most portion of the future South 1st Street ROW. DEQ may approve re-use of soil from this portion of the South 1st Street ROW as clean fill. DEQ will likely require additional sampling prior to approving re-use of soil from this portion of the South 1st Street ROW as clean fill.

8.0 LIMITATIONS

This report has been prepared for Otak, Inc. and DEQ. This report is not intended for use by others, and the information contained herein is not applicable to other sites. Reliance by other parties must be approved by NV5 in accordance with our standard contractual process for third-party reliance. Our interpretations of subsurface conditions are based on data from select soil samples collected from this limited area. The results of the analyses only indicate the presence or absence of those chemical constituents analyzed in those discrete sample locations at the time of the investigation. It is always possible that contamination could exist between the widely spaced exploration locations. Analytical data from the laboratory samples should only be considered as indicators of project site conditions and not a guarantee of the absence of subsurface impact in areas not sampled.

The conclusions presented in this report are based on our observations made during field investigations and chemical analytical data. The findings of this investigation should be considered as a professional opinion based on our evaluation of select and limited data.

Our services have been executed in accordance with the generally accepted practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

♦ ♦ ♦

We appreciate the opportunity to be of service. Please call if you have questions regarding this report.

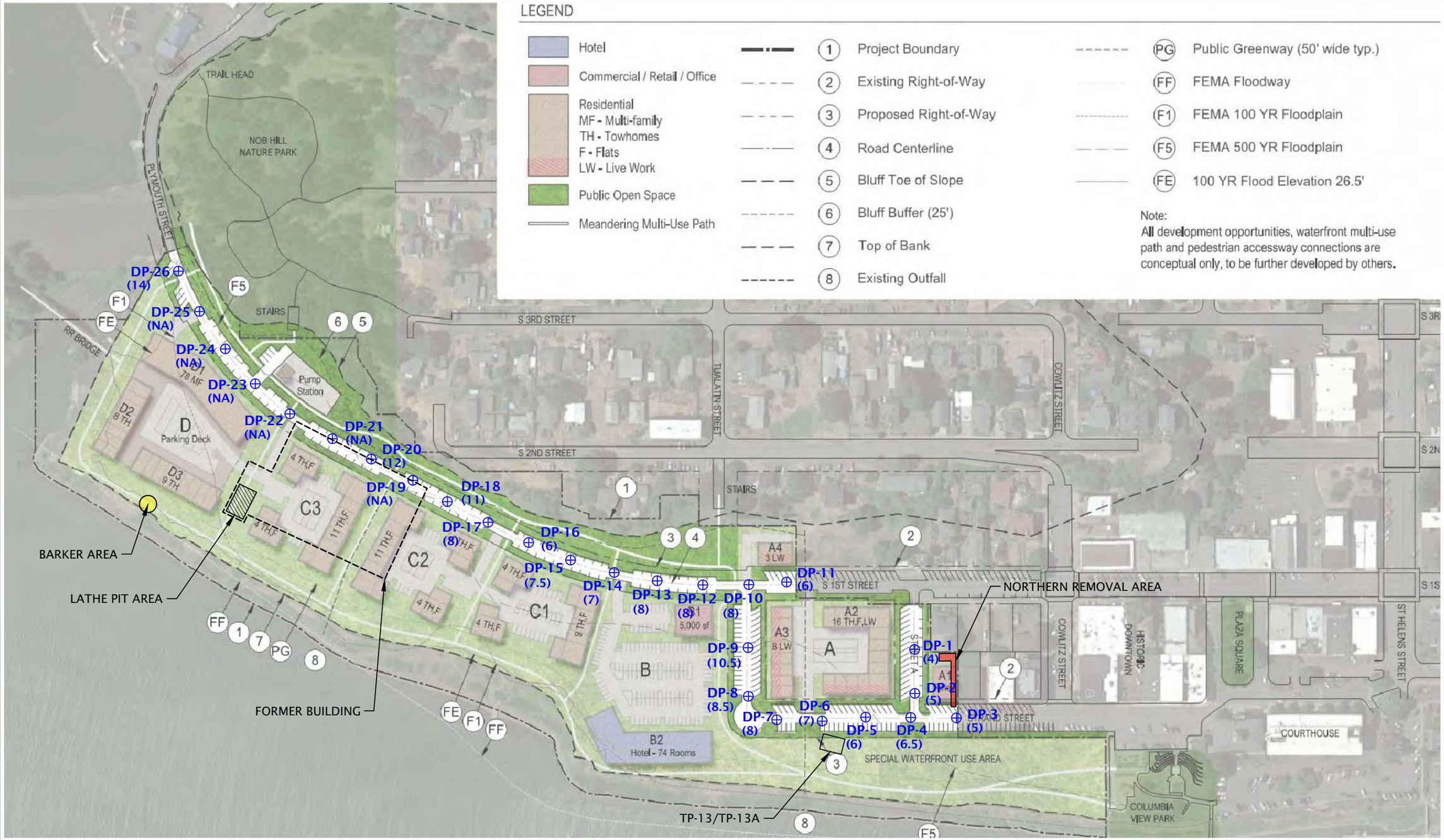
Sincerely,

NV5

Mike F. Coenen, P.E.
Principal Engineer

Colby R. Hunt, C.H.M.M.
Principal

FIGURES



LEGEND:

DP-1 ⊕ BORING LOCATION

(4) REFUSAL DEPTH (FEET BGS)

SITE PLAN BASED ON SHEET TITLED S. 1ST AND STRAND STREETS | WEST ALIGNMENT, DATED JUNE 9, 2021 CREATED BY OTAK.

N

0 200 400

(SCALE IN FEET)

SITE PLAN

1ST AND STRAND STREETS
ST. HELENS, OR

FIGURE 1

STHELENS-3-02

JANUARY 2022

NIV5

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File Name: J:\S-Z\StHelens\StHelens-3\StHelens-3-02\Figures\CAD\StHelens-3-02-SP02.dwg | Layout: FIGURE 1

TABLES

TABLE 1
Summary of Soil Sample Chemical Analytical Results
Petroleum Hydrocarbons
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	Diesel- and Oil-Range Hydrocarbons Method NWTPH-Dx (mg/kg)			
		Diesel-Range		Oil-Range	
DP-1(0-2.5)	07/22/21	5.46		28.3	
DP-2(0-3)	07/22/21	51.4		43.8	
DP-3(0-3)	07/22/21	84.8	J	1,740	
DP-4(0-3)	07/22/21	8.47		33.2	
DP-4(5-6)	07/22/21	34.6		148	
DP-5(0-3)	07/22/21	13.7		84.9	
DP-5(5-6)	07/22/21	11.4		14.6	
DP-6(0-3.5)	07/22/21	121		1,300	
DP-6(5-7)	07/22/21	34.5		113	
DP-7(0-3)	07/22/21	4.62		15.3	
DP-7(5-7)	07/22/21	30.0		153	
DP-8(0-3.5)	07/22/21	3.34	J	19.3	
DP-8(5-8)	07/22/21	2.27	J	15.8	U
DP-9(0-4)	07/22/21	12.2		48.3	
DP-9(5-7.5)	07/22/21	2.34	J	7.87	J
DP-10(0-4)	07/21/21	66.5		550	
DP-10(5-8)	07/21/21	3.95	J	6.48	J
DP-11(0-3.5)	07/21/21	141		1,430	
DP-11(5-6)	07/21/21	16.6	J	262	
DP-12(0-3)	07/21/21	230		1,270	
DP-12(5-7.5)	07/21/21	142		828	
DP-13(0-2.5)	07/21/21	124		1,540	
DP-13(5-8)	07/21/21	25.6		127	
DP-14(0-3)	07/21/21	4.59	J	55.1	
DP-14(5-7)	07/21/21	189		816	
DP-15(0-4)	07/21/21	8.30	J3	33.9	
DP-15(5-7.5)	07/21/21	8,600		16,100	
DP-16(0-4)	07/21/21	11.8		76.8	
DP-16(5-6)	07/21/21	10.5		69.3	
DP-17(0-4)	07/21/21	18.4		122	
DP-17(5-8)	07/21/21	24.5		121	
DP-18(0-3)	07/21/21	800	J	6,060	

TABLE 1
Summary of Soil Sample Chemical Analytical Results
Petroleum Hydrocarbons
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	Diesel- and Oil-Range Hydrocarbons Method NWTPH-Dx (mg/kg)			
		Diesel-Range		Oil-Range	
DP-18(5-8)	07/21/21	**39.0**		**225**	
DP-18(10-11)	07/21/21	**3.78**	J	**4.49**	J
DP-19(0-4)	07/21/21	**25.0**		**132**	
DP-19(5-8.5)	07/21/21	**41.1**		**218**	
DP-19(10-13.5)	07/21/21	5.65	U	14.1	U
DP-20(0-2.5)	07/21/21	**178**		**1,480**	
DP-20(5-7.5)	07/21/21	**19.2**		**96.4**	
DP-20(10-11)	07/21/21	**111**	J	**918**	
DP-21(0-4)	07/21/21	**2.93**	J	**9.75**	J
DP-21(5-7.5)	07/21/21	4.23	U	10.6	U
DP-21(10-12.5)	07/21/21	**16.5**	J3,J6	**155**	
DP-22(0-4)	07/21/21	**1.51**	J	**5.20**	J
DP-22(5-8.5)	07/21/21	4.33	U	10.8	U
DP-22(10-14)	07/21/21	**2.58**	J	**13.8**	J
DP-23(0-4)	07/21/21	**2.18**	J	**11.4**	
DP-23(5-9)	07/21/21	4.36	U	10.9	U
DP-23(10-13.5)	07/21/21	4.16	U	10.4	U
DP-24(0-4)	07/21/21	4.11	U	10.3	U
DP-24(5-9)	07/21/21	4.15	U	10.4	U
DP-24(10-13)	07/21/21	**2.39**	J	**14.4**	
DP-25(0-2.5)	07/21/21	**4.01**	J	**15.0**	
DP-25(5-8)	07/21/21	**1.95**	J	**8.42**	J
DP-25(10-11.5)	07/21/21	**20.2**		**170**	
DP-26(0-3)	07/21/21	**4.88**		**17.6**	
DP-26(5-7.5)	07/21/21	**5.89**		**40.7**	
DP-26(10-12)	07/21/21	**21.0**		**113**	
DEQ Generic RBCs[1]					
Soil Ingestion, Dermal Contact, and Inhalation					
Occupational		14,000		NE	
Construction Worker		4,600		NE	
Excavation Worker		>Max		NE	
DEQ CFSLs[2]		1,100		NE	

TABLE 1
Summary of Soil Sample Chemical Analytical Results
Petroleum Hydrocarbons
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	Diesel- and Oil-Range Hydrocarbons Method NWTPH-Dx (mg/kg)	
		Diesel-Range	Oil-Range

Notes:
1. DEQ Generic RBCs dated May 2018
2. DEQ CFSLs dated February 21, 2019

J: The identification of the analyte is acceptable; the reported value is an estimate.
J3: The associated batch QC was outside the established quality control range for precision.
J6: The sample matrix interfered with the ability to make any accurate determination; spike value is low.
>Max: The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario.
U: Not detected. Reporting or detection limit shown.
Bolding indicates analyte detection.
Shading indicates analyte detection at a concentration greater than DEQ RBCs and/or CFSLs.

TABLE 2
Summary of Soil Sample Chemical Analytical Results
PAHs
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	PAHs EPA Method 8270E-SIM (mg/kg)																		
		Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Chloronaphthalene
DP-1(0-2.5)	07/22/21	0.00244 U	0.00221 U	**0.00301** J	**0.00377** J	**0.00704**	**0.00939**	**0.0126**	**0.00277** J	**0.00518** J	0.00182 U	**0.00895**	0.00217 U	**0.00872**	0.00432 U	**0.00521** J	**0.0121**	0.00475 U	0.00452 U	0.00493 U
DP-2(0-3)	07/22/21	0.00299 U	0.00272 U	**0.00733** J	**0.00834**	**0.0103**	**0.0111**	**0.012**	**0.00405** J	**0.0076** J	0.00224 U	**0.0195**	0.00267 U	**0.00972**	**0.0359**	**0.0186**	**0.0222**	0.00584 U	**0.00725** J	0.00606 U
DP-3(0-3)	07/22/21	**0.0353**	**0.00803**	**0.137**	**0.0945**	**0.148**	**0.181**	**0.184** J6	**0.0301**	**0.167**	**0.0643**	**0.3** J6	**0.0505**	**0.0676**	**0.0999**	**0.246**	**0.383** J6	**0.0247** J	**0.0296**	0.00607 U
DP-4(0-3)	07/22/21	0.00256 U	0.00233 U	0.00241 U	0.00193 U	0.00199 U	0.0017 U	**0.00321** J	0.00239 U	0.00258 U	0.00192 U	0.00253 U	0.00228 U	0.00202 U	0.00454 U	0.00257 U	0.00223 U	0.005 U	0.00475 U	0.00519 U
DP-4(5-6)	07/22/21	**0.0121**	**0.0149**	**0.0162**	**0.0241**	**0.014**	**0.0221**	**0.0178**	**0.00787**	**0.0218**	**0.0021** J	**0.0918**	**0.011**	**0.0103**	**0.0608**	**0.0536**	**0.0877**	**0.00871** J	**0.0209** J	0.00559 U
DP-5(0-3)	07/22/21	0.00254 U	0.00231 U	0.00239 U	**0.00342** J	**0.00321** J	**0.00586** J	**0.00389** J	0.00238 U	**0.00395** J	0.0019 U	**0.0119**	0.00227 U	**0.00241** J	**0.00911** J	**0.00871**	**0.0119**	0.00497 U	0.00472 U	0.00515 U
DP-5(5-6)	07/22/21	0.00297 U	0.054 U	0.0558 U	0.00223 U	0.00231 U	0.00198 U	0.00229 U	0.00278 U	0.003 U	0.00222 U	0.00293 U	0.0529 U	0.00234 U	**0.00984** J	**0.0191**	0.00258 U	0.0058 U	0.00551 U	0.12 U
DP-6(0-3.5)	07/22/21	**0.114**	**0.0237**	**0.0204**	**0.191**	**0.224**	**0.261**	**0.161**	**0.0886**	**0.26**	**0.0287**	**0.464**	**0.0179**	**0.159**	**0.00762** J	**0.199**	**0.451**	0.00514 U	**0.0083** J	0.00533 U
DP-6(5-7)	07/22/21	0.003 U	0.00272 U	0.00281 U	0.00225 U	0.00233 U	0.00199 U	0.00231 U	0.0028 U	0.00302 U	0.00224 U	0.00296 U	0.00267 U	0.00236 U	0.00531 U	0.00301 U	0.0026 U	0.00585 U	0.00556 U	0.00607 U
DP-7(0-3)	07/22/21	0.00245 U	**0.00262** J	**0.00346** J	**0.00607** J	**0.00507** J	**0.00584** J	**0.0039** J	0.00229 U	**0.00587** J	0.00183 U	**0.0122**	**0.00232** J	**0.00399** J	**0.0296**	**0.0117**	**0.0132**	0.00478 U	**0.0108** J	0.00496 U
DP-7(5-7)	07/22/21	**0.0704**	0.00293 U	**0.0587**	**0.644**	**0.540**	**0.509**	**0.192**	**0.184**	**0.615**	**0.0665**	**0.71**	**0.0131**	**0.26**	**0.0706**	**0.14**	**0.909**	**0.0105** J	**0.0246** J	0.00654 U
DP-8(0-3.5)	07/22/21	0.0024 U	0.00218 U	0.00226 U	**0.0147**	**0.0078**	**0.0292**	**0.00547** J	**0.0101**	**0.0196**	0.0018 U	**0.0221**	0.00214 U	**0.00718**	0.00426 U	**0.00438** J	**0.027**	0.00469 U	0.00446 U	0.00487 U
DP-8(5-8)	07/22/21	0.00363 U	0.00329 U	0.0034 U	0.00273 U	0.00282 U	0.00241 U	0.00279 U	0.00339 U	**0.00567** J	0.00271 U	**0.00361** J	0.00323 U	0.00285 U	0.00643 U	0.00364 U	**0.00397** J	0.00708 U	0.00673 U	0.00734 U
DP-9(0-4)	07/22/21	0.00241 U	0.00219 U	0.00226 U	**0.00275** J	**0.00241** J	**0.0042** J	**0.00338** J	0.00225 U	**0.00244** J	0.0018 U	**0.00551** J	0.00215 U	**0.00244** J	0.00427 U	**0.00364** J	**0.005** J	0.0047 U	0.00447 U	0.00488 U
DP-9(5-7.5)	07/22/21	0.00358 U	0.00326 U	0.00336 U	0.00269 U	0.00279 U	0.00238 U	0.00276 U	0.00335 U	0.00361 U	0.00268 U	0.00354 U	0.00319 U	0.00282 U	0.00636 U	0.0036 U	0.00312 U	0.00699 U	0.00665 U	0.00726 U
DP-10(0-4)	07/21/21	**0.051**	**0.0234**	**0.0288**	**0.0186**	**0.0163**	**0.0206**	**0.0631**	**0.00581** J	**0.0152**	**0.00898**	**0.0678**	**0.0302**	**0.0249**	**0.0498**	**0.065**	**0.0594**	**0.0569**	**0.0895**	0.0052 U
DP-10(5-8)	07/21/21	**0.0061** J	**0.0368**	0.0036 U	**0.0031** J	0.00298 U	0.00255 U	0.00295 U	0.00358 U	0.00387 U	0.00287 U	**0.0192**	**0.0218**	0.00302 U	**0.0187** J	**0.046**	**0.0127**	**0.0312** J	0.00712 U	0.00777 U
DP-11(0-3.5)	07/21/21	**0.00444** J	0.0022 U	**0.0109**	**0.00931**	**0.0173**	**0.0194**	**0.0384**	**0.00527** J	**0.0129**	**0.00475** J	**0.0235**	**0.00281** J	**0.0152**	**0.0235**	**0.0255**	**0.0285**	**0.00703** J	**0.015** J	0.00491 U
DP-11(5-6)	07/21/21	0.00261 U	**0.00691**	0.00245 U	**0.00311** J	**0.00916**	**0.00915**	**0.0176**	0.00244 U	**0.00383** J	**0.0066** J	**0.00555** J	0.00233 U	**0.00532** J	0.00463 U	**0.00494** J	**0.00713**	0.0051 U	0.00485 U	0.00529 U
DP-12(0-3)	07/21/21	**0.0121**	**0.0988**	**0.0165**	**0.0256**	**0.0272**	**0.0259**	**0.0193**	**0.00554** J	**0.0318**	**0.00385** J	**0.0929**	**0.0418**	**0.0122**	**0.160**	**0.141**	**0.113**	**0.0611**	**0.152**	0.00505 U
DP-12(5-7.5)	07/21/21	0.00386 U	**0.0311**	0.00363 U	0.0029 U	0.003 U	0.00257 U	0.00297 U	0.00361 U	0.00389 U	0.00289 U	**0.00522** J	0.00344 U	0.00304 U	**0.019** J	**0.0117**	**0.0052** J	0.00754 U	0.00717 U	0.00782 U
DP-13(0-2.5)	07/21/21	**0.00931**	**0.00337** J	**0.0233**	**0.0235**	**0.0582**	**0.0397**	**0.0465**	**0.00466** J	**0.0406**	**0.013**	**0.0527**	**0.014**	**0.0321**	**0.0197** J	**0.0711**	**0.101**	**0.0125** J	**0.0153** J	0.00496 U
DP-13(5-8)	07/21/21	0.00431 U	0.00391 U	0.00404 U	0.00324 U	0.00335 U	0.00286 U	0.00331 U	0.00402 U	0.00434 U	0.00322 U	**0.0085** J	0.00384 U	0.00339 U	**0.0666**	**0.0175**	**0.00841** J	**0.056**	**0.118**	0.00872 U
DP-14(0-3)	07/21/21	0.00248 U	0.00226 U	0.00233 U	0.00187 U	0.00193 U	0.00165 U	**0.00465** J	0.00232 U	0.0025 U	0.00186 U	0.00245 U	0.00221 U	0.00195 U	0.0044 U	0.00249 U	0.00216 U	0.00484 U	0.00461 U	0.00503 U
DP-14(5-7)	07/21/21	0.00617 U	**0.0392**	0.0058 U	0.00464 U	0.0048 U	0.00411 U	0.00475 U	0.00577 U	0.00623 U	0.00462 U	**0.00987** J	**0.0144** J	**0.00521** J	**0.016** J	**0.014** J	**0.0133** J	0.012 U	0.0115 U	0.0125 U
DP-15(0-4)	07/21/21	0.00255 U	0.00232 U	0.00239 U	0.00192 U	0.00198 U	0.0017 U	0.00196 U	0.00238 U	0.00257 U	0.00191 U	0.00252 U	0.00227 U	0.00201 U	0.00452 U	0.00256 U	0.00222 U	0.00498 U	0.00473 U	0.00517 U
DP-15(5-7.5)	07/21/21	**0.108**	**0.160**	**0.162**	**0.0416**	**0.118**	**0.073**	**0.034**	**0.0209**	**0.0335**	0.00436 U	**0.34**	**0.148**	**0.0276**	**0.809** J	**0.583**	**0.284**	0.228 U	0.217 U	0.0118 U
DP-16(0-4)	07/21/21	0.00255 U	0.00232 U	0.0024 U	**0.00245** J	**0.00257** J	**0.00423** J	**0.00379** J	0.00238 U	**0.00278** J	0.00191 U	**0.00485** J	0.00227 U	**0.00271** J	0.00453 U	**0.00323** J	**0.00553** J	0.00498 U	0.00474 U	0.00517 U
DP-16(5-6)	07/21/21	0.00326 U	0.00296 U	0.00306 U	0.00245 U	0.00254 U	0.00217 U	0.00251 U	0.00305 U	0.00329 U	0.00244 U	0.00322 U	0.00291 U	0.00257 U	**0.00953** J	0.00327 U	**0.00299** J	0.00636 U	0.00605 U	0.00661 U
DP-17(0-4)	07/21/21	0.00255 U	0.00232 U	0.00239 U	**0.00628** J	**0.00946**	**0.0113**	**0.00863**	**0.00284** J	**0.0101**	**0.00249** J	**0.00906**	0.00227 U	**0.00885**	0.00452 U	**0.00737**	**0.0142**	0.00497 U	0.00473 U	0.00516 U
DP-17(5-8)	07/21/21	0.00368 U	0.00335 U	**0.00594** J	**0.00301** J	**0.00332** J	**0.00498** J	**0.00775** J	0.00344 U	0.00372 U	0.00275 U	**0.0116**	0.00328 U	**0.00589** J	**0.0452**	**0.0213**	**0.0087** J	0.00719 U	**0.0083** J	0.00746 U
DP-18(0-3)	07/21/21	0.00237 U	0.00216 U	0.00223 U	**0.0229**	**0.0928**	**0.0418**	**0.0449**	0.00222 U	0.00239 U	**0.0191**	**0.0109**	**0.006** J	**0.0341**	0.00421 U	**0.0348**	**0.0472**	0.00463 U	0.0044 U	0.00481 U
DP-18(5-8)	07/21/21	0.00586 U	0.00533 U	0.00551 U	0.00441 U	0.00456 U	0.0039 U	0.00451 U	0.00548 U	0.00591 U	0.00438 U	0.00579 U	0.00523 U	0.00461 U	0.0104 U	**0.00645** J	**0.00632** J	0.0114 U	0.0109 U	0.0119 U
DP-18(10-11)	07/21/21	0.00275 U	0.0025 U	0.00258 U	0.00207 U	0.00214 U	0.00183 U	0.00212 U	0.00257 U	0.00278 U	0.00206 U	0.00272 U	0.00245 U	0.00217 U	0.00488 U	0.00276 U	0.00239 U	0.00537 U	0.00511 U	0.00558 U
DP-19(0-4)	07/21/21	0.00245 U	0.00223 U	**0.00285** J	**0.00867**	**0.0105**	**0.0117**	**0.0115**	**0.00353** J	**0.0103**	**0.00239** J	**0.019**	0.00219 U	**0.00805**	**0.00675** J	**0.0101**	**0.0246**	0.00479 U	0.00455 U	0.00497 U
DP-19(5-8.5)	07/21/21	**0.0175**	**0.0345**	**0.0243**	**0.0451**	**0.0519**	**0.0896**	**0.0516**	**0.0322**	**0.0726**	**0.00827** J	**0.133**	**0.0295**	**0.0449**	**0.262**	**0.136**	**0.119**	**0.0306** J	**0.0594**	0.0074 U
DP-19(10-13.5)	07/21/21	0.00325 U	0.00295 U	0.00305 U	0.00245 U	0.00253 U	0.00216 U	0.0025 U	0.00304 U	0.00328 U	0.00243 U	0.00321 U	0.0029 U	0.00256 U	0.00577 U	0.00327 U	0.00283 U	0.00635 U	0.00604 U	0.00659 U
DP-20(0-2.5)	07/21/21	0.00242 U	**0.00473** J	0.00227 U	**0.0108**	**0.0379**	**0.0296**	**0.0395**	**0.00263** J	**0.0269**	**0.0146**	**0.00806**	**0.00971**	**0.0179**	0.00429 U	**0.053**	**0.0414**	**0.0156** J	**0.0127** J	0.0049 U
DP-20(5-7.5)	07/21/21	0.00336 U	0.00306 U	**0.00317** J	**0.00678** J	**0.00645** J	**0.00768** J	**0.00548** J	0.00314 U	**0.00694** J	0.00251 U	**0.0148**	0.003 U	**0.00449** J	**0.0164** J	**0.0175**	**0.0162**	0.00656 U	0.00624 U	0.00681 U
DP-20(10-11)	07/21/21	0.00337 U	0.00307 U	0.00317 U	**0.00269** J	0.00263 U	**0.00371** J	**0.00264** J	0.00315 U	0.0034 U	0.00252 U	**0.0142**	0.00301 U	0.00266 U	**0.0188** J	**0.0143**	**0.0108**	0.00659 U	0.00627 U	0.00684 U
DP-21(0-4)	07/21/21	0.00259 U	0.00235 U	0.00243 U	0.00194 U	0.00201 U	0.00172 U	0.00199 U	0.00242 U	0.00261 U	0.00193 U	0.00255 U	0.0023 U	0.00203 U	0.00459 U	0.0026 U	0.00225 U	0.00505 U	0.0048 U	0.00524 U
DP-21(5-7.5)	07/21/21	0.00243 U	0.00221 U	0.00228 U	0.00183 U	0.00189 U	0.00162 U	0.00187 U	0.00227 U	0.00245 U	0.00182 U	0.0024 U	0.00217 U	0.00191 U	0.00432 U	0.00244 U	0.00212 U	0.00475 U	0.00452 U	0.00493 U
DP-21(10-12.5)	07/21/21	0.0033 U	0.003 U	0.0031 U	0.00248 U	0.00257 U	0.0022 U	0.00254 U	0.00309 U	0.00333 U	0.00247 U	**0.00767** J	0.00294 U	0.0026 U	0.00586 U	**0.00419** J	**0.00686** J	0.00645 U	0.00613 U	0.00669 U
DP-22(0-4)	07/21/21	0.00244 U	0.00221 U	0.00229 U	0.00183 U	0.0019 U	0.00162 U	0.00187 U	0.00228 U	0.00246 U	0.00182 U	0.0024 U	0.00217 U	0.00192 U	0.00432 U	0.00245 U	0.00212 U	0.00476 U	0.00452 U	0.00494 U
DP-22(5-8.5)	07/21/21	0.00249 U	0.00226 U	0.00234 U	0.00187 U	0.00194 U	0.00166 U	0.00192 U	0.00233 U	0.00251 U	0.00186 U	0.00246 U	0.00222 U	0.00196 U	0.00442 U	0.0025 U	0.00216 U	0.00486 U	0.00462 U	0.00504 U
DP-22(10-14)	07/21/21	**0.0131**	0.00348 U	**0.0062** J	**0.0286**	**0.0259**	**0.0274**	**0.0145**	**0.0118**	**0.0281**	**0.00316** J	**0.0577**	**0.00521** J	**0.0154**	**0.0276** J	**0.0314**	**0.064**	0.00747 U	0.0071 U	0.00775 U
DP-23(0-4)	07/21/21	0.00236 U	0.00215 U	0.00222 U	0.00178 U	0.00184 U	0.00157 U	0.00182 U	0.00221 U	0.00238 U	0.00177 U	0.00233 U	0.0021 U	0.00186 U	0.00419 U	0.00237 U	0.00205 U	0.00461 U	0.00438 U	0.00478 U
DP-23(5-9)	07/21/21	0.00251 U	0.00228 U	0.00236 U	0.00189 U	0.00195 U	0.00167 U	0.00193 U	0.00234 U	0.00253 U	0.00188 U	0.00247 U	0.00224 U	0.00197 U	0.00445 U	0.00252 U	0.00218 U	0.0049 U	0.00466 U	0.00508 U
DP-23(10-13.5)	07/21/21	0.00239 U	0.00217 U	0.00225 U	0.0018 U	0.00186 U	0.00159 U	0.00184 U	0.00224 U	0.00241 U	0.00179 U	0.00236 U	0.00213 U	0.00188 U	0.00424 U	0.0024 U	0.00208 U	0.00467 U	0.00444 U	0.00485 U
DP-24(0-4)	07/21/21	0.00236 U	0.00215 U	0.00222 U	**0.00585** J	**0.00209** J	**0.00619**	0.00182 U	0.00221 U	**0.00251** J	0.00177 U	**0.016**	0.00211 U	0.00186 U	0.00419 U	**0.00456** J	**0.0172**	0.00461 U	0.00439 U	0.00479 U
DP-24(5-9)	07/21/21	0.00238 U	0.00217 U	0.00224 U	0.00179 U	0.00186 U	0.00159 U	0.00183 U	0.00223 U	0.0024 U	0.00178 U	0.00235 U	0.00212 U	0.00188 U	0.00423 U	0.00239 U	0.00207 U	0.00465 U	0.00443 U	0.00483 U
DP-24(10-13)	07/21/21	0.00245 U	0.00223 U	0.0023 U	0.00184 U	0.00191 U	**0.00216** J	0.00189 U	0.00229 U	0.00247 U	0.00183 U	**0.00307** J	0.00218 U	0.00193 U	0.00435 U	0.00246 U	**0.00347** J	0.00478 U	0.00455 U	0.00496 U

TABLE 2
Summary of Soil Sample Chemical Analytical Results
PAHs
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	PAHs EPA Method 8270E-SIM (mg/kg)																		
		Anthracene	Acenaphthene	Acenaphthylene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	2-Chloronaphthalene
DP-25(0-2.5)	07/21/21	0.00237 U	0.00215 U	0.00222 U	0.00178 U	0.00184 U	**0.00225** J	0.00182 U	0.00221 U	0.00239 U	0.00177 U	**0.00313** J	0.00211 U	0.00186 U	0.0042 U	**0.00305** J	**0.00315** J	0.00462 U	0.0044 U	0.0048 U
DP-25(5-8)	07/21/21	0.00238 U	0.00216 U	0.00223 U	0.00179 U	0.00185 U	0.00158 U	0.00183 U	0.00222 U	0.0024 U	0.00178 U	0.00235 U	0.00212 U	0.00187 U	0.00422 U	0.00239 U	0.00207 U	0.00464 U	0.00441 U	0.00482 U
DP-25(10-11.5)	07/21/21	0.00264 U	0.0024 U	0.00248 U	0.00198 U	**0.00545** J	**0.00671** J	**0.0068** J	0.00247 U	**0.00499** J	0.00197 U	**0.0064** J	0.00235 U	**0.0054** J	**0.0116** J	**0.00923**	**0.00692**	0.00515 U	0.0049 U	0.00534 U
DP-26(0-3)	07/21/21	**0.00404** J	0.00224 U	**0.00419** J	**0.00873**	**0.00925**	**0.052**	**0.0106**	**0.0157**	**0.0214**	**0.00235** J	**0.0305**	0.0022 U	**0.0135**	0.00438 U	**0.00482** J	**0.0367**	0.00482 U	0.00458 U	0.005 U
DP-26(5-7.5)	07/21/21	0.00275 U	0.0025 U	0.00258 U	0.00207 U	0.00214 U	0.00183 U	0.00211 U	0.00257 U	0.00277 U	0.00205 U	0.00271 U	0.00245 U	0.00216 U	0.00487 U	**0.00294** J	0.00239 U	0.00536 U	0.0051 U	0.00556 U
DP-26(10-12)	07/21/21	0.00281 U	0.00255 U	0.00264 U	**0.00479** J	**0.0064** J	**0.00771**	**0.00646** J	0.00263 U	**0.00696** J	0.0021 U	**0.00755**	0.0025 U	**0.00519** J	0.00499 U	**0.00806**	**0.0123**	0.00549 U	0.00522 U	0.00569 U
DEQ Generic RBCs[1]																				
Soil Ingestion, Dermal Contact, and Inhalation																				
Occupational		350,000	70,000	NE	21	2.1	21	NE	210	2,100	2.1	30,000	47,000	21	23	NE	23,000	NE	NE	NE
Construction Worker		110,000	21,000	NE	170	17	170	NE	1,700	17,000	17	10,000	14,000	170	580	NE	7,500	NE	NE	NE
Excavation Worker		>Max	590,000	NE	4,800	490	4,900	NE	49,000	490,000	490	280,000	390,000	4,900	16,000	NE	210,000	NE	NE	NE
DEQ CFSLs[2]		6.8	0.25	120	0.73	0.11	1.1	25	11	3.1	0.11	10	3.7	1.1	0.077	5.5	10	0.36	11	230

Notes:
1. DEQ Generic RBCs dated May 2018
2. DEQ CFSLs dated February 21, 2019
J: The identification of the analyte is acceptable; the reported value is an estimate.
>Max: The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario.
U: Not detected. Reporting or detection limit shown.
Bolding indicates analyte detection.
Shading indicates analyte detection at a concentration greater than DEQ RBCs and/or CFSLs.

TABLE 3
Summary of Soil Sample Chemical Analytical Results
RCRA 8 Total Metals and Leachable Lead and Mercury
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	RCRA 8 Total Metals EPA Method 6020B (mg/kg)								TCLP Lead EPA Methods 1311/6010D (mg/L)	TCLP Mercury EPA Methods 1311/7470A (mg/L)
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver		
DP-1(0-2.5)	07/22/21	1.32	72.4	0.142 J	4.73 J	37.3	0.039 J	0.403 J	0.0916 U	--	--
DP-2(0-3)	07/22/21	4.37	403	0.468 J	21.9	732	2.11	0.693 J	0.871	0.100 U	--
DP-3(0-3)	07/22/21	2.03	159	0.149 J	8.69	94.1	0.102	0.564 J	0.113 U	--	--
DP-4(0-3)	07/22/21	0.562 J	47.0	0.0952 U	2.36 J	5.84	0.0223 J	0.265 J	0.0963 U	--	--
DP-4(5-6)	07/22/21	1.94	111	0.162 J	6.83	26.9	0.678	0.287 J	0.104 U	--	--
DP-5(0-3)	07/22/21	1.74	55.5	0.164 J	9.11	6.32	0.116	0.199 U	0.0957 U	--	--
DP-5(5-6)	07/22/21	3.35	161	0.182 J	25.4	5.63	0.0469 J	0.643 J	0.112 U	--	--
DP-6(0-3.5)	07/22/21	2.56	197	0.262 J	23.7	12.2	0.164	0.412 J	0.099 U	--	--
DP-6(5-7)	07/22/21	4.81	146	0.244 J	19.3	12.5	0.392	0.901 J	0.113 U	--	--
DP-7(0-3)	07/22/21	2.12	68.0	0.226 J	7.54	4.83	0.0426 U	0.215 J	0.0921 U	--	--
DP-7(5-7)	07/22/21	3.14	235	0.190 J	17.0	46.4	0.898	0.419 J	0.121 U	--	--
DP-8(0-3.5)	07/22/21	2.20	59.6	0.197 J	8.43	5.11	0.0418 U	0.188 U	0.0904 U	--	--
DP-8(5-8)	07/22/21	3.57	195	0.334 J	26.7	56.1	0.105	0.584 J	0.136 U	--	--
DP-9(0-4)	07/22/21	1.07	72.3	0.104 J	5.76	6.73	0.0419 U	0.316 J	0.0906 U	--	--
DP-9(5-7.5)	07/22/21	3.95	203	0.133 U	25.4	32.9	0.0623 U	0.768 J	0.135 U	--	--
DP-10(0-4)	07/21/21	1.87	91.8	0.145 J	8.56	32.5	0.0302 J	0.321 J	0.0965 U	--	--
DP-10(5-8)	07/21/21	3.36	120	0.142 U	17.1	13.9	0.0667 U	0.861 J	0.144 U	--	--
DP-11(0-3.5)	07/21/21	3.06	72.4	0.335 J	8.47	60.2	0.0976	0.295 J	0.0912 U	--	--
DP-11(5-6)	07/21/21	2.03	160	0.193 J	12.7	13.3	0.0372 J	0.456 J	0.0982 U	--	--
DP-12(0-3)	07/21/21	1.80	88.1	0.155 J	8.95	26.8	0.046	0.249 J	0.0937 U	--	--
DP-12(5-7.5)	07/21/21	3.94	161	0.272 J	12.2	47.9	0.0671 U	0.631 J	0.145 U	--	--
DP-13(0-2.5)	07/21/21	1.33	65.2	0.0909 U	3.06 J	7.62	0.0425 U	0.231 J	0.092 U	--	--
DP-13(5-8)	07/21/21	3.25	118	0.1600 U	13.3	30.4	0.121	0.498 J	0.162 U	--	--
DP-14(0-3)	07/21/21	7.82	248	0.126 J	17.1	4.59	0.0432 U	0.282 J	0.0933 U	--	--
DP-14(5-7)	07/21/21	1.34 J	55.4	0.229 U	5.88 J	6.75	0.107 U	0.483 U	0.232 U	--	--
DP-15(0-4)	07/21/21	3.35	53.5	0.0948 U	5.07 J	6.17	0.0443 U	0.45 J	0.0959 U	--	--
DP-15(5-7.5)	07/21/21	5.32	120	0.371 J	19.2	253	137	0.469 J	0.219 U	0.172	0.010 U
DP-16(0-4)	07/21/21	1.60	63.0	0.171 J	8.96	10.9	0.116	0.257 J	0.0959 U	--	--
DP-16(5-6)	07/21/21	1.27 J	77.4	0.121 U	11.4	7.25	0.159	0.745 J	0.123 U	--	--
DP-17(0-4)	07/21/21	1.27	152	0.138 J	7.84	25.5	0.0276 J	0.454 J	0.0958 U	--	--
DP-17(5-8)	07/21/21	4.10	689	0.217 J	13.2	38.5	0.137	0.528 J	0.139 U	--	--
DP-18(0-3)	07/21/21	1.05	53.9	0.0882 U	4.44 J	2.09	0.0749	0.402 J	0.0892 U	--	--
DP-18(5-8)	07/21/21	3.70	102	0.218 U	17.9	6.78	0.102 U	0.709 J	0.220 U	--	--

TABLE 3
Summary of Soil Sample Chemical Analytical Results
RCRA 8 Total Metals and Leachable Lead and Mercury
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	RCRA 8 Total Metals EPA Method 6020B (mg/kg)								TCLP Lead EPA Methods 1311/6010D (mg/L)	TCLP Mercury EPA Methods 1311/7470A (mg/L)
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver		
DP-18(10-11)	07/21/21	1.76	111	0.102 U	11.9	4.57	0.0479 U	0.551 J	0.103 U	--	--
DP-19(0-4)	07/21/21	2.50	59.6	0.19 J	7.38	8.51	0.0518	0.275 J	0.144	--	--
DP-19(5-8.5)	07/21/21	5.69	1,090	1.33 J	12.5	101	0.321	0.42 J	0.299	0.100 U	--
DP-19(10-13.5)	07/21/21	3.83	184	0.136 J	27.7	12.7	0.0365 J	1.06 J	0.122 U	--	--
DP-20(0-2.5)	07/21/21	2.40	67.2	0.165 J	7.00	3.95	0.0420 U	0.256 J	0.0909 U	--	--
DP-20(5-7.5)	07/21/21	4.73	219	0.306 J	20.6	34.1	0.0677	0.663 J	0.126 U	--	--
DP-20(10-11)	07/21/21	7.38	215	0.153 J	32.2	14.4	0.0423 J	0.828 J	0.127 U	--	--
DP-21(0-4)	07/21/21	2.36	68.3	0.186 J	7.66	3.70	0.0450 U	0.202 U	0.0972 U	--	--
DP-21(5-7.5)	07/21/21	2.65	54.9	0.209 J	7.02	3.92	0.0423 U	0.19 U	0.0915 U	--	--
DP-21(10-12.5)	07/21/21	5.08	196	0.123 U	29.6	12.7	0.0452 J	0.662 J	0.124 U	--	--
DP-22(0-4)	07/21/21	2.66	79.4	0.217 J	7.64	3.35	0.0424 U	0.191 U	0.0916 U	--	--
DP-22(5-8.5)	07/21/21	2.46	57.6	0.179 J	7.36	3.40	0.0433 U	0.195 U	0.0936 U	--	--
DP-22(10-14)	07/21/21	2.36	104	0.149 J	11.2	18.0	0.0743	0.688 J	0.144 U	--	--
DP-23(0-4)	07/21/21	1.90	59.2	0.159 J	7.45	2.92	0.0411 U	0.241 J	0.0888 U	--	--
DP-23(5-9)	07/21/21	1.81	64.8	0.245 J	9.37	3.39	0.0436 U	0.201 J	0.0943 U	--	--
DP-23(10-13.5)	07/21/21	1.94	49.2	0.168 J	7.07	3.06	0.0416 U	0.187 U	0.090 U	--	--
DP-24(0-4)	07/21/21	2.16	56.0	0.162 J	7.87	3.13	0.0411 U	0.185 U	0.0889 U	--	--
DP-24(5-9)	07/21/21	2.28	55.6	0.187 J	8.05	3.25	0.0415 U	0.187 U	0.0897 U	--	--
DP-24(10-13)	07/21/21	1.86	73.8	0.246 J	8.53	3.81	0.0426 U	0.192 U	0.0921 U	--	--
DP-25(0-2.5)	07/21/21	1.96	55.1	0.18 J	7.22	4.00	0.0412 U	0.185 U	0.089 U	--	--
DP-25(5-8)	07/21/21	3.04	68.8	0.211 J	8.57	3.77	0.0413 U	0.194 J	0.0894 U	--	--
DP-25(10-11.5)	07/21/21	2.59	113	0.101 J	8.86	14.7	0.0459 U	0.217 J	0.0992 U	--	--
DP-26(0-3)	07/21/21	2.18	45.2	0.139 J	7.22	5.91	0.0429 U	0.233 J	0.0928 U	--	--
DP-26(5-7.5)	07/21/21	2.44	65.8	0.145 J	8.41	3.28	0.0478 U	0.215 U	0.103 U	--	--
DP-26(10-12)	07/21/21	2.79	163	0.172 J	11.7	7.44	0.0489 U	0.621 J	0.106 U	--	--
DEQ Generic RBCs[1]											
Soil Ingestion, Dermal Contact, and Inhalation											
Occupational		1.9[2]	220,000	1,100	>Max	800	350	NE	5,800	NE	NE
Construction Worker		15	69,000	350	530,000	800	110	NE	1,800	NE	NE
Excavation Worker		420	>Max	9,700	>Max	800	2,900	NE	49,000	NE	NE
DEQ CFSLs[3]		8.8	790	0.63	76	28	0.23	0.71	0.82	NE	NE
EPA Maximum Threshold Limits		100	2,000	20	100	100	4	20	100	NE	NE
EPA Landfill Disposal Limits		NA	NA	NA	NA	NA	NA	NA	NA	5	0.2

TABLE 3
Summary of Soil Sample Chemical Analytical Results
RCRA 8 Total Metals and Leachable Lead and Mercury
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	RCRA 8 Total Metals EPA Method 6020B (mg/kg)								TCLP Lead EPA Methods 1311/6010D (mg/L)	TCLP Mercury EPA Methods 1311/7470A (mg/L)
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver		

Notes:
1. DEQ Generic RBCs dated May 2018
2. The naturally occurring concentration of arsenic in soil in the Portland Basin is 8.8 mg/kg; detected concentrations of arsenic less than the naturally occurring concentration are not considered exceedances of the RBC.
3. DEQ CFSLs for the Portland Basin dated February 21, 2019

J: The identification of the analyte is acceptable; the reported value is an estimate.
>Max: The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose risks in this scenario.
U: Not detected. Reporting or detection limit shown.
Bolding indicates analyte detection.
Shading indicates analyte detection at a concentration greater than DEQ RBCs and/or CFSLs.
–: not analyzed

TABLE 4
Summary of Soil Sample Chemical Analytical Results
PCBs
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	PCBs EPA Method 8082A (mg/kg)						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
DP-1(0-2.5)	07/22/21	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.00781 U	0.00781 U	0.00781 U
DP-2(0-3)	07/22/21	0.0154 U	0.0154 U	0.0154 U	0.0154 U	0.0096 U	0.0096 U	0.0096 U
DP-3(0-3)	07/22/21	0.0154 U	0.0154 U	0.0154 U	0.0154 U	0.00961 U	0.00961 U	0.00961 U
DP-4(0-3)	07/22/21	0.0131 U	0.0131 U	0.0131 U	0.0131 U	0.00822 U	0.00822 U	0.00822 U
DP-4(5-6)	07/22/21	0.0142 U	0.0142 U	0.0142 U	0.0142 U	0.00886 U	0.00886 U	0.00886 U
DP-5(0-3)	07/22/21	0.013 U	0.013 U	0.013 U	0.013 U	0.00816 U	0.00816 U	0.00816 U
DP-5(5-6)	07/22/21	0.0152 U	0.0152 U	0.0152 U	0.0152 U	0.00953 U	0.00953 U	0.00953 U
DP-6(0-3.5)	07/22/21	0.0135 U	0.0135 U	0.0135 U	0.0135 U	0.00845 U	0.00845 U	0.00845 U
DP-6(5-7)	07/22/21	0.0154 U	0.0154 U	0.0154 U	0.0154 U	0.00961 U	0.00961 U	0.00961 U
DP-7(0-3)	07/22/21	0.0126 U	0.0126 U	0.0126 U	0.0126 U	0.00786 U	0.00786 U	0.00786 U
DP-7(5-7)	07/22/21	0.0166 U	0.0166 U	0.0166 U	0.0166 U	0.0104 U	0.0104 U	0.0104 U
DP-8(0-3.5)	07/22/21	0.0123 U	0.0123 U	0.0123 U	0.0123 U	0.00771 U	0.00771 U	0.00771 U
DP-8(5-8)	07/22/21	0.0186 U	0.0186 U	0.0186 U	0.0186 U	0.0116 U	0.0116 U	0.0116 U
DP-9(0-4)	07/22/21	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.00773 U	0.00773 U	0.00773 U
DP-9(5-7.5)	07/22/21	0.0184 U	0.0184 U	0.0184 U	0.0184 U	0.0115 U	0.0115 U	0.0115 U
DP-10(0-4)	07/21/21	0.0132 U	0.0132 U	0.0132 U	0.0132 U	0.00823 U	0.00823 U	0.00823 U
DP-10(5-8)	07/21/21	0.0197 U	0.0197 U	0.0197 U	0.0197 U	0.0123 U	0.0123 U	0.0123 U
DP-11(0-3.5)	07/21/21	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.00778 U	0.00778 U	0.00778 U
DP-11(5-6)	07/21/21	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00838 U	0.00838 U	0.00838 U
DP-12(0-3)	07/21/21	0.0128 U	0.0128 U	0.0128 U	0.0128 U	0.008 U	0.008 U	0.008 U
DP-12(5-7.5)	07/21/21	0.0198 U	0.0198 U	0.0198 U	0.0198 U	0.0124 U	0.0124 U	0.0124 U
DP-13(0-2.5)	07/21/21	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.00785 U	**0.0154 J**	0.00785 U

TABLE 4
Summary of Soil Sample Chemical Analytical Results
PCBs
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	PCBs EPA Method 8082A (mg/kg)						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
DP-13(5-8)	07/21/21	0.0221 U	0.0221 U	0.0221 U	0.0221 U	0.0138 U	0.0138 U	0.0138 U
DP-14(0-3)	07/21/21	0.0127 U	0.0127 U	0.0127 U	0.0127 U	0.00796 U	0.00796 U	0.00796 U
DP-14(5-7)	07/21/21	0.0317 U	0.0317 U	0.0317 U	0.0317 U	0.0198 U	0.0198 U	0.0198 U
DP-15(0-4)	07/21/21	0.0131 U	0.0131 U	0.0131 U	0.0131 U	0.00818 U	0.00818 U	0.00818 U
DP-15(5-7.5)	07/21/21	0.0299 U	0.0299 U	0.0299 U	0.0299 U	0.0187 U	0.0187 U	0.0187 U
DP-16(0-4)	07/21/21	0.0131 U	0.0131 U	0.0131 U	0.0131 U	0.00819 U	0.00819 U	0.00819 U
DP-16(5-6)	07/21/21	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0105 U	0.0105 U	0.0105 U
DP-17(0-4)	07/21/21	0.0131 U	0.0131 U	0.0131 U	0.0131 U	0.00817 U	0.00817 U	0.00817 U
DP-17(5-8)	07/21/21	0.0189 U	0.0189 U	0.0189 U	0.0189 U	0.0118 U	0.0118 U	0.0118 U
DP-18(0-3)	07/21/21	0.0122 U	0.0122 U	0.0122 U	0.0122 U	0.00761 U	0.00761 U	0.00761 U
DP-18(5-8)	07/21/21	0.0301 U	0.0301 U	0.0301 U	0.0301 U	0.0188 U	0.0188 U	0.0188 U
DP-18(10-11)	07/21/21	0.0141 U	0.0141 U	0.0141 U	0.0141 U	0.00883 U	0.00883 U	0.00883 U
DP-19(0-4)	07/21/21	0.0126 U	0.0126 U	0.0126 U	0.0126 U	0.00787 U	0.00787 U	0.00787 U
DP-19(5-8.5)	07/21/21	0.0187 U	0.0187 U	0.0187 U	0.0187 U	0.0117 U	0.0117 U	0.0117 U
DP-19(10-13.5)	07/21/21	0.0167 U	0.0167 U	0.0167 U	0.0167 U	0.0104 U	0.0104 U	0.0104 U
DP-20(0-2.5)	07/21/21	0.0124 U	0.0124 U	0.0124 U	0.0124 U	0.00775 U	0.00775 U	0.00775 U
DP-20(5-7.5)	07/21/21	0.0173 U	0.0173 U	0.0173 U	0.0173 U	0.0108 U	0.0108 U	0.0108 U
DP-20(10-11)	07/21/21	0.0173 U	0.0173 U	0.0173 U	0.0173 U	0.0108 U	0.0108 U	0.0108 U
DP-21(0-4)	07/21/21	0.0133 U	0.0133 U	0.0133 U	0.0133 U	0.0083 U	0.0083 U	0.0083 U
DP-21(5-7.5)	07/21/21	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.00781 U	0.00781 U	0.00781 U
DP-21(10-12.5)	07/21/21	0.0169 U	0.0169 U	0.0169 U	0.0169 U	0.0106 U	0.0106 U	0.0106 U
DP-22(0-4)	07/21/21	0.0125 U	0.0125 U	0.0125 U	0.0125 U	0.00782 U	0.00782 U	0.00782 U

TABLE 4
Summary of Soil Sample Chemical Analytical Results
PCBs
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	PCBs EPA Method 8082A (mg/kg)						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
DP-22(5-8.5)	07/21/21	0.0128 U	0.0128 U	0.0128 U	0.0128 U	0.00799 U	0.00799 U	0.00799 U
DP-22(10-14)	07/21/21	0.0196 U	0.0196 U	0.0196 U	0.0196 U	0.0123 U	0.0123 U	0.0123 U
DP-23(0-4)	07/21/21	0.0121 U	0.0121 U	0.0121 U	0.0121 U	0.00758 U	0.00758 U	0.00758 U
DP-23(5-9)	07/21/21	0.0129 U	0.0129 U	0.0129 U	0.0129 U	0.00805 U	0.00805 U	0.00805 U
DP-23(10-13.5)	07/21/21	0.0123 U	0.0123 U	0.0123 U	0.0123 U	0.00767 U	0.00767 U	0.00767 U
DP-24(0-4)	07/21/21	0.0121 U	0.0121 U	0.0121 U	0.0121 U	0.00758 U	0.00758 U	0.00758 U
DP-24(5-9)	07/21/21	0.0122 U	0.0122 U	0.0122 U	0.0122 U	0.00765 U	0.00765 U	0.00765 U
DP-24(10-13)	07/21/21	0.0126 U	0.0126 U	0.0126 U	0.0126 U	0.00786 U	0.00786 U	0.00786 U
DP-25(0-2.5)	07/21/21	0.0121 U	0.0121 U	0.0121 U	0.0121 U	0.0076 U	0.0076 U	0.0076 U
DP-25(5-8)	07/21/21	0.0122 U	0.0122 U	0.0122 U	0.0122 U	0.00763 U	0.00763 U	0.00763 U
DP-25(10-11.5)	07/21/21	0.0135 U	0.0135 U	0.0135 U	0.0135 U	0.00846 U	0.00846 U	0.00846 U
DP-26(0-3)	07/21/21	0.0127 U	0.0127 U	0.0127 U	0.0127 U	0.00792 U	0.00792 U	0.00792 U
DP-26(5-7.5)	07/21/21	0.0141 U	0.0141 U	0.0141 U	0.0141 U	0.00881 U	0.00881 U	0.00881 U
DP-26(10-12)	07/21/21	0.0144 U	0.0144 U	0.0144 U	0.0144 U	0.00902 U	0.00902 U	0.00902 U
DEQ Generic RBCs[1]								
Soil Ingestion, Dermal Contact, and Inhalation								
Occupational		0.59						
Construction Worker		4.9						
Excavation Worker		140						
DEQ CFSLs[2]		1.1	0.0048	0.0048	0.041	0.0073	0.041	0.24
EPA Allowable Limits		50						

TABLE 4
Summary of Soil Sample Chemical Analytical Results
PCBs
1st and Strand Streets
St. Helens, Oregon

Sample I.D. (depth in feet BGS)	Sample Date	PCBs EPA Method 8082A (mg/kg)						
		Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260

Notes:
1. DEQ Generic RBCs dated May 2018
2. DEQ CFSLs dated February 21, 2019
J: The identification of the analyte is acceptable; the reported value is an estimate.
U: Not detected. Reporting or detection limit shown.
Bolding indicates analyte detection.

APPENDIX A

APPENDIX A

FIELD PROCEDURES

EXPLORATIONS

Stratus Corporation of Gaston, Oregon, advanced 26 direct-push borings (DP-1 through DP-26) at the 1st and Strand Streets project to a depth of 15 feet BGS or probe refusal on July 21 and 22, 2021. The locations of the explorations are shown on Figure 1. The exploration logs are presented in this appendix. A NV5 field representative observed the drilling activities and collected soil samples from the borings. The soil encountered in the borings was visually classified in general accordance with ASTM D2488.

Soil Sampling

Continuous soil samples were collected from the borings. Soil samples collected from the direct-push borings were collected from 2-inch-diameter, 60-inch-long samplers lined with acrylic sleeves. NV5 attempted to collect three 3-point composite soil samples from each boring, including one 3-point composite soil sample representative of soil between 0 and 5 feet BGS, one 3-point composite soil sample representative of soil between 5 and 10 feet BGS, and one 3-point composite soil sample representative of soil between 10 and 15 feet BGS. Sample collection was limited to one or two composite samples on several borings due to refusal.

Soil samples collected for chemical analysis are summarized in the table below:

Boring	Soil Sample Depth (feet BGS)
DP-1	0-2.5
DP-2	0-3
DP-3	0-3
DP-4	0-3, 5-6
DP-5	0-3, 5-6
DP-6	0-3.5, 5-7
DP-7	0-3, 5-7
DP-8	0-3.5, 5-8
DP-9	0-4, 5-7.5
DP-10	0-4, 5.8
DP-11	0-3.5, 5-6
DP-12	0-3, 5-7.5
DP-13	0-2.5, 5-8
DP-14	0-3, 5-7
DP-15	0-4, 5-7.5
DP-16	0-4, 5-6
DP-17	0-4, 5-8
DP-18	0-3, 5-8, 10-11
DP-19	0-4, 5-8.5, 10-13.5
DP-20	0-2.5, 5-7.5, 10-11

Boring	Soil Sample Depth (feet BGS)
DP-21	0-4, 5-7.5, 10-12.5
DP-22	0-4, 5-8.5, 10-14
DP-23	0-4, 5-9, 10-13.5
DP-24	0-4, 5-9, 10-13
DP-25	0-2.5, 5-8, 10-11.5
DP-26	0-3, 5-7.5, 10-12

Soil samples were placed immediately in an ice chest and kept cool with wet ice until delivery to the laboratory. Standard chain-of-custody procedures were observed during transport of the samples to the laboratory.

Soil Sampling Field Screening Methods

A NV5 representative performed field screening tests on select soil samples collected from the borings. Field screening results aided in the selection of soil samples for chemical analysis. Screening methods included visual examination, water sheen screening, and headspace vapor screening using a 10.6-eV MiniRAE 3000 PID. Visual screening consisted of inspecting the soil for discoloration indicative of the presence of petroleum contamination in the sample. Water sheen screening involved placing soil in water and observing the water surface for signs of sheen. Sheen classifications are as follows:

No Sheen	No visible sheen on the water surface.
Slight Sheen	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly. Natural organic matter in the soil may produce a slight sheen.
Moderate Sheen	Light to heavy sheen; may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface.
Heavy Sheen	Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen.

Headspace vapor screening is performed by placing a soil sample in a plastic bag. Air is captured in the bag, and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a MiniRAE 3000 PID is inserted into the bag, and the MiniRAE PID measures VOC vapor concentrations in units of ppmv. The MiniRAE 3000 PID is calibrated to isobutylene. The MiniRAE PID is designed to quantify VOC vapor concentrations in the range between 10 and 2,000 ppmv with an accuracy of 2 percent of the reading and between 2,000 and 10,000 ppmv with an accuracy of 20 percent of the reading.

Field screening results are site and exploration specific. The results may vary with temperature, soil moisture content, soil type, and type of contaminant.

DECONTAMINATION

All sampling equipment used in the collection of samples was decontaminated prior to use. Decontamination was performed on all re-usable sample processing equipment that came into contact with sampling media, including tools, stainless steel implements, trowels, etc. Decontamination was performed prior to sampling each location using the following procedures:

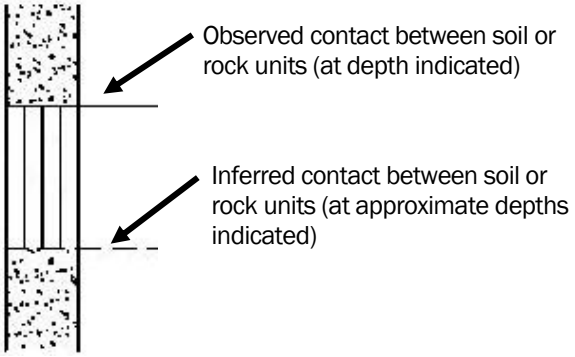
1. Rinsed with tap water and scrubbed with a scrub brush until free of large particles (e.g., sediment or soil).
2. Washed with phosphate-free (Alconox™) detergent solution.
3. Rinsed with tap water.
4. Rinsed with distilled water.

IDW MANAGEMENT

IDW from the borings (soil cuttings) was disposed of off site by Stratus Corporation.

SYMBOL	SAMPLING DESCRIPTION
	Location of sample collected in general accordance with ASTM D1586 using Standard Penetration Test (SPT) with recovery
	Location of sample collected using thin-wall Shelby tube or Geoprobe® sampler in general accordance with ASTM D1587 with recovery
	Location of sample collected using Dames & Moore sampler and 300-pound hammer or pushed with recovery
	Location of sample collected using Dames & Moore sampler and 140-pound hammer or pushed with recovery
	Location of sample collected using 3-inch-outside diameter California split-spoon sampler and 140-pound hammer with recovery
	Location of grab sample
	Rock coring interval
	Water level during drilling
	Water level taken on date shown

Graphic Log of Soil and Rock Types



GEOTECHNICAL TESTING EXPLANATIONS

ATT	Atterberg Limits	P	Pushed Sample
CBR	California Bearing Ratio	PP	Pocket Penetrometer
CON	Consolidation	P200	Percent Passing U.S. Standard No. 200 Sieve
DD	Dry Density		
DS	Direct Shear	RES	Resilient Modulus
HYD	Hydrometer Gradation	SIEV	Sieve Gradation
MC	Moisture Content	TOR	Torvane
MD	Moisture-Density Relationship	UC	Unconfined Compressive Strength
NP	Non-Plastic	VS	Vane Shear
OC	Organic Content	kPa	Kilopascal

ENVIRONMENTAL TESTING EXPLANATIONS

CA	Sample Submitted for Chemical Analysis	ND	Not Detected
P	Pushed Sample	NS	No Visible Sheen
PID	Photoionization Detector Headspace Analysis	SS	Slight Sheen
		MS	Moderate Sheen
ppm	Parts per Million	HS	Heavy Sheen

RELATIVE DENSITY - COARSE-GRAINED SOIL

Relative Density	Standard Penetration Test (SPT) Resistance	Dames & Moore Sampler (140-pound hammer)	Dames & Moore Sampler (300-pound hammer)
Very loose	0 – 4	0 – 11	0 – 4
Loose	4 – 10	11 – 26	4 – 10
Medium dense	10 – 30	26 – 74	10 – 30
Dense	30 – 50	74 – 120	30 – 47
Very dense	More than 50	More than 120	More than 47

CONSISTENCY - FINE-GRAINED SOIL

Consistency	Standard Penetration Test (SPT) Resistance	Dames & Moore Sampler (140-pound hammer)	Dames & Moore Sampler (300-pound hammer)	Unconfined Compressive Strength (tsf)
Very soft	Less than 2	Less than 3	Less than 2	Less than 0.25
Soft	2 – 4	3 – 6	2 – 5	0.25 – 0.50
Medium stiff	4 – 8	6 – 12	5 – 9	0.50 – 1.0
Stiff	8 – 15	12 – 25	9 – 19	1.0 – 2.0
Very stiff	15 – 30	25 – 65	19 – 31	2.0 – 4.0
Hard	More than 30	More than 65	More than 31	More than 4.0

PRIMARY SOIL DIVISIONS			GROUP SYMBOL	GROUP NAME
COARSE-GRAINED SOIL (more than 50% retained on No. 200 sieve)	GRAVEL (more than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVEL (< 5% fines)	GW or GP	GRAVEL
		GRAVEL WITH FINES (≥ 5% and ≤ 12% fines)	GW-GM or GP-GM	GRAVEL with silt
			GW-GC or GP-GC	GRAVEL with clay
		GRAVEL WITH FINES (> 12% fines)	GM	silty GRAVEL
			GC	clayey GRAVEL
			GC-GM	silty, clayey GRAVEL
	SAND (50% or more of coarse fraction passing No. 4 sieve)	CLEAN SAND (<5% fines)	SW or SP	SAND
		SAND WITH FINES (≥ 5% and ≤ 12% fines)	SW-SM or SP-SM	SAND with silt
			SW-SC or SP-SC	SAND with clay
		SAND WITH FINES (> 12% fines)	SM	silty SAND
			SC	clayey SAND
			SC-SM	silty, clayey SAND
FINE-GRAINED SOIL (50% or more passing No. 200 sieve)	SILT AND CLAY	Liquid limit less than 50	ML	SILT
			CL	CLAY
			CL-ML	silty CLAY
			OL	ORGANIC SILT or ORGANIC CLAY
		Liquid limit 50 or greater	MH	SILT
			CH	CLAY
			OH	ORGANIC SILT or ORGANIC CLAY
HIGHLY ORGANIC SOIL			PT	PEAT

MOISTURE CLASSIFICATION		ADDITIONAL CONSTITUENTS					
		Secondary granular components or other materials such as organics, man-made debris, etc.					
			Silt and Clay In:			Sand and Gravel In:	
Term	Field Test	Percent	Fine-Grained Soil	Coarse-Grained Soil	Percent	Fine-Grained Soil	Coarse-Grained Soil
dry	very low moisture, dry to touch						
moist	damp, without visible moisture	< 5	trace	trace	< 5	trace	trace
		5 – 12	minor	with	5 – 15	minor	minor
wet	visible free water, usually saturated	> 12	some	silty/clayey	15 – 30	with	with
					> 30	sandy/gravelly	Indicate %

NV5

SOIL CLASSIFICATION SYSTEM

TABLE A-2

DEPTH FEET	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION / DEPTH	TESTING	SAMPLE	▲ BLOW COUNT ● MOISTURE CONTENT % RQD% CORE REC% (0 50 100)	INSTALLATION AND COMMENTS
0.0		Gray GRAVEL with sand (GP), trace silt; dry (crushed rock) - **FILL**.		CA			DP-1(0-2.5) NS PID = 1.7 ppm
2.5		gray-brown, trace sand; moist at 2.0 feet			P		NS
		Exploration terminated at a depth of 4.0 feet due to refusal.	4.0				Surface elevation was not measured at the time of exploration.
5.0							
7.5							
10.0							
12.5							
15.0							
17.5							
20.0							

DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/22/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5

STHELENS-3-02

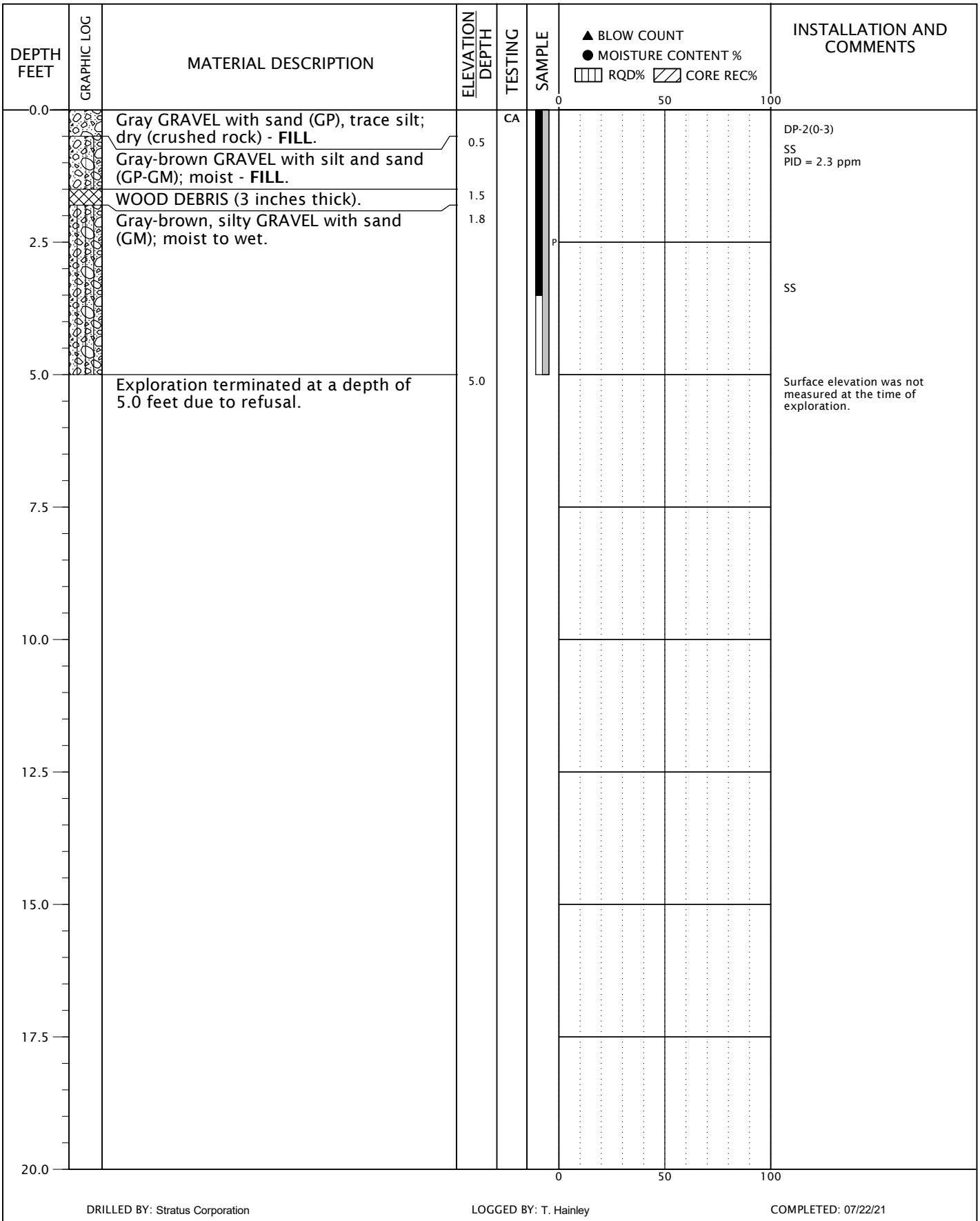
BORING DP-1

JANUARY 2022

1ST AND STRAND STREETS
ST. HELENS, OR

FIGURE A-1

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

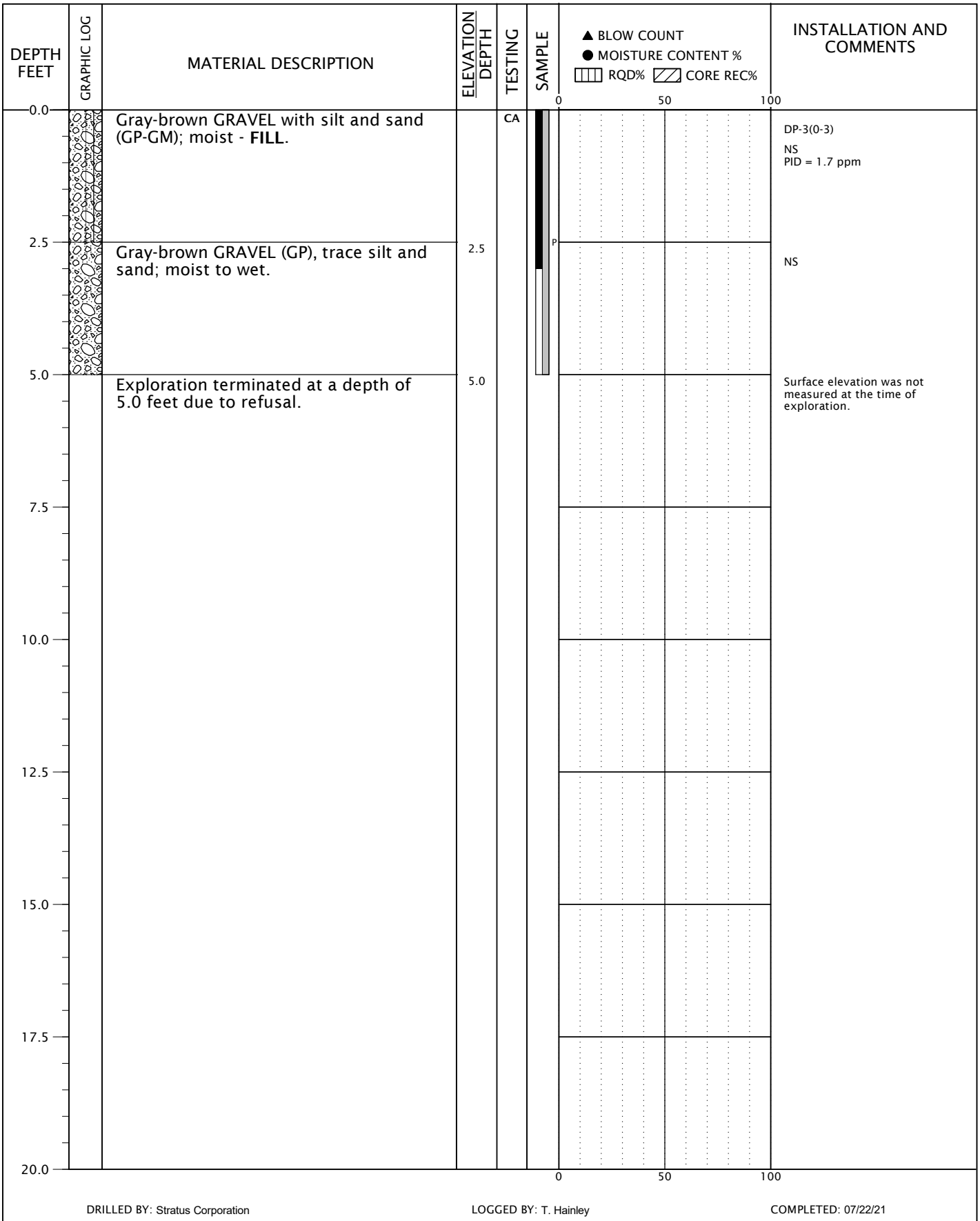
COMPLETED: 07/22/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-2**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-2

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/22/21

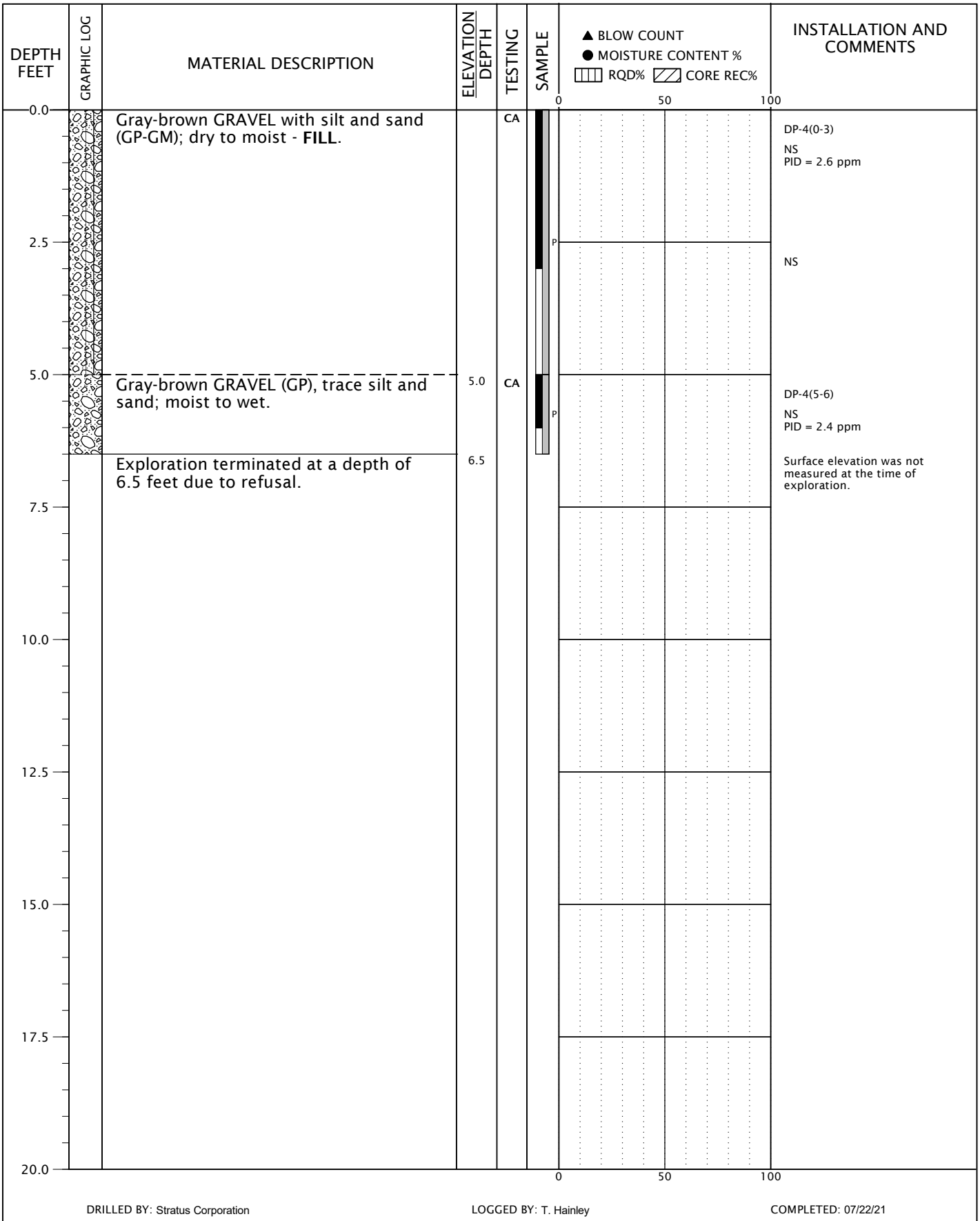
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-3**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR

FIGURE A-3

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/22/21

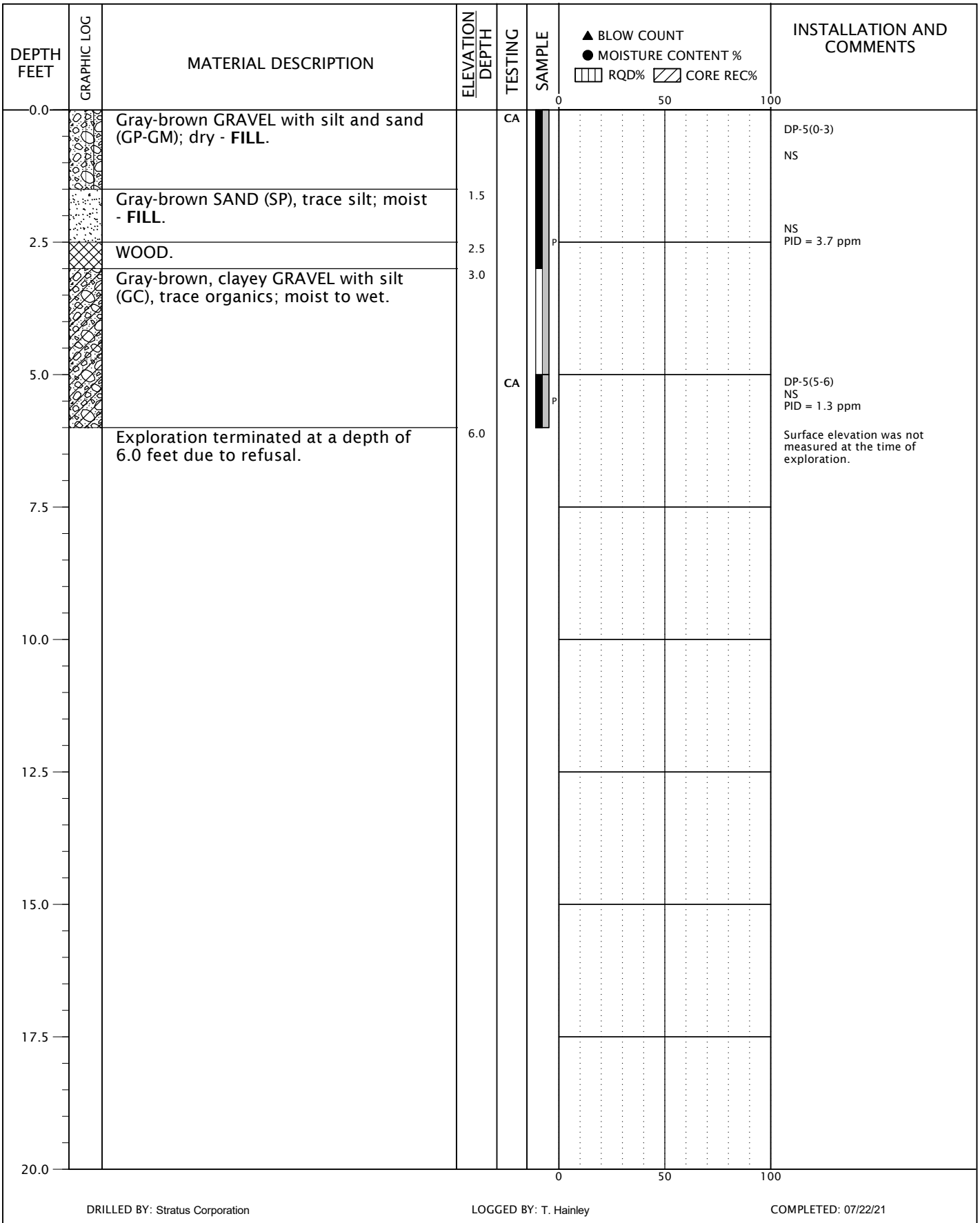
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

NV5	STHELENS-3-02	**BORING DP-4**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR

FIGURE A-4

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/22/21

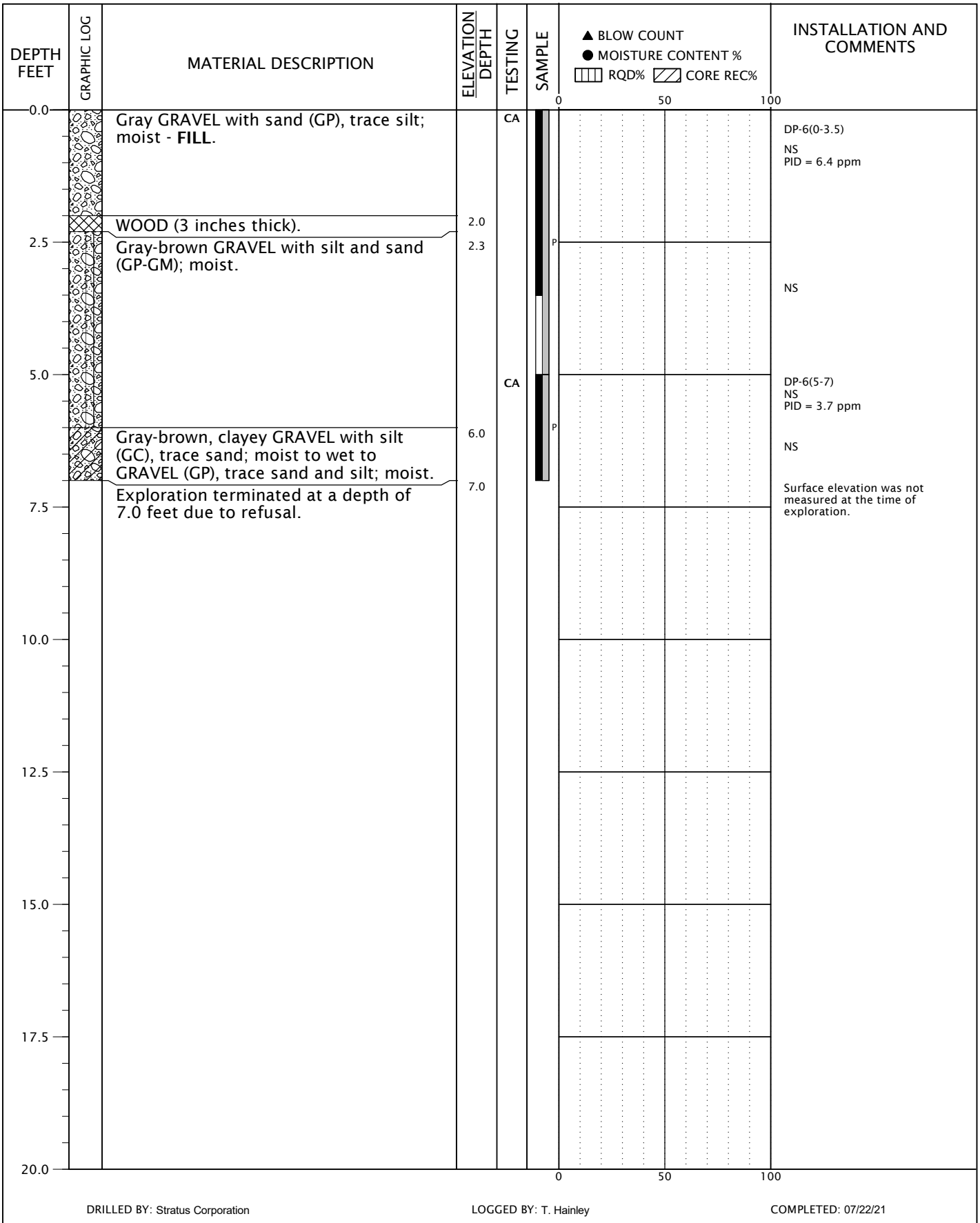
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-5**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR

FIGURE A-5

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

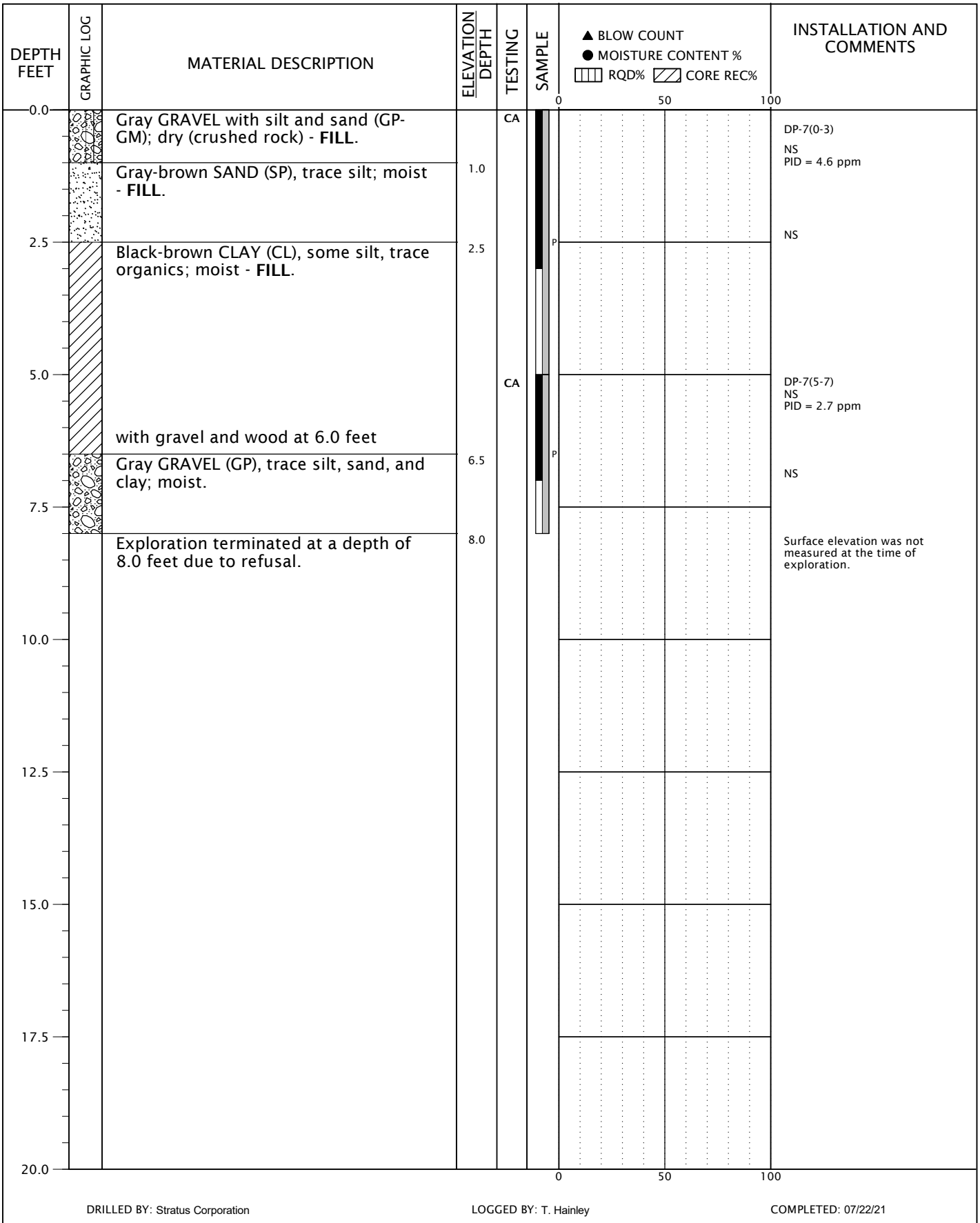
COMPLETED: 07/22/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-6**	
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR	**FIGURE A-6**

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/22/21

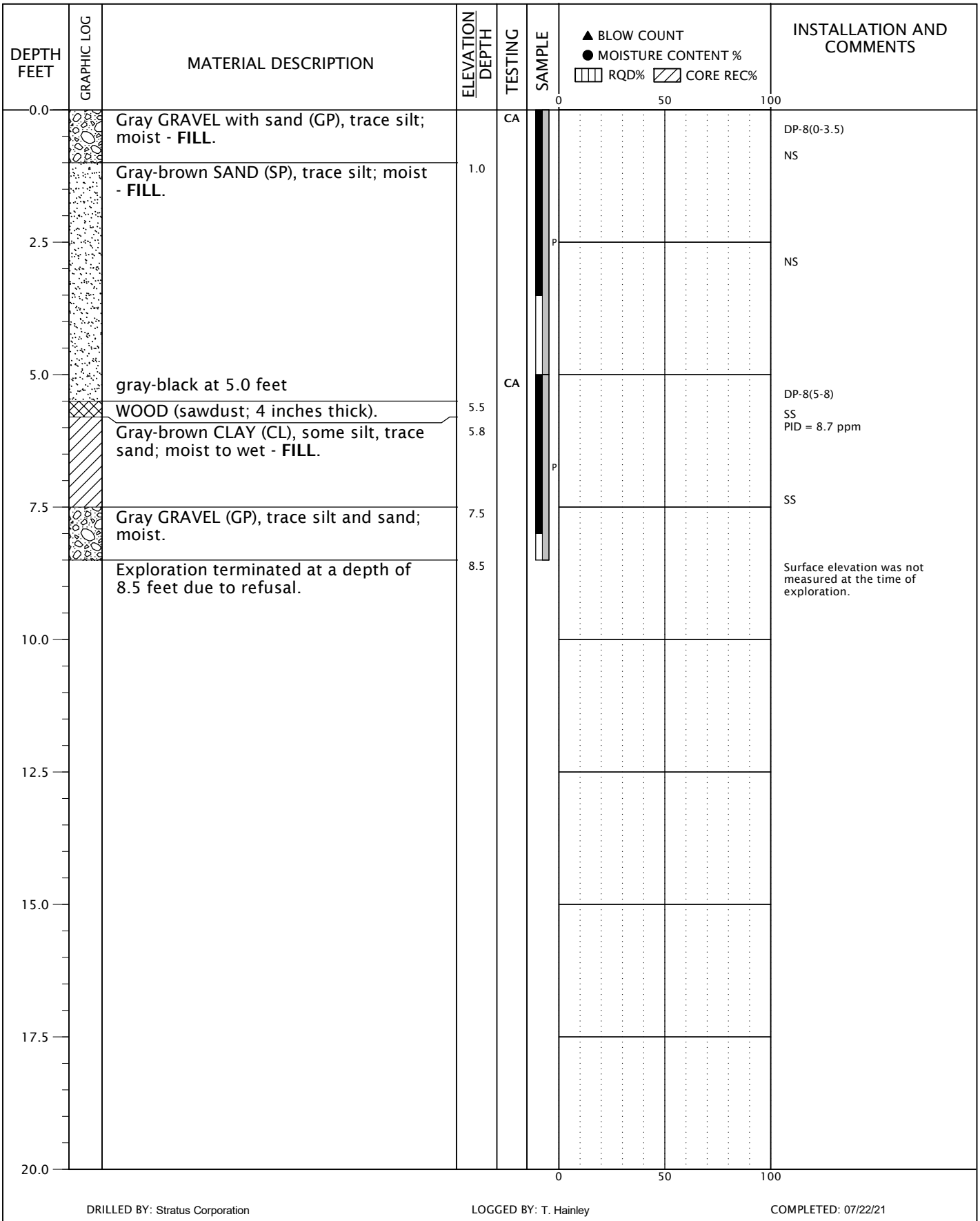
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-7**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR

FIGURE A-7

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

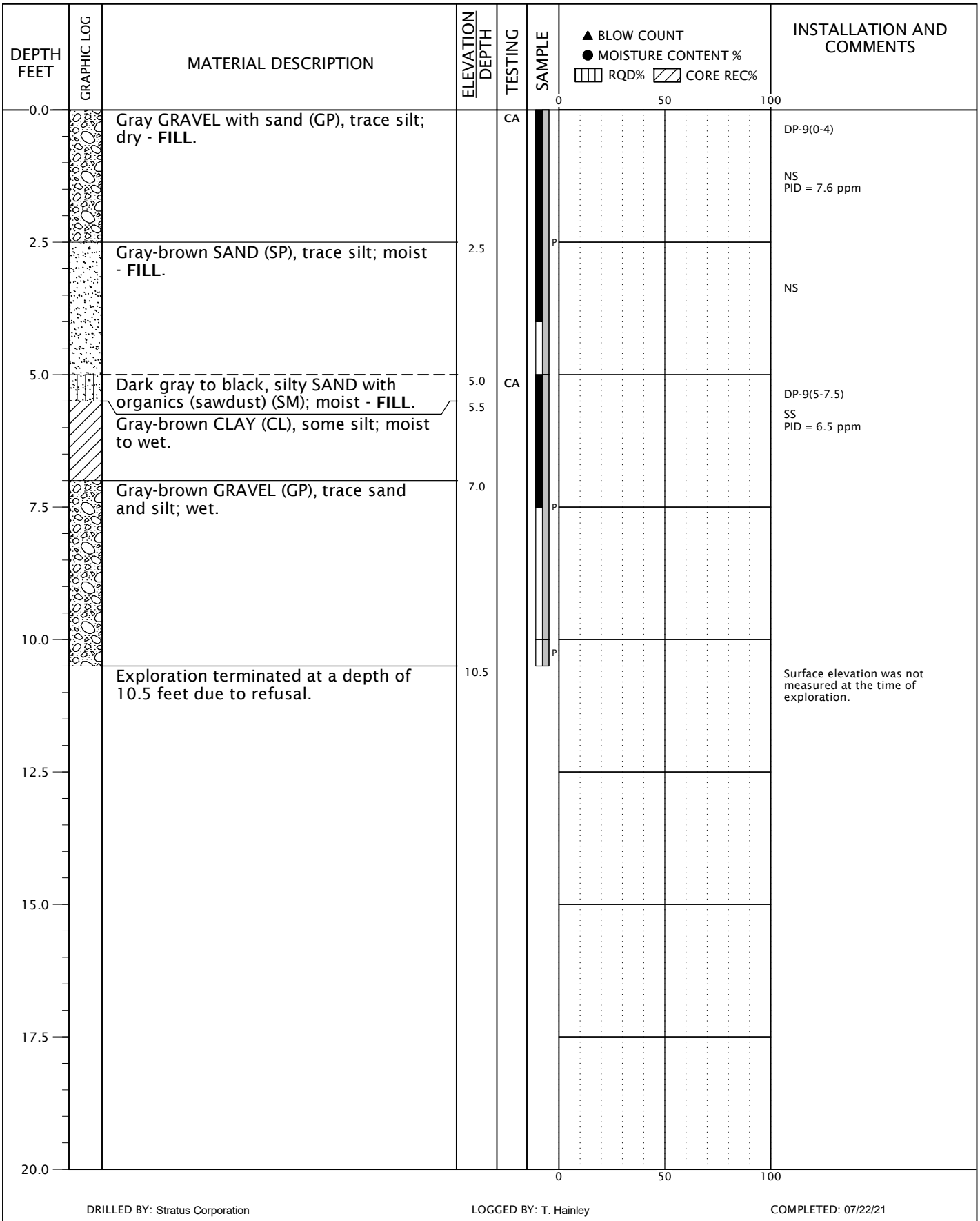
COMPLETED: 07/22/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-8**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-8

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

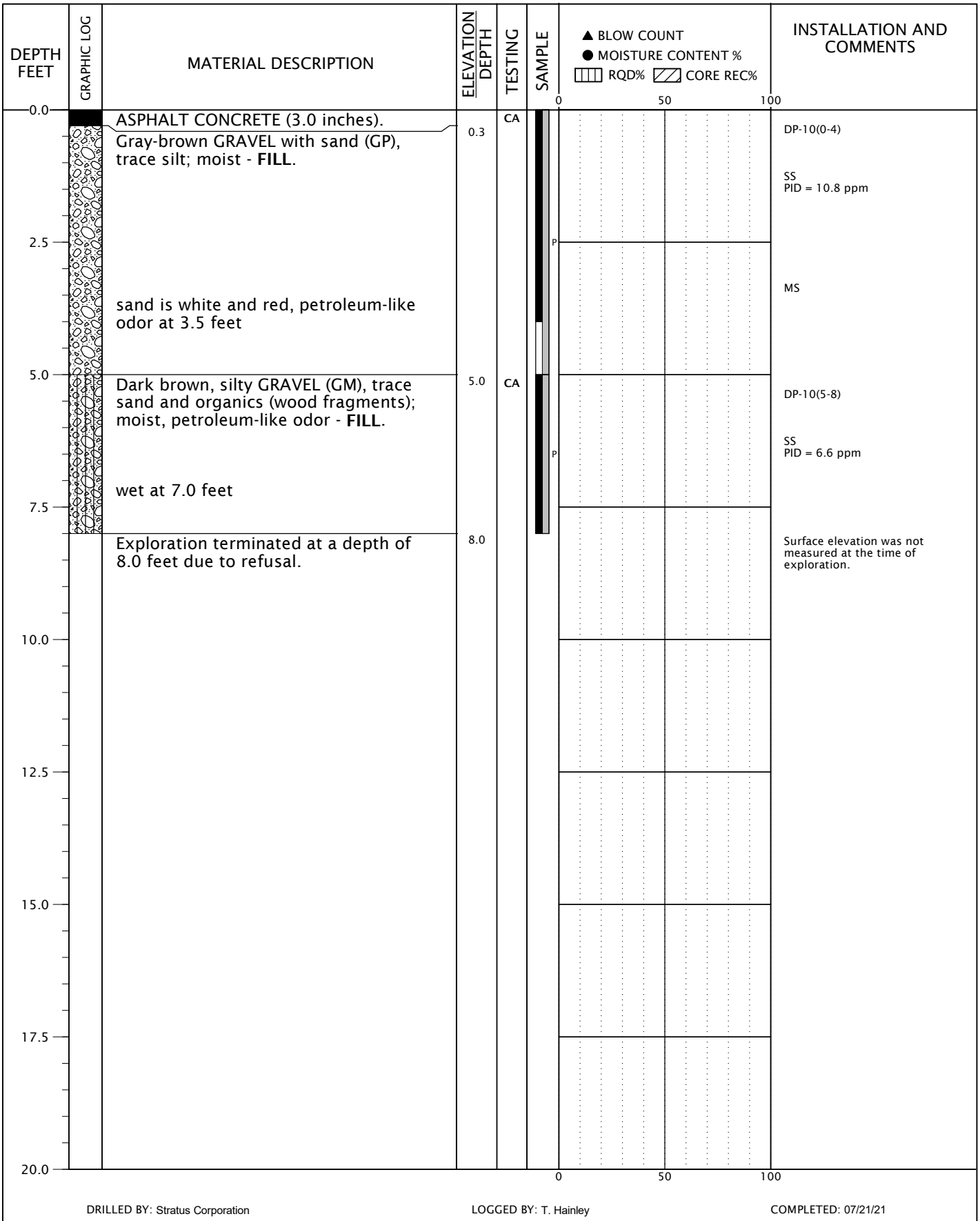
COMPLETED: 07/22/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-9**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-9

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

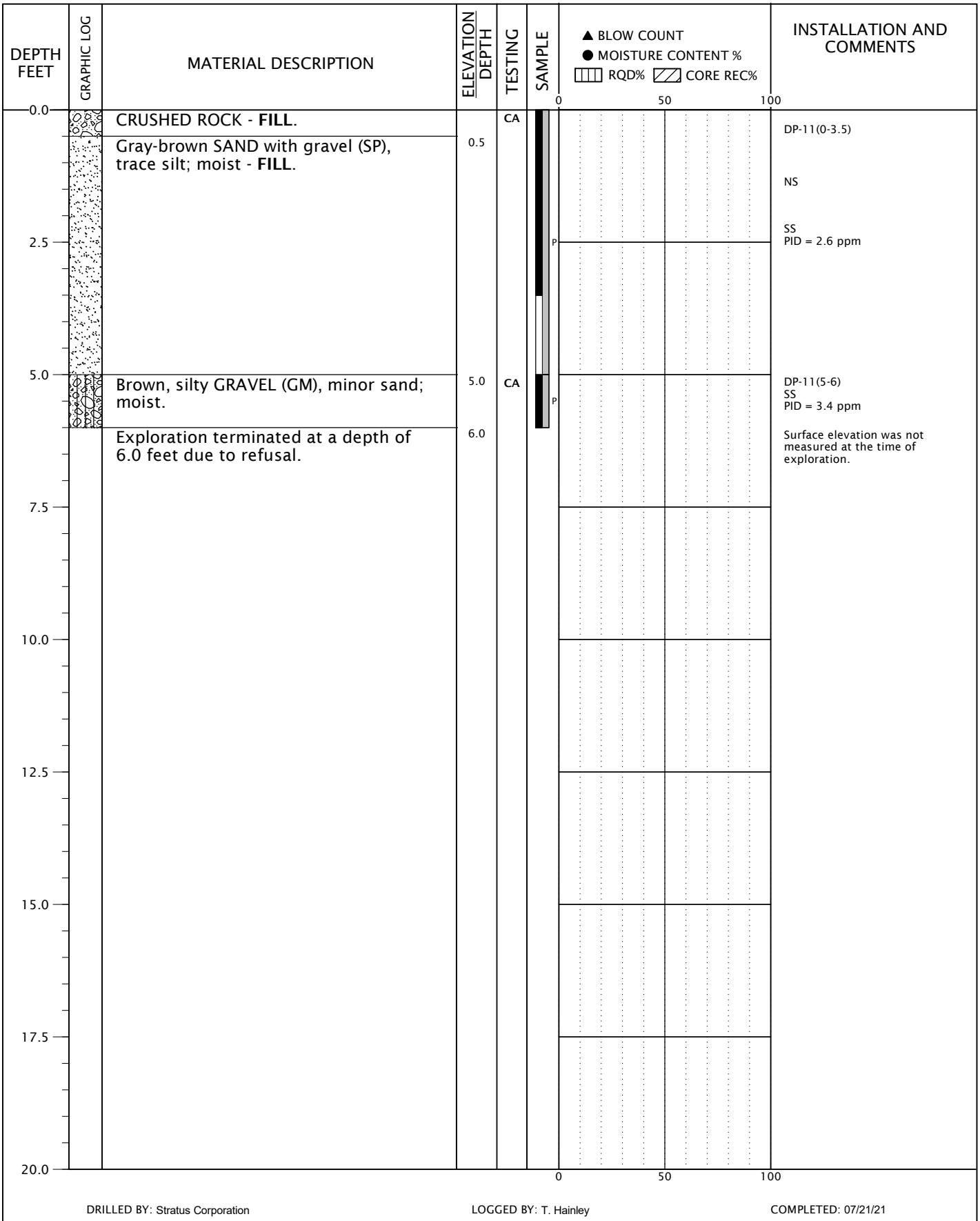
COMPLETED: 07/21/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-10**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-10

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

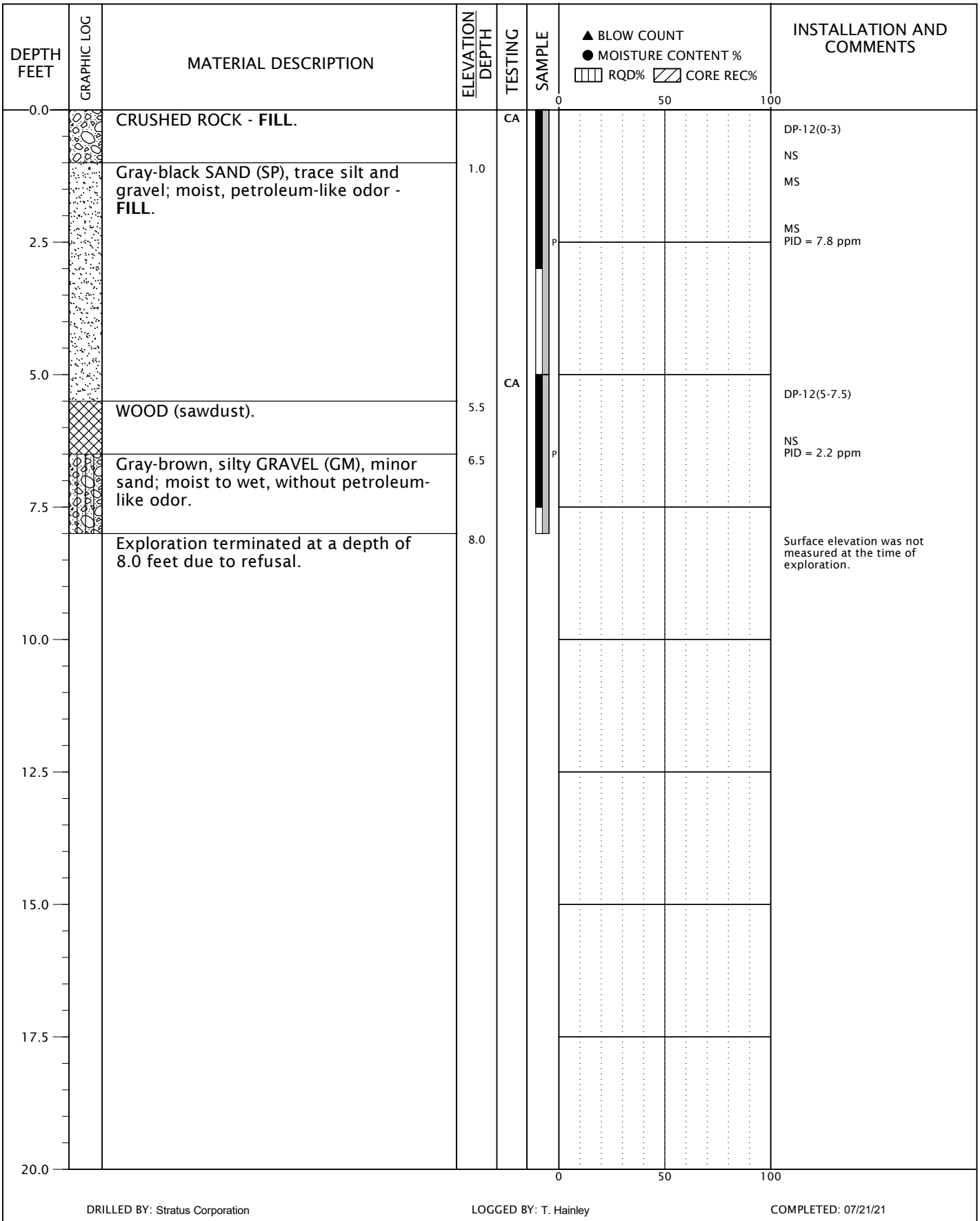
COMPLETED: 07/21/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-11**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-11

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

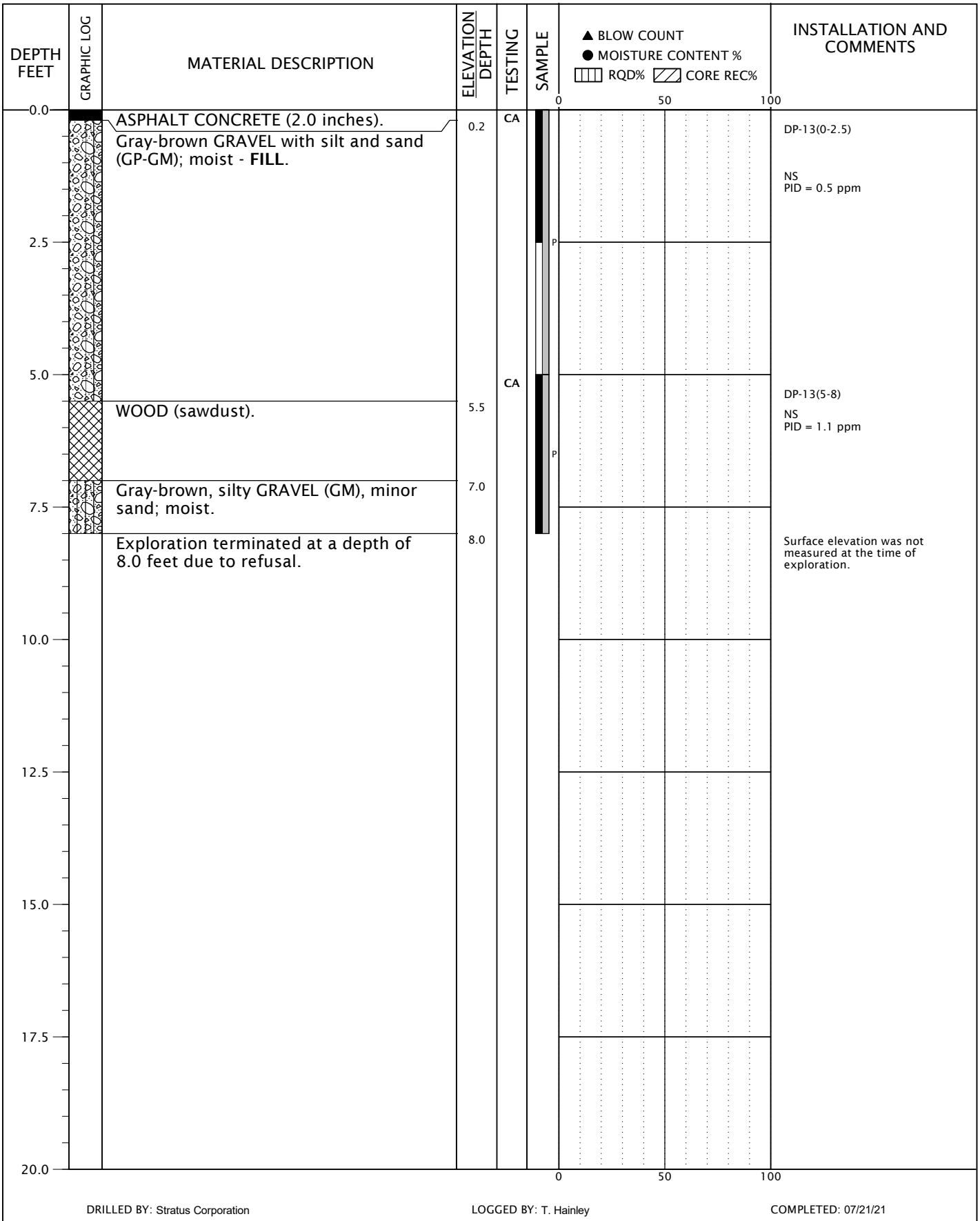
COMPLETED: 07/21/21

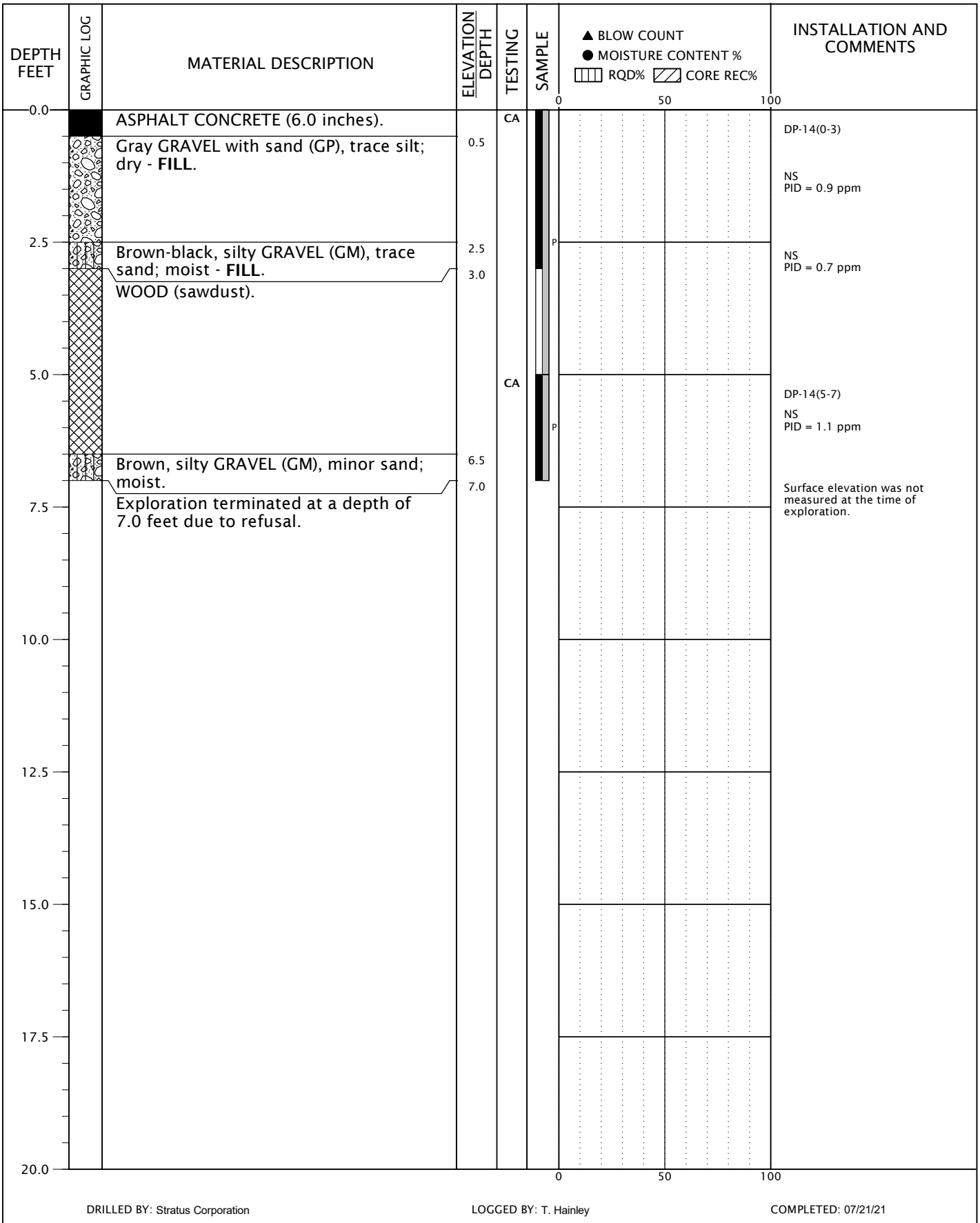
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-12**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-12

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT


DEPTH FEET
GRAPHIC LOG
MATERIAL DESCRIPTION
ELEVATION DEPTH
TESTING
SAMPLE
▲ BLOW COUNT
● MOISTURE CONTENT %
RQD% CORE REC%
INSTALLATION AND COMMENTS
0
50
100
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
ASPHALT CONCRETE (2.0 inches).
0.2
Gray-brown GRAVEL with silt and sand (GP-GM); moist - FILL.
CA
DP-13(0-2.5)
NS
PID = 0.5 ppm
P
WOOD (sawdust).
5.5
CA
DP-13(5-8)
NS
PID = 1.1 ppm
P
Gray-brown, silty GRAVEL (GM), minor sand; moist.
7.0
Exploration terminated at a depth of 8.0 feet due to refusal.
8.0
Surface elevation was not measured at the time of exploration.
DRILLED BY: Stratus Corporation
LOGGED BY: T. Hainley
COMPLETED: 07/21/21
BORING METHOD: direct push (see document text)
BORING BIT DIAMETER: 2 1/4 inches
STHELENS-3-02
BORING DP-13
JANUARY 2022
1ST AND STRAND STREETS
ST. HELENS, OR
FIGURE A-13
BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/21/21

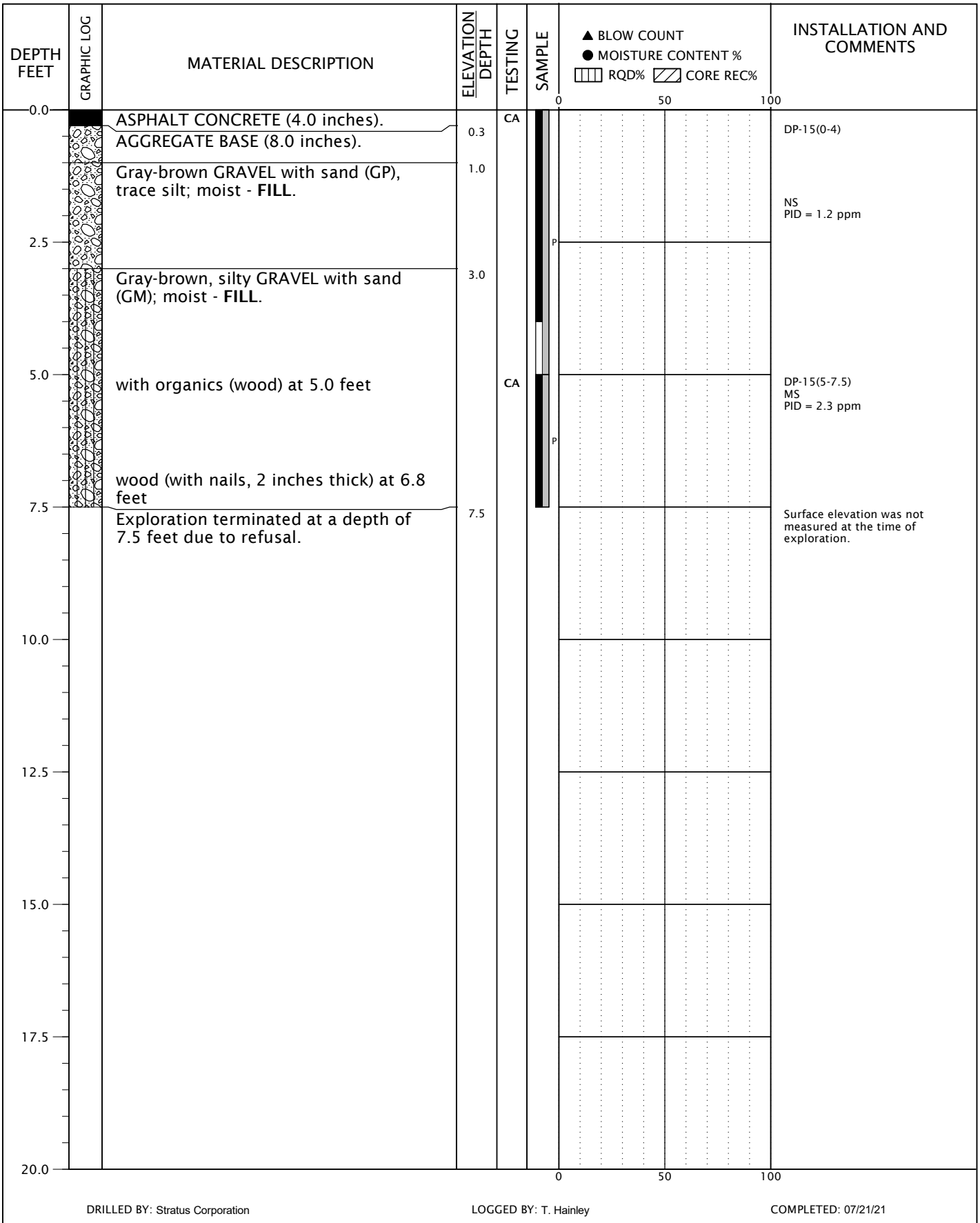
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-14**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR

FIGURE A-14

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

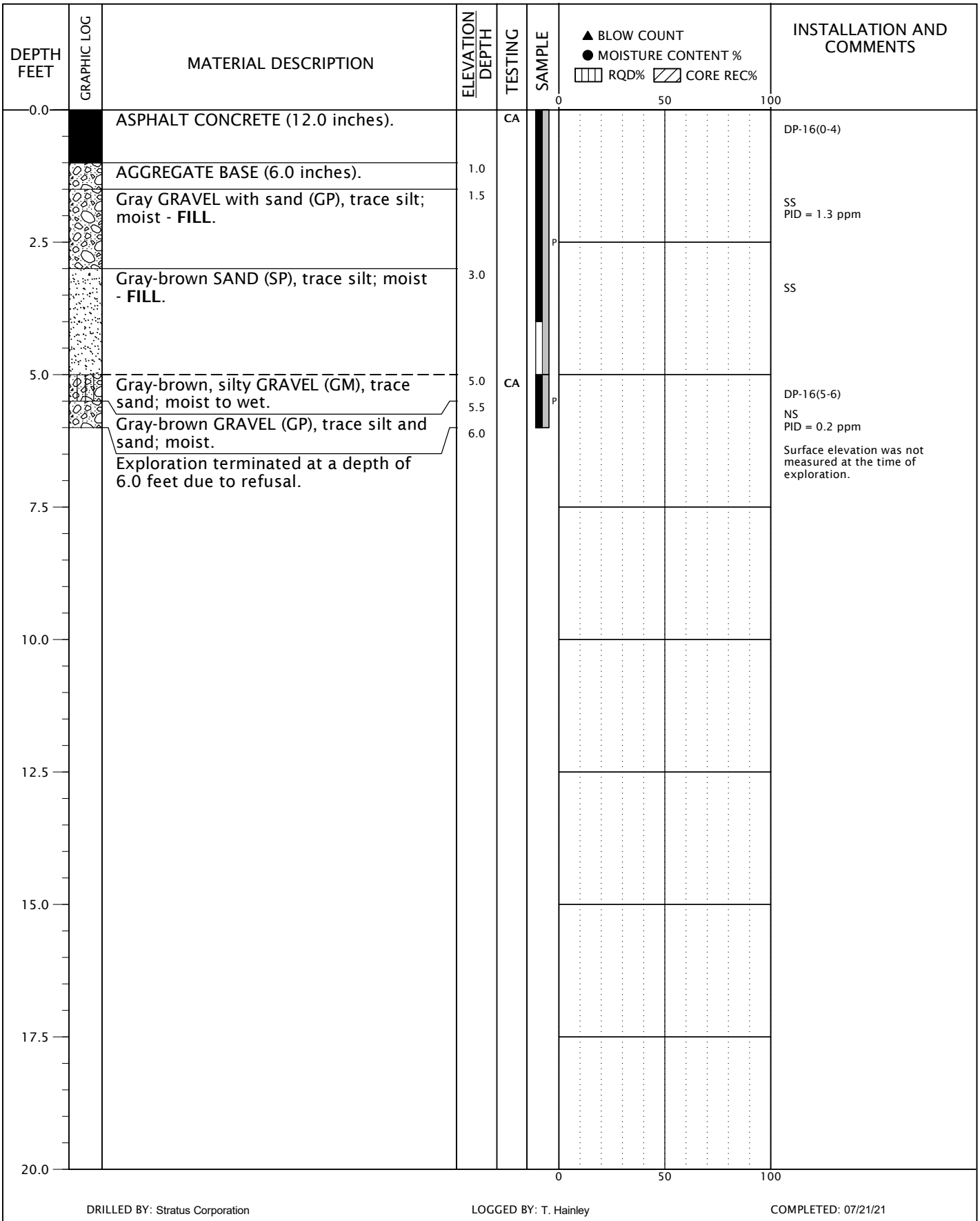
COMPLETED: 07/21/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-15**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-15

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

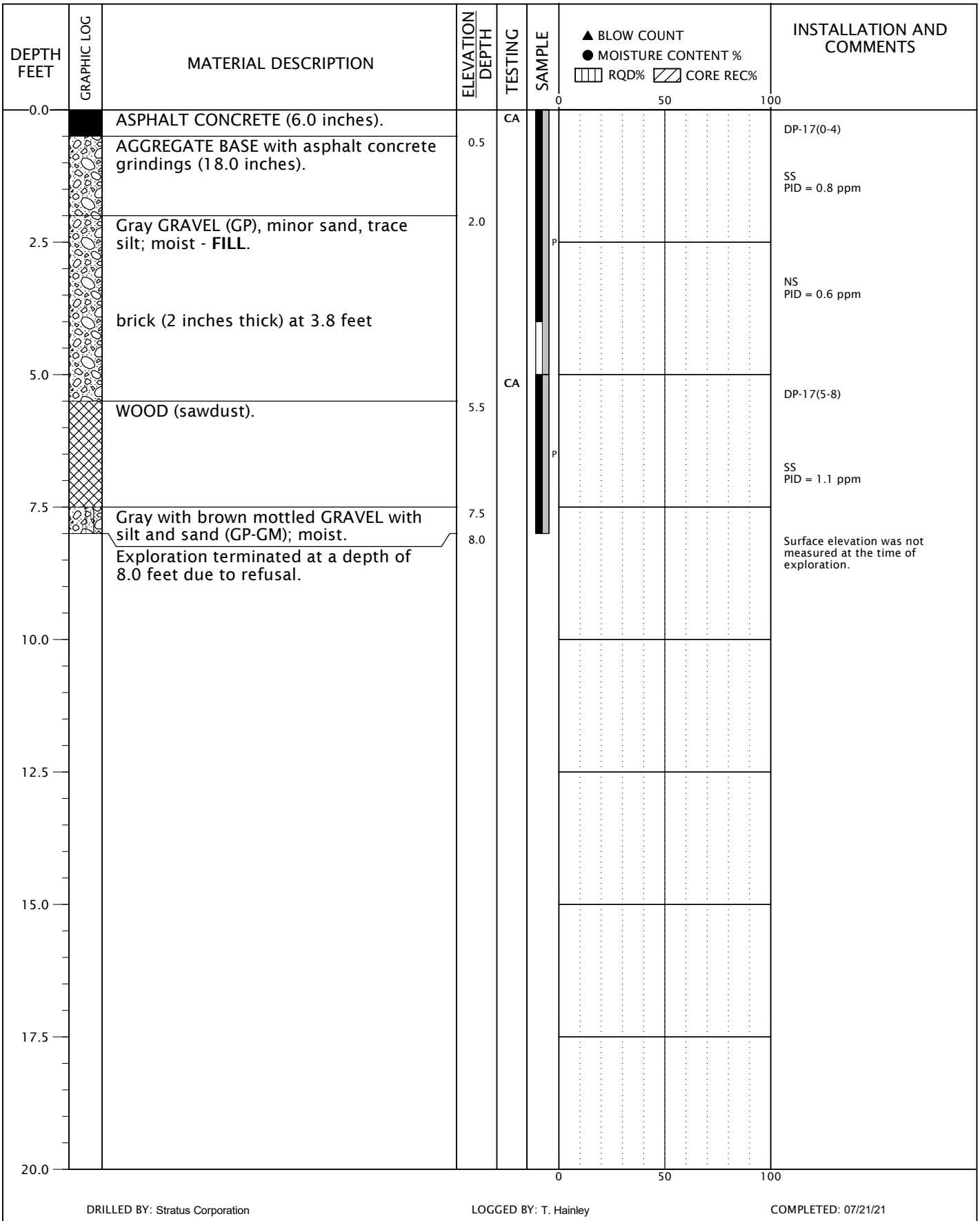
COMPLETED: 07/21/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-16**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-16

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/21/21

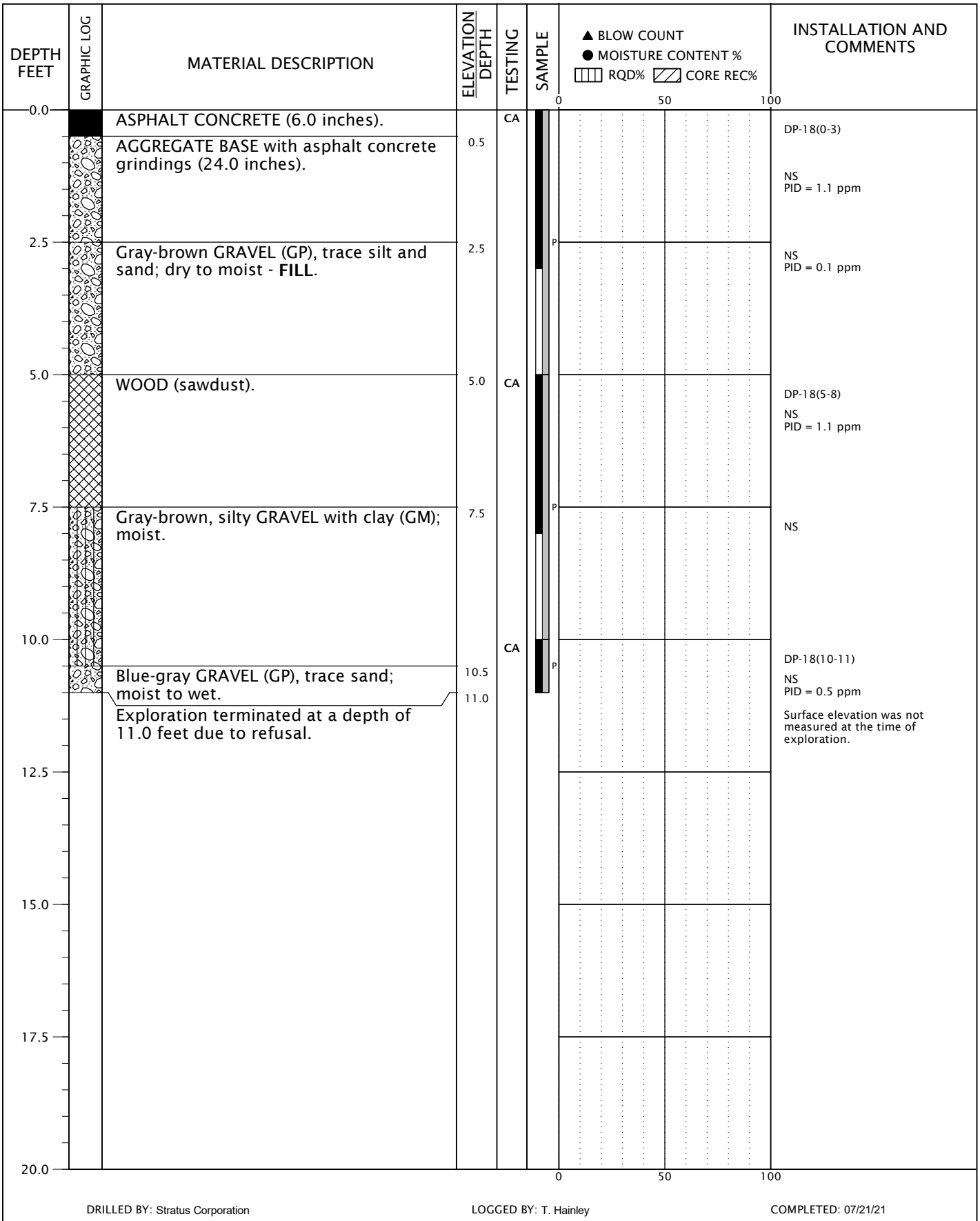
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-17**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR

FIGURE A-17

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/21/21

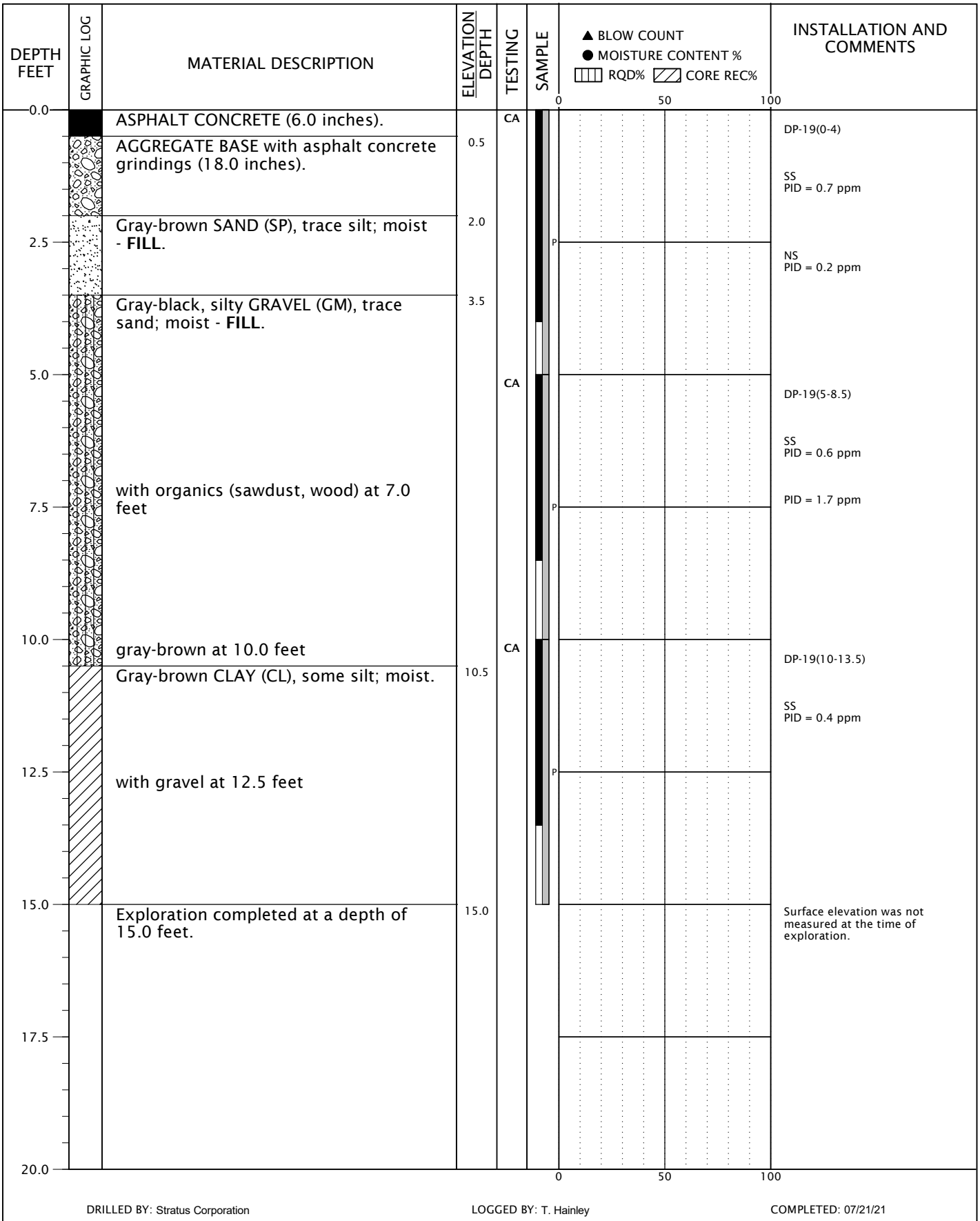
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-18**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR

FIGURE A-18

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/21/21

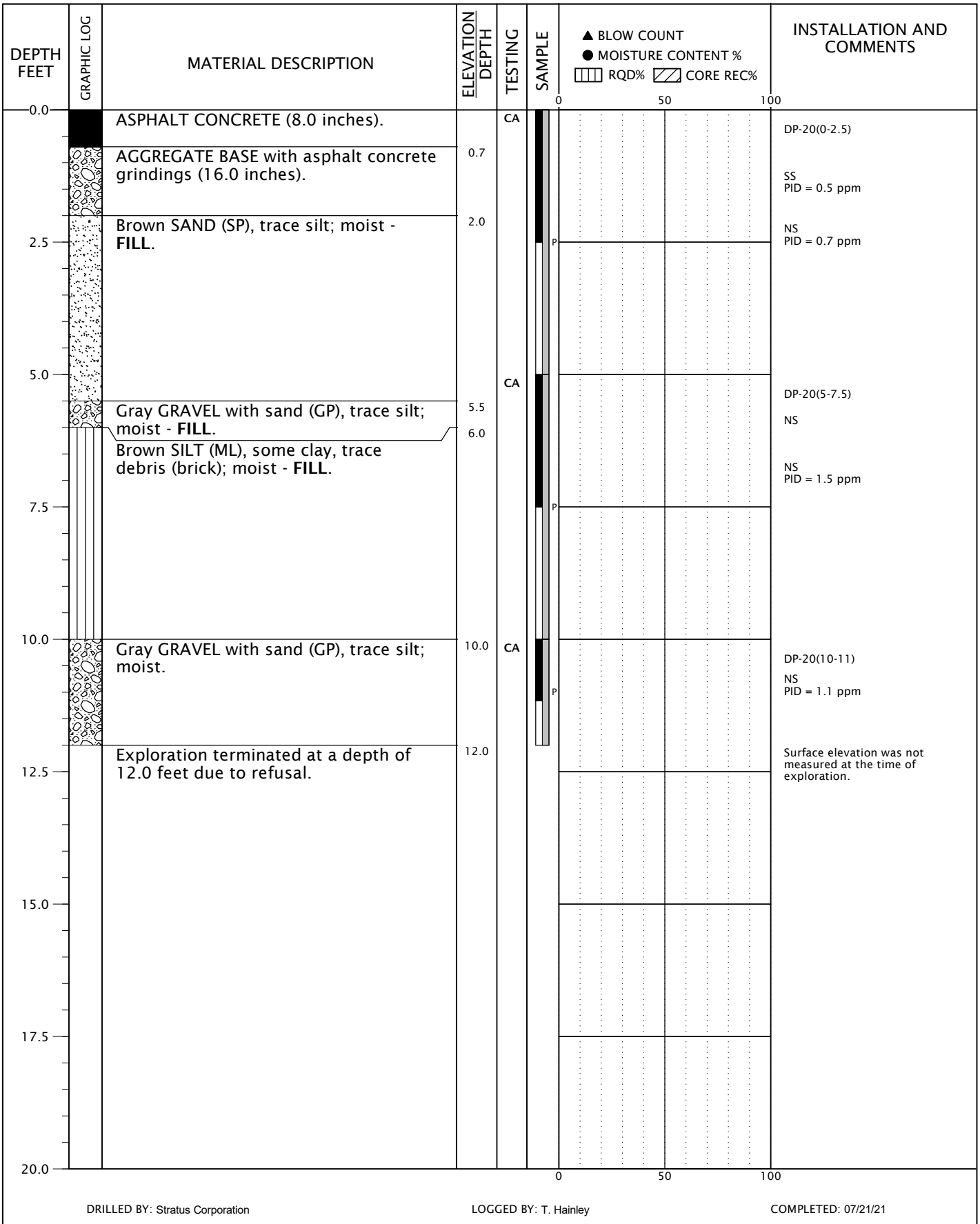
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-19**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR

FIGURE A-19

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/21/21

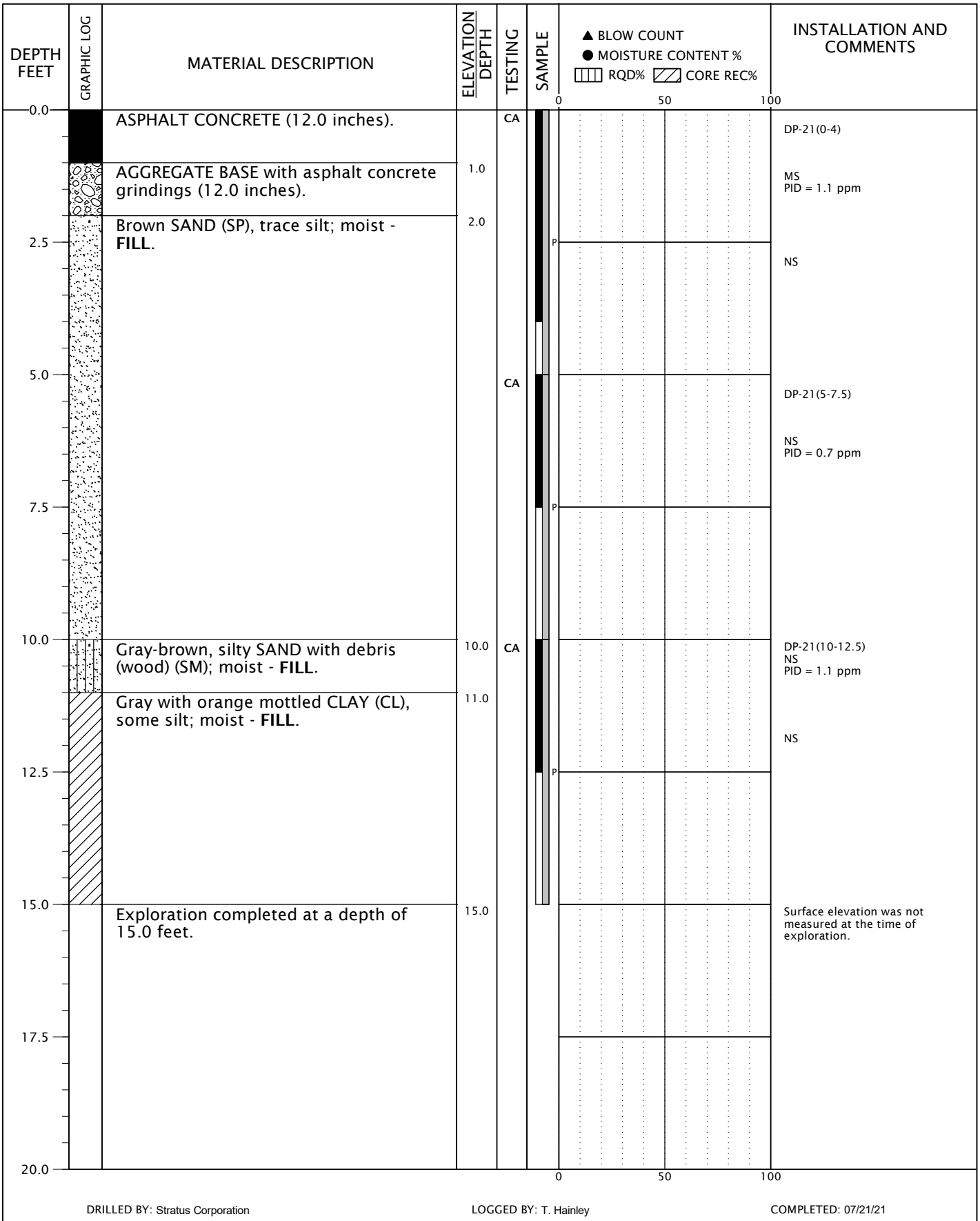
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-20**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR

FIGURE A-20

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/21/21

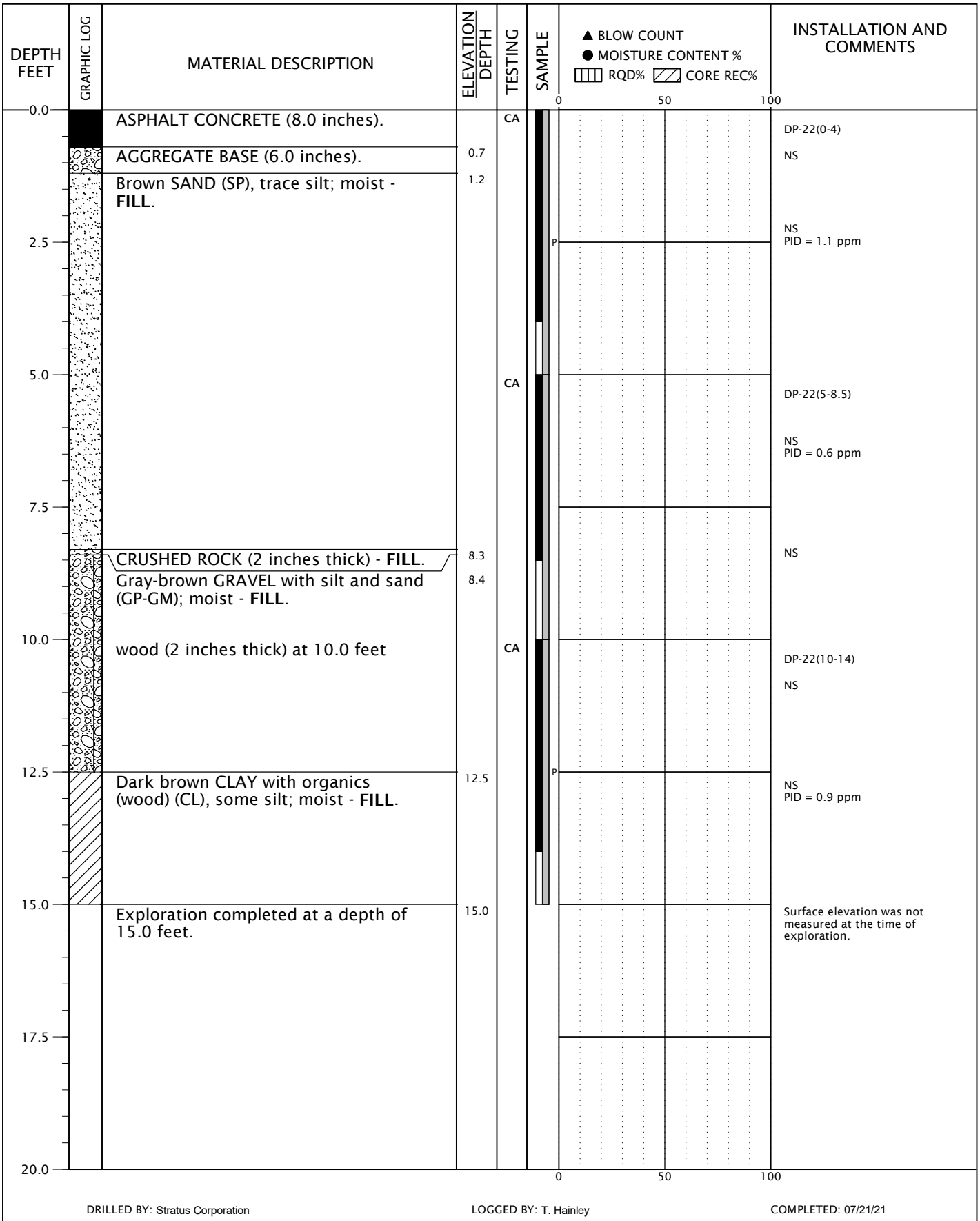
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-21**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR

FIGURE A-21

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

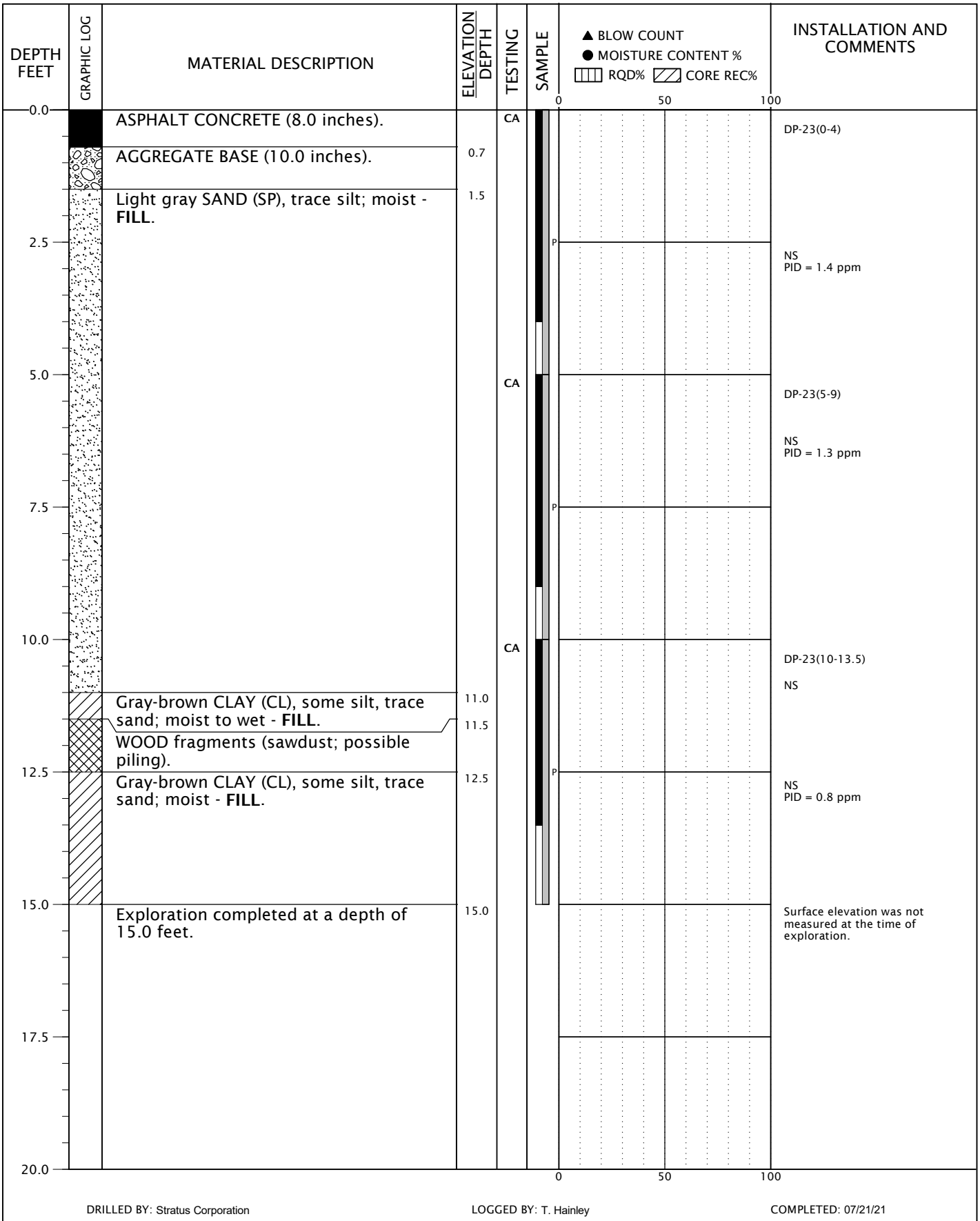
COMPLETED: 07/21/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-22**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-22

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

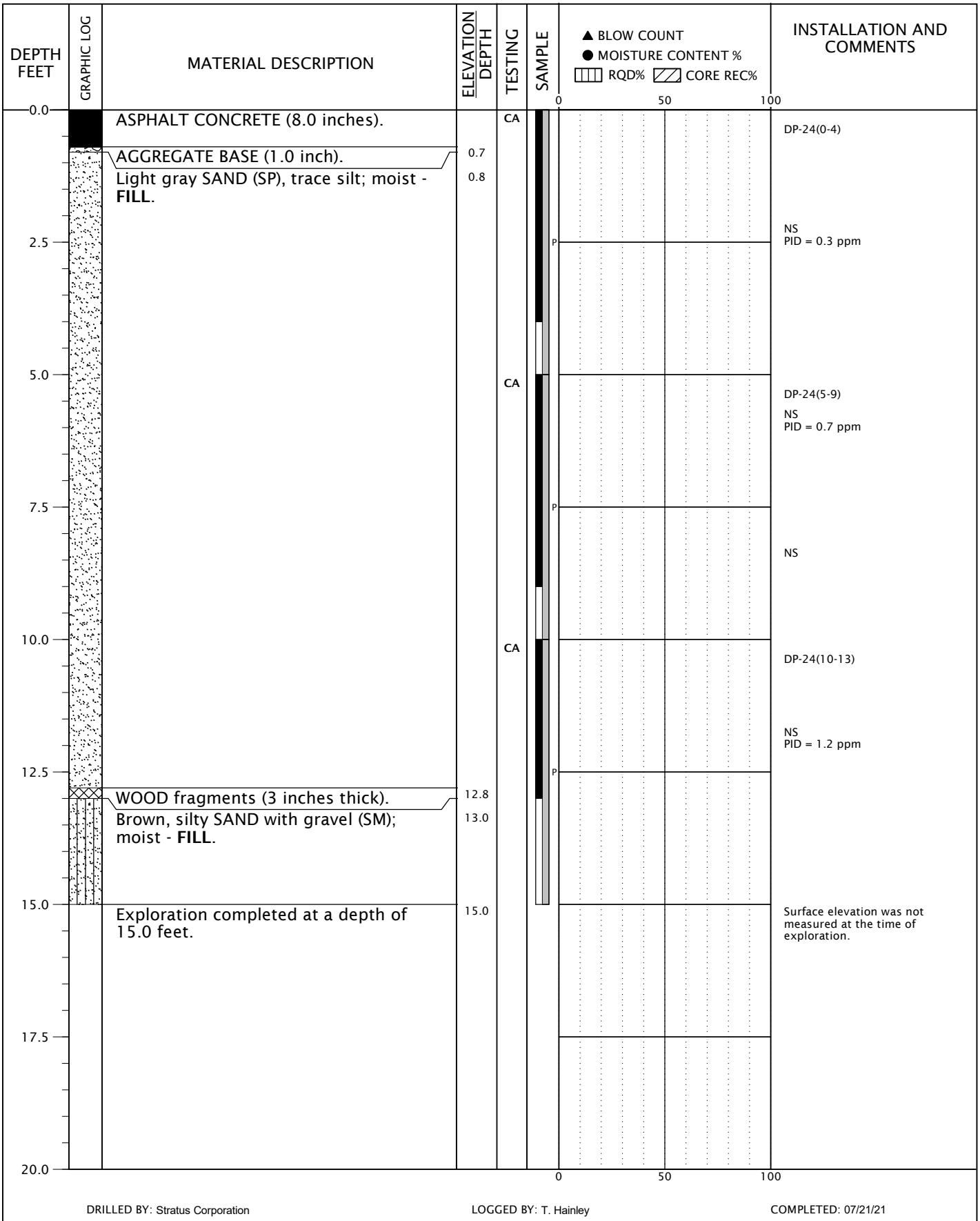
COMPLETED: 07/21/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-23**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-23

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/21/21

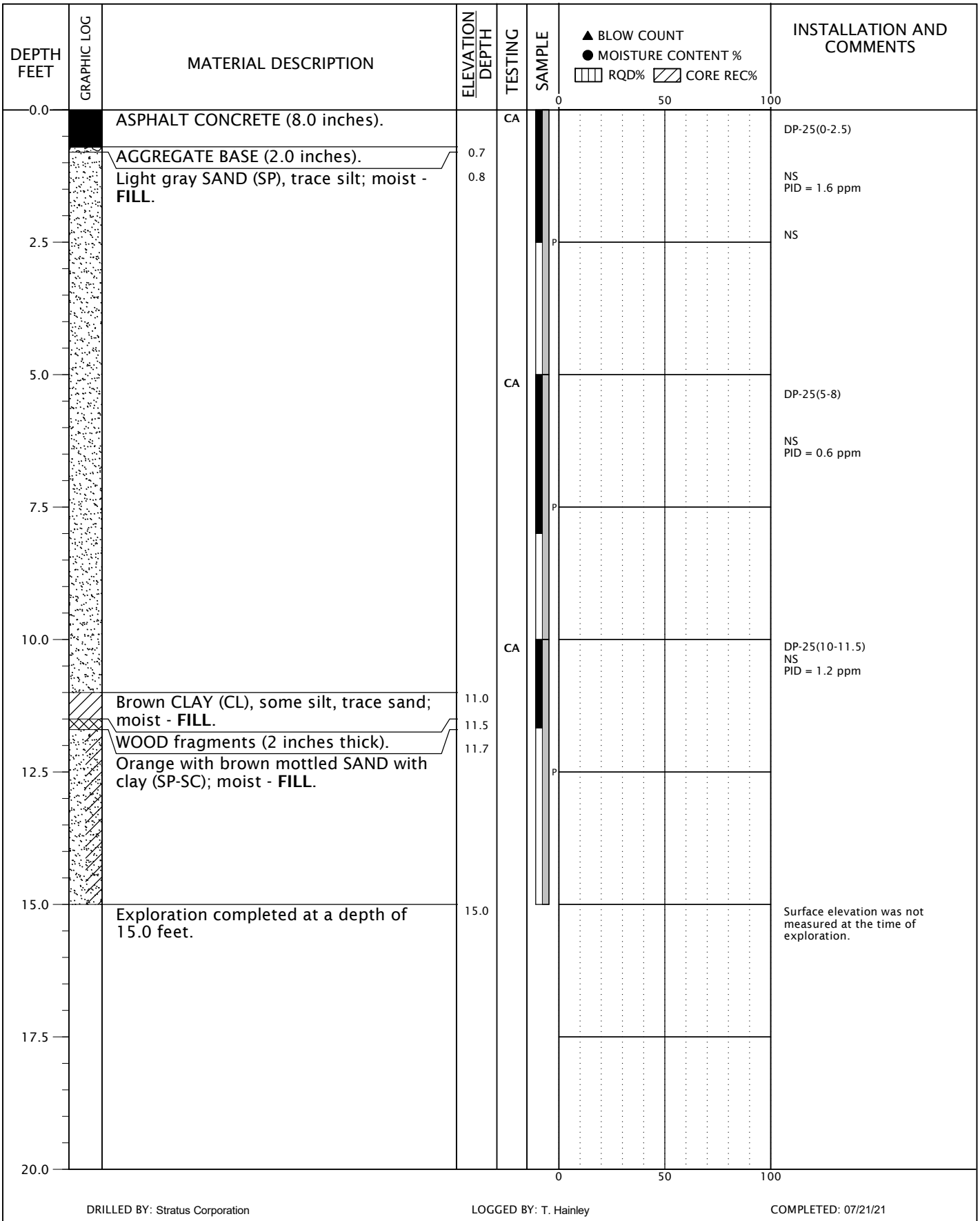
BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

NV5	STHELENS-3-02	**BORING DP-24**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR

FIGURE A-24

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

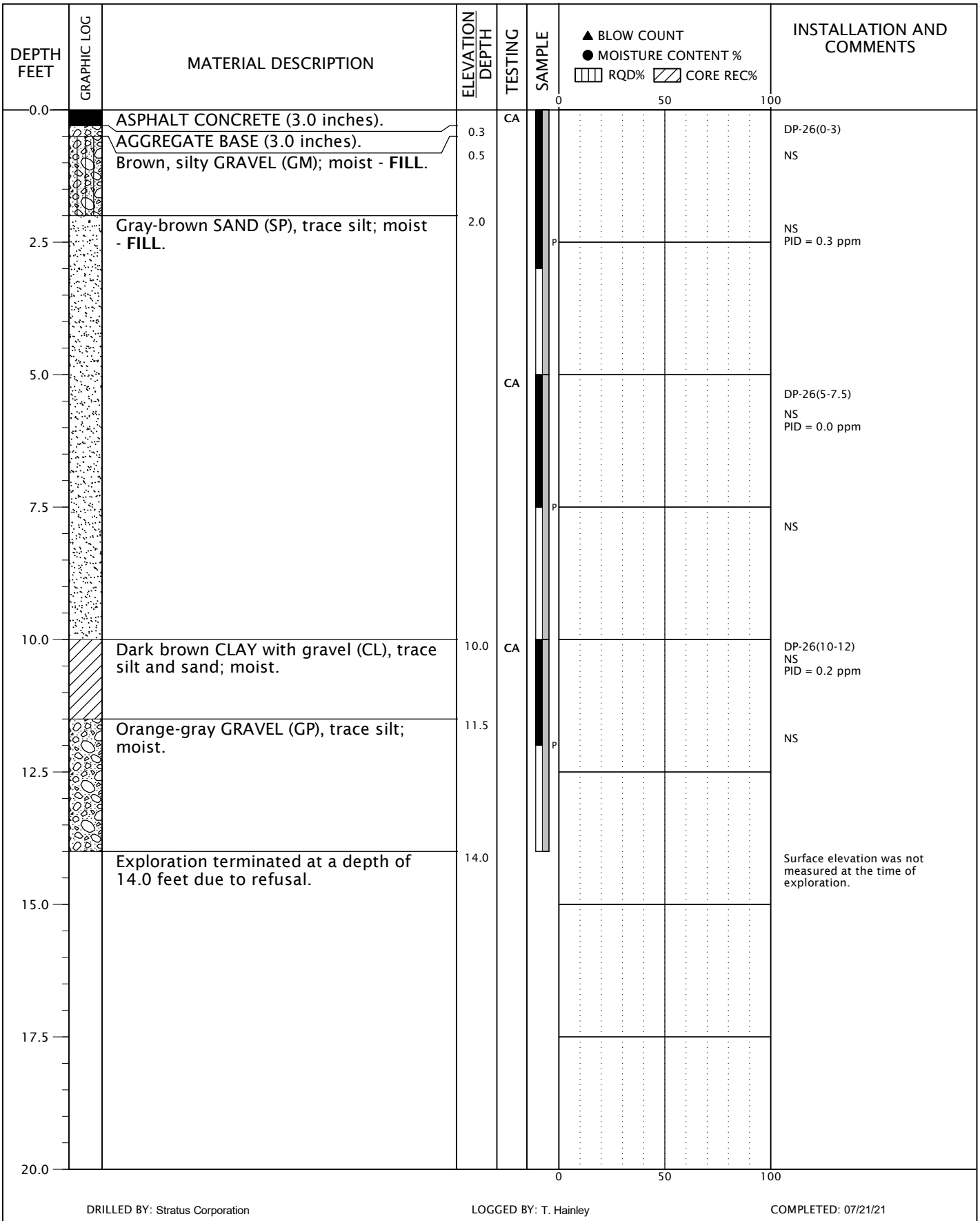
COMPLETED: 07/21/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-25**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-25

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT



DRILLED BY: Stratus Corporation

LOGGED BY: T. Hainley

COMPLETED: 07/21/21

BORING METHOD: direct push (see document text)

BORING BIT DIAMETER: 2 1/4 inches

N|V|5	STHELENS-3-02	**BORING DP-26**
	JANUARY 2022	1ST AND STRAND STREETS ST. HELENS, OR
		FIGURE A-26

BORING LOG - NV5 - 1 PER PAGE STHELENS-3-02-DP1_26.GPJ GDI_NV5.GDT PRINT DATE: 1/7/22:KT

APPENDIX B

APPENDIX B

CHEMICAL ANALYTICAL PROGRAM

GENERAL

Chain-of-custody procedures were followed during handling and transport of the soil samples to the analytical laboratory. The laboratory holds the samples in cold storage pending extraction and/or analysis. The analytical results, analytical methods reference, and laboratory QC records are presented in this appendix. The analytical results also are summarized in the tables of this report.

REVIEW OF ANALYTICAL DATA

The analytical laboratories used for this project maintain an internal quality assurance programs consisting of a combination of the following:

Blanks: Blanks are laboratory-prepared water samples that are free of contaminants. The blanks are carried through the analysis procedure along with the field samples to document that contaminants were not introduced to the samples during sample handling and analysis.

Surrogate Recoveries: Surrogates are organic compounds that are similar in nature to the analytes of concern but are not normally found in nature. The surrogates are added to QC and field samples prior to analysis. The percent recovery of the surrogate is calculated to demonstrate acceptable method performance.

Duplicates: Duplicates are obtained by splitting a sample into two parts. The two separate parts are carried through the analyses. The analytical results are then compared by calculating the RPD between the samples.

MS/MSD Recoveries: An MS sample is a sample that has been split into a second portion. The MSD is obtained by further splitting the MS sample. A known concentration of the analyte of interest is added to the MS and MSD samples. The analytical results for both samples are then compared for RPD and percent recovery to demonstrate acceptable method performance.

BS/BSD Recoveries: BS and BSD samples are obtained and analyzed in the same procedure as the MS/MSD samples; however, the laboratory blank sample is used to obtain the BS/BSD samples. The percent recovery and RPD of the known concentration of analyte of interest added to the BS/BSD sample is calculated after chemical analyses to demonstrate acceptable method performance.

SUMMARY OF ANALYTICAL DATA REVIEW

NV5 reviewed the attached analytical data reports for data quality exceptions and deviations from acceptable method performance criteria. Based on the review, the analytical data appear acceptable for their intended use.

ANALYTICAL REPORT

August 04, 2021

NV5 - Wilsonville, OR

Sample Delivery Group:	L1382341
Samples Received:	07/23/2021
Project Number:	StHelens-3-02
Description:	

Report To: Kyle Haggart
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Entire Report Reviewed By:

Kelly Mercer
Project Manager

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

DP-1(0-2.5) L1382341-01 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 11:00 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714173	1	07/29/21 16:05	07/29/21 16:10	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 18:44	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 18:26	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 08:07	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713321	1	07/28/21 15:35	07/29/21 23:13	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/28/21 18:57	BJP	Mt. Juliet, TN

DP-2(0-3) L1382341-02 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 10:40 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714173	1	07/29/21 16:05	07/29/21 16:10	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 18:51	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 18:30	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 07:12	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713321	1	07/28/21 15:35	07/29/21 23:23	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 01:37	BJP	Mt. Juliet, TN

DP-3(0-3) L1382341-03 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 10:15 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714173	1	07/29/21 16:05	07/29/21 16:10	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 18:54	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 18:34	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	20	07/28/21 15:56	07/30/21 11:22	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713321	1	07/28/21 15:35	07/29/21 23:34	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 02:47	AAT	Mt. Juliet, TN

DP-4(0-3) L1382341-04 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 09:55 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714173	1	07/29/21 16:05	07/29/21 16:10	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 18:56	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 18:09	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 09:03	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713321	1	07/28/21 15:35	07/29/21 23:45	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 03:50	AAT	Mt. Juliet, TN

DP-4(5-6) L1382341-05 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 10:00 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714173	1	07/29/21 16:05	07/29/21 16:10	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 18:59	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 18:46	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	2	07/28/21 15:56	07/30/21 09:44	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713321	1	07/28/21 15:35	07/29/21 23:55	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 01:00	AAT	Mt. Juliet, TN

DP-5(0-3) L1382341-06 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 09:30 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714173	1	07/29/21 16:05	07/29/21 16:10	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 19:02	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 18:50	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	2	07/28/21 15:56	07/30/21 09:58	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713321	1	07/28/21 15:35	07/30/21 00:06	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 01:18	AAT	Mt. Juliet, TN

DP-5(5-6) L1382341-07 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 09:35 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714173	1	07/29/21 16:05	07/29/21 16:10	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 19:04	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 18:53	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 09:16	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713321	1	07/28/21 15:35	07/30/21 00:16	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 01:55	BJP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	20	07/28/21 14:43	07/29/21 22:29	LEA	Mt. Juliet, TN

DP-6(0-3.5) L1382341-08 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 09:00 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714173	1	07/29/21 16:05	07/29/21 16:10	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 19:07	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 18:57	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	10	07/28/21 15:56	07/30/21 10:40	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 12:30	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 02:11	AAT	Mt. Juliet, TN

DP-6(5-7) L1382341-09 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 09:05 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714173	1	07/29/21 16:05	07/29/21 16:10	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 19:20	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:00	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 07:40	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 12:56	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 02:12	BJP	Mt. Juliet, TN

DP-7(0-3) L1382341-10 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 08:25 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714174	1	07/29/21 15:58	07/29/21 16:02	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:13	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:04	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 06:45	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 13:23	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 02:30	BJP	Mt. Juliet, TN

DP-7(5-7) L1382341-11 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 08:30 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714174	1	07/29/21 15:58	07/29/21 16:02	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:20	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:07	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 07:26	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 13:32	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 04:29	AAT	Mt. Juliet, TN

DP-8(0-3.5) L1382341-12 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 07:55 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714174	1	07/29/21 15:58	07/29/21 16:02	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:23	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:11	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 08:49	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 13:41	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 02:47	BJP	Mt. Juliet, TN

DP-8(5-8) L1382341-13 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 08:00 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714174	1	07/29/21 15:58	07/29/21 16:02	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:25	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:14	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 06:17	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 13:49	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 03:04	BJP	Mt. Juliet, TN

DP-9(0-4) L1382341-14 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 07:35 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714174	1	07/29/21 15:58	07/29/21 16:02	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:28	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:18	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 07:53	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 13:58	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 03:22	BJP	Mt. Juliet, TN

DP-9(5-7.5) L1382341-15 Solid

Collected by: Tim Hainley | Collected date/time: 07/22/21 07:40 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714174	1	07/29/21 15:58	07/29/21 16:02	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:31	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:34	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 06:31	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 14:07	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 03:10	AAT	Mt. Juliet, TN

DP-10(0-4) L1382341-16 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 16:10 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714174	1	07/29/21 15:58	07/29/21 16:02	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:33	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:38	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	10	07/28/21 15:56	07/30/21 10:54	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 14:16	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 01:53	AAT	Mt. Juliet, TN

DP-10(5-8) L1382341-17 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 16:15 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714174	1	07/29/21 15:58	07/29/21 16:02	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:36	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:42	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	1	07/28/21 15:56	07/30/21 06:58	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 14:25	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 03:30	AAT	Mt. Juliet, TN

DP-11(0-3.5) L1382341-18 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 16:35 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714174	1	07/29/21 15:58	07/29/21 16:02	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:38	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:45	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	20	07/28/21 15:56	07/30/21 11:35	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 14:34	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 02:29	AAT	Mt. Juliet, TN

DP-11(5-6) L1382341-19 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 16:45 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714174	1	07/29/21 15:58	07/29/21 16:02	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713405	1	07/29/21 11:55	07/29/21 17:28	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:48	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	10	07/28/21 15:56	07/30/21 10:26	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 14:43	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713329	1	07/28/21 14:43	07/29/21 01:35	AAT	Mt. Juliet, TN

DP-12(0-3) L1382341-20 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 15:45 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714176	1	07/29/21 15:52	07/29/21 15:56	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713405	1	07/29/21 11:55	07/29/21 17:30	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713652	5	07/29/21 06:06	07/29/21 19:53	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713304	10	07/28/21 15:56	07/30/21 10:12	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 14:52	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 02:19	AAT	Mt. Juliet, TN

DP-12(5-7.5) L1382341-21 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 15:55 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714176	1	07/29/21 15:52	07/29/21 15:56	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713405	1	07/29/21 11:55	07/29/21 17:33	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 11:39	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	10	07/28/21 23:17	07/30/21 02:51	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 15:00	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/28/21 22:20	AAT	Mt. Juliet, TN

DP-13(0-2.5) L1382341-22 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 15:30 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714176	1	07/29/21 15:52	07/29/21 15:56	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713405	1	07/29/21 11:55	07/29/21 17:36	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 11:43	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	20	07/28/21 23:17	07/30/21 03:46	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 15:09	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 04:58	AAT	Mt. Juliet, TN

DP-13(5-8) L1382341-23 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 15:35 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714176	1	07/29/21 15:52	07/29/21 15:56	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713405	1	07/29/21 11:55	07/29/21 17:38	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 11:46	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/30/21 00:47	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 15:18	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/28/21 22:40	AAT	Mt. Juliet, TN

DP-14(0-3) L1382341-24 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 15:05 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714176	1	07/29/21 15:52	07/29/21 15:56	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713405	1	07/29/21 11:55	07/29/21 17:41	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 11:59	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	2	07/28/21 23:17	07/30/21 01:42	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 15:27	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 01:59	AAT	Mt. Juliet, TN

DP-14(5-7) L1382341-25 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 15:10 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714176	1	07/29/21 15:52	07/29/21 15:56	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713405	1	07/29/21 11:55	07/29/21 17:43	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:02	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	2	07/28/21 23:17	07/30/21 01:00	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 15:36	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/28/21 23:00	AAT	Mt. Juliet, TN

DP-15(0-4) L1382341-26 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 14:30 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714176	1	07/29/21 15:52	07/29/21 15:56	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713405	1	07/29/21 11:55	07/29/21 17:50	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 11:23	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/30/21 00:05	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 15:44	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/28/21 23:20	AAT	Mt. Juliet, TN

DP-15(5-7.5) L1382341-27 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 14:35 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714176	1	07/29/21 15:52	07/29/21 15:56	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713405	50	07/29/21 10:35	07/29/21 19:17	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:05	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	100	07/28/21 23:17	07/30/21 15:52	WCR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	20	07/28/21 23:17	07/30/21 03:32	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713323	1	07/28/21 15:11	07/29/21 15:53	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 03:18	AAT	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	20	07/28/21 15:02	07/29/21 10:05	AAT	Mt. Juliet, TN

DP-16(0-4) L1382341-28 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 13:55 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714176	1	07/29/21 15:52	07/29/21 15:56	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713405	1	07/29/21 10:35	07/29/21 17:56	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:08	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/30/21 01:28	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 19:32	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 00:00	AAT	Mt. Juliet, TN

DP-16(5-6) L1382341-29 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 14:00 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714176	1	07/29/21 15:52	07/29/21 15:56	CMK	Mt. Juliet, TN
Mercury by Method 7471B	WG1713405	1	07/29/21 10:35	07/29/21 17:58	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:12	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/30/21 01:14	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/30/21 17:45	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/28/21 23:40	AAT	Mt. Juliet, TN

DP-17(0-4) L1382341-30 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 13:30 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714177	1	07/29/21 16:03	07/29/21 16:44	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713405	1	07/29/21 10:35	07/29/21 18:01	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:15	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/30/21 01:56	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 19:52	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 03:58	AAT	Mt. Juliet, TN

DP-17(5-8) L1382341-31 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 13:35 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714177	1	07/29/21 16:03	07/29/21 16:44	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713405	1	07/29/21 10:35	07/29/21 18:03	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:18	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/29/21 23:38	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1715433	1	08/01/21 16:55	08/03/21 01:04	HLJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 00:20	AAT	Mt. Juliet, TN

DP-18(0-3) L1382341-32 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 12:55 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714177	1	07/29/21 16:03	07/29/21 16:44	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713405	1	07/29/21 10:35	07/29/21 18:06	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:21	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	200	07/28/21 23:17	07/30/21 04:13	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 20:02	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 04:38	AAT	Mt. Juliet, TN

DP-18(5-8) L1382341-33 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 13:00 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714177	1	07/29/21 16:03	07/29/21 16:44	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713405	1	07/29/21 10:35	07/29/21 18:08	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:25	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/29/21 23:24	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 20:12	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 00:39	AAT	Mt. Juliet, TN

DP-18(10-11) L1382341-34 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 13:05 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714177	1	07/29/21 16:03	07/29/21 16:44	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713405	1	07/29/21 10:35	07/29/21 18:11	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:28	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/29/21 22:56	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 20:22	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 00:59	AAT	Mt. Juliet, TN

DP-19(0-4) L1382341-35 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 12:20 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714177	1	07/29/21 16:03	07/29/21 16:44	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:05	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:40	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/30/21 02:09	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 20:32	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 04:18	AAT	Mt. Juliet, TN

DP-19(5-8.5) L1382341-36 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 12:25 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714177	1	07/29/21 16:03	07/29/21 16:44	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:41	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:44	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/30/21 02:23	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/30/21 10:28	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 03:38	AAT	Mt. Juliet, TN

DP-19(10-13.5) L1382341-37 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 12:30 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714177	1	07/29/21 16:03	07/29/21 16:44	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:43	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:47	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/29/21 23:10	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 20:52	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 01:19	AAT	Mt. Juliet, TN

DP-20(0-2.5) L1382341-38 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 11:45 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714177	1	07/29/21 16:03	07/29/21 16:44	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:51	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:50	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	40	07/28/21 23:17	07/30/21 04:27	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 21:03	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 05:18	AAT	Mt. Juliet, TN

DP-20(5-7.5) L1382341-39 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 11:50 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714177	1	07/29/21 16:03	07/29/21 16:44	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:53	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:53	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	1	07/28/21 23:17	07/29/21 23:51	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/30/21 10:51	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713331	1	07/28/21 15:02	07/29/21 01:39	AAT	Mt. Juliet, TN

DP-20(10-11) L1382341-40 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 11:55 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714178	1	07/29/21 15:57	07/29/21 16:02	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:56	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713654	5	07/29/21 06:08	07/30/21 12:57	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713306	20	07/28/21 23:17	07/30/21 03:18	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 21:23	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/28/21 23:26	AAT	Mt. Juliet, TN

DP-21(0-4) L1382341-41 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 10:50 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714178	1	07/29/21 15:57	07/29/21 16:02	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 16:58	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 20:33	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 19:31	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 21:33	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/28/21 23:46	AAT	Mt. Juliet, TN

DP-21(5-7.5) L1382341-42 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 10:55 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714178	1	07/29/21 15:57	07/29/21 16:02	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 17:01	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 20:16	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 17:40	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 21:43	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 00:06	AAT	Mt. Juliet, TN

DP-21(10-12.5) L1382341-43 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 11:05 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714178	1	07/29/21 15:57	07/29/21 16:02	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 17:03	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 20:36	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 17:54	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 21:53	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 00:26	AAT	Mt. Juliet, TN

DP-22(0-4) L1382341-44 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 10:20 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714178	1	07/29/21 15:57	07/29/21 16:02	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 17:06	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 20:40	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 18:50	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 22:03	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 00:46	AAT	Mt. Juliet, TN

DP-22(5-8.5) L1382341-45 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 10:25 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714178	1	07/29/21 15:57	07/29/21 16:02	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713533	1	07/29/21 10:32	07/29/21 17:08	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 20:49	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 16:03	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 22:13	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 01:06	AAT	Mt. Juliet, TN

DP-22(10-14) L1382341-46 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 10:35 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714178	1	07/29/21 15:57	07/29/21 16:02	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 19:27	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 20:53	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 16:30	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 22:23	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 02:06	AAT	Mt. Juliet, TN

DP-23(0-4) L1382341-47 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 09:55 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714178	1	07/29/21 15:57	07/29/21 16:02	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 19:30	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 20:56	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 19:17	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713675	1	07/29/21 07:51	07/29/21 22:33	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 02:26	AAT	Mt. Juliet, TN

DP-23(5-9) L1382341-48 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 10:00 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714178	1	07/29/21 15:57	07/29/21 16:02	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 19:32	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 20:59	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 17:12	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713676	1	07/29/21 12:51	07/30/21 11:55	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 02:47	AAT	Mt. Juliet, TN

DP-23(10-13.5) L1382341-49 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 10:05 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714178	1	07/29/21 15:57	07/29/21 16:02	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 19:35	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 21:02	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 16:44	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713676	1	07/29/21 12:51	07/29/21 23:44	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 03:07	AAT	Mt. Juliet, TN

DP-24(0-4) L1382341-50 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 09:30 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714179	1	07/29/21 18:05	07/29/21 18:09	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713871	1	07/29/21 10:43	07/29/21 19:37	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 21:06	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 17:26	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713676	1	07/29/21 12:51	07/29/21 23:54	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 03:27	AAT	Mt. Juliet, TN

DP-24(5-9) L1382341-51 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 09:35 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714179	1	07/29/21 18:05	07/29/21 18:09	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713369	1	07/29/21 10:38	07/29/21 15:33	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 21:09	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 16:17	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713676	1	07/29/21 12:51	07/30/21 00:04	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 03:47	AAT	Mt. Juliet, TN

DP-24(10-13) L1382341-52 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 09:40 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714179	1	07/29/21 18:05	07/29/21 18:09	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713369	1	07/29/21 10:38	07/29/21 15:35	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 21:12	JPD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 16:58	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713676	1	07/29/21 12:51	07/30/21 00:14	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 04:07	AAT	Mt. Juliet, TN

DP-25(0-2.5) L1382341-53 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 09:00 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714179	1	07/29/21 18:05	07/29/21 18:09	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713369	1	07/29/21 10:38	07/29/21 15:38	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 21:23	LAT	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 19:04	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713676	1	07/29/21 12:51	07/30/21 00:24	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 04:27	AAT	Mt. Juliet, TN

DP-25(5-8) L1382341-54 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 09:05 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714179	1	07/29/21 18:05	07/29/21 18:09	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713369	1	07/29/21 10:38	07/29/21 15:40	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 21:26	LAT	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 18:36	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713676	1	07/29/21 12:51	07/30/21 00:34	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 04:47	AAT	Mt. Juliet, TN

DP-25(10-11.5) L1382341-55 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 09:10 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714179	1	07/29/21 18:05	07/29/21 18:09	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713369	1	07/29/21 10:38	07/29/21 15:43	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 21:29	LAT	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 19:45	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713676	1	07/29/21 12:51	07/30/21 12:21	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 05:07	AAT	Mt. Juliet, TN

DP-26(0-3) L1382341-56 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 08:30 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714179	1	07/29/21 18:05	07/29/21 18:09	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713369	1	07/29/21 10:38	07/29/21 15:50	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 21:33	LAT	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/30/21 15:38	WCR	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713676	1	07/29/21 12:51	07/30/21 00:54	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713333	1	07/28/21 18:42	07/29/21 05:47	AAT	Mt. Juliet, TN

DP-26(5-7.5) L1382341-57 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 08:35 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714179	1	07/29/21 18:05	07/29/21 18:09	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713369	1	07/29/21 10:38	07/29/21 15:53	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 21:36	LAT	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1713309	1	07/28/21 15:54	07/29/21 20:13	DMG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713676	1	07/29/21 12:51	07/30/21 01:04	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713947	1	07/29/21 14:45	07/29/21 20:31	AAT	Mt. Juliet, TN

DP-26(10-12) L1382341-58 Solid

Collected by: Tim Hainley | Collected date/time: 07/21/21 08:45 | Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1714179	1	07/29/21 18:05	07/29/21 18:09	CMK	Minneapolis, MN
Mercury by Method 7471B	WG1713369	1	07/29/21 10:38	07/29/21 15:55	BMF	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG1713655	5	07/29/21 06:10	07/29/21 21:39	LAT	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG1714367	1	07/29/21 23:53	07/30/21 13:35	JDG	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082 A	WG1713676	1	07/29/21 12:51	07/30/21 12:30	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1713947	1	07/29/21 14:45	07/29/21 22:30	AAT	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Kelly Mercer
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.5		1	07/29/2021 16:10	WG1714173

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0390	J	0.0191	0.0424	1	07/29/2021 18:44	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.32		0.106	1.06	5	07/29/2021 18:26	WG1713652
Barium	72.4		0.161	2.65	5	07/29/2021 18:26	WG1713652
Cadmium	0.142	J	0.0905	1.06	5	07/29/2021 18:26	WG1713652
Chromium	4.73	J	0.313	5.29	5	07/29/2021 18:26	WG1713652
Lead	37.3		0.105	2.12	5	07/29/2021 18:26	WG1713652
Selenium	0.403	J	0.191	2.65	5	07/29/2021 18:26	WG1713652
Silver	U		0.0916	0.529	5	07/29/2021 18:26	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	5.46		1.41	4.24	1	07/30/2021 08:07	WG1713304
Residual Range Organics (RRO)	28.3		3.53	10.6	1	07/30/2021 08:07	WG1713304
(S) o-Terphenyl	*58.6*			*18.0-148*		*07/30/2021 08:07*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0125	0.0360	1	07/29/2021 23:13	WG1713321
PCB 1221	U		0.0125	0.0360	1	07/29/2021 23:13	WG1713321
PCB 1232	U		0.0125	0.0360	1	07/29/2021 23:13	WG1713321
PCB 1242	U		0.0125	0.0360	1	07/29/2021 23:13	WG1713321
PCB 1248	U		0.00781	0.0180	1	07/29/2021 23:13	WG1713321
PCB 1254	U		0.00781	0.0180	1	07/29/2021 23:13	WG1713321
PCB 1260	U		0.00781	0.0180	1	07/29/2021 23:13	WG1713321
(S) Decachlorobiphenyl	*55.8*			*10.0-135*		*07/29/2021 23:13*	WG1713321
(S) Tetrachloro-m-xylene	*57.7*			*10.0-139*		*07/29/2021 23:13*	WG1713321

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00244	0.00635	1	07/28/2021 18:57	WG1713329
Acenaphthene	U		0.00221	0.00635	1	07/28/2021 18:57	WG1713329
Acenaphthylene	0.00301	J	0.00229	0.00635	1	07/28/2021 18:57	WG1713329
Benzo(a)anthracene	0.00377	J	0.00183	0.00635	1	07/28/2021 18:57	WG1713329
Benzo(a)pyrene	0.00704		0.00190	0.00635	1	07/28/2021 18:57	WG1713329
Benzo(b)fluoranthene	0.00939		0.00162	0.00635	1	07/28/2021 18:57	WG1713329
Benzo(g,h,i)perylene	0.0126		0.00187	0.00635	1	07/28/2021 18:57	WG1713329
Benzo(k)fluoranthene	0.00277	J	0.00228	0.00635	1	07/28/2021 18:57	WG1713329
Chrysene	0.00518	J	0.00246	0.00635	1	07/28/2021 18:57	WG1713329
Dibenz(a,h)anthracene	U		0.00182	0.00635	1	07/28/2021 18:57	WG1713329
Fluoranthene	0.00895		0.00240	0.00635	1	07/28/2021 18:57	WG1713329
Fluorene	U		0.00217	0.00635	1	07/28/2021 18:57	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00872		0.00192	0.00635	1	07/28/2021 18:57	WG1713329
Naphthalene	U		0.00432	0.0212	1	07/28/2021 18:57	WG1713329
Phenanthrene	0.00521	J	0.00245	0.00635	1	07/28/2021 18:57	WG1713329
Pyrene	0.0121		0.00212	0.00635	1	07/28/2021 18:57	WG1713329
1-Methylnaphthalene	U		0.00475	0.0212	1	07/28/2021 18:57	WG1713329
2-Methylnaphthalene	U		0.00452	0.0212	1	07/28/2021 18:57	WG1713329
2-Chloronaphthalene	U		0.00493	0.0212	1	07/28/2021 18:57	WG1713329
(S) Nitrobenzene-d5	*85.3*			*14.0-149*		*07/28/2021 18:57*	WG1713329
(S) 2-Fluorobiphenyl	*86.1*			*34.0-125*		*07/28/2021 18:57*	WG1713329
(S) p-Terphenyl-d14	*105*			*23.0-120*		*07/28/2021 18:57*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.9		1	07/29/2021 16:10	WG1714173

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	2.11		0.0234	0.0520	1	07/29/2021 18:51	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.37		0.130	1.30	5	07/29/2021 18:30	WG1713652
Barium	403		0.198	3.25	5	07/29/2021 18:30	WG1713652
Cadmium	0.468	J	0.111	1.30	5	07/29/2021 18:30	WG1713652
Chromium	21.9		0.385	6.51	5	07/29/2021 18:30	WG1713652
Lead	732		0.129	2.60	5	07/29/2021 18:30	WG1713652
Selenium	0.693	J	0.234	3.25	5	07/29/2021 18:30	WG1713652
Silver	0.871		0.113	0.651	5	07/29/2021 18:30	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	51.4		1.73	5.20	1	07/30/2021 07:12	WG1713304
Residual Range Organics (RRO)	43.8		4.33	13.0	1	07/30/2021 07:12	WG1713304
(S) o-Terphenyl	*23.5*			*18.0-148*		*07/30/2021 07:12*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0154	0.0442	1	07/29/2021 23:23	WG1713321
PCB 1221	U		0.0154	0.0442	1	07/29/2021 23:23	WG1713321
PCB 1232	U		0.0154	0.0442	1	07/29/2021 23:23	WG1713321
PCB 1242	U		0.0154	0.0442	1	07/29/2021 23:23	WG1713321
PCB 1248	U		0.00960	0.0221	1	07/29/2021 23:23	WG1713321
PCB 1254	U		0.00960	0.0221	1	07/29/2021 23:23	WG1713321
PCB 1260	U		0.00960	0.0221	1	07/29/2021 23:23	WG1713321
(S) Decachlorobiphenyl	*71.4*			*10.0-135*		*07/29/2021 23:23*	WG1713321
(S) Tetrachloro-m-xylene	*76.3*			*10.0-139*		*07/29/2021 23:23*	WG1713321

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00299	0.00781	1	07/29/2021 01:37	WG1713329
Acenaphthene	U		0.00272	0.00781	1	07/29/2021 01:37	WG1713329
Acenaphthylene	0.00733	J	0.00281	0.00781	1	07/29/2021 01:37	WG1713329
Benzo(a)anthracene	0.00834		0.00225	0.00781	1	07/29/2021 01:37	WG1713329
Benzo(a)pyrene	0.0103		0.00233	0.00781	1	07/29/2021 01:37	WG1713329
Benzo(b)fluoranthene	0.0111		0.00199	0.00781	1	07/29/2021 01:37	WG1713329
Benzo(g,h,i)perylene	0.0120		0.00230	0.00781	1	07/29/2021 01:37	WG1713329
Benzo(k)fluoranthene	0.00405	J	0.00280	0.00781	1	07/29/2021 01:37	WG1713329
Chrysene	0.00760	J	0.00302	0.00781	1	07/29/2021 01:37	WG1713329
Dibenz(a,h)anthracene	U		0.00224	0.00781	1	07/29/2021 01:37	WG1713329
Fluoranthene	0.0195		0.00295	0.00781	1	07/29/2021 01:37	WG1713329
Fluorene	U		0.00267	0.00781	1	07/29/2021 01:37	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00972		0.00236	0.00781	1	07/29/2021 01:37	WG1713329
Naphthalene	0.0359		0.00531	0.0260	1	07/29/2021 01:37	WG1713329
Phenanthrene	0.0186		0.00301	0.00781	1	07/29/2021 01:37	WG1713329
Pyrene	0.0222		0.00260	0.00781	1	07/29/2021 01:37	WG1713329
1-Methylnaphthalene	U		0.00584	0.0260	1	07/29/2021 01:37	WG1713329
2-Methylnaphthalene	0.00725	J	0.00556	0.0260	1	07/29/2021 01:37	WG1713329
2-Chloronaphthalene	U		0.00606	0.0260	1	07/29/2021 01:37	WG1713329
(S) Nitrobenzene-d5	*88.1*			*14.0-149*		*07/29/2021 01:37*	WG1713329
(S) 2-Fluorobiphenyl	*67.8*			*34.0-125*		*07/29/2021 01:37*	WG1713329
(S) p-Terphenyl-d14	*68.5*			*23.0-120*		*07/29/2021 01:37*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.8		1	07/29/2021 16:10	WG1714173

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.102		0.0234	0.0521	1	07/29/2021 18:54	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.03		0.130	1.30	5	07/29/2021 18:34	WG1713652
Barium	159		0.198	3.26	5	07/29/2021 18:34	WG1713652
Cadmium	0.149	J	0.111	1.30	5	07/29/2021 18:34	WG1713652
Chromium	8.69		0.385	6.51	5	07/29/2021 18:34	WG1713652
Lead	94.1		0.129	2.60	5	07/29/2021 18:34	WG1713652
Selenium	0.564	J	0.234	3.26	5	07/29/2021 18:34	WG1713652
Silver	U		0.113	0.651	5	07/29/2021 18:34	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	84.8	J	34.6	104	20	07/30/2021 11:22	WG1713304
Residual Range Organics (RRO)	1740		86.7	260	20	07/30/2021 11:22	WG1713304
(S) o-Terphenyl	*52.0*	J7		*18.0-148*		*07/30/2021 11:22*	WG1713304

Sample Narrative:

L1382341-03 WG1713304: Cannot run at lower dilution due to viscosity of extract

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0154	0.0443	1	07/29/2021 23:34	WG1713321
PCB 1221	U		0.0154	0.0443	1	07/29/2021 23:34	WG1713321
PCB 1232	U		0.0154	0.0443	1	07/29/2021 23:34	WG1713321
PCB 1242	U		0.0154	0.0443	1	07/29/2021 23:34	WG1713321
PCB 1248	U		0.00961	0.0221	1	07/29/2021 23:34	WG1713321
PCB 1254	U		0.00961	0.0221	1	07/29/2021 23:34	WG1713321
PCB 1260	U		0.00961	0.0221	1	07/29/2021 23:34	WG1713321
(S) Decachlorobiphenyl	*69.8*			*10.0-135*		*07/29/2021 23:34*	WG1713321
(S) Tetrachloro-m-xylene	*75.7*			*10.0-139*		*07/29/2021 23:34*	WG1713321

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.0353		0.00300	0.00781	1	07/29/2021 02:47	WG1713329
Acenaphthene	0.00803		0.00272	0.00781	1	07/29/2021 02:47	WG1713329
Acenaphthylene	0.137		0.00281	0.00781	1	07/29/2021 02:47	WG1713329
Benzo(a)anthracene	0.0945		0.00225	0.00781	1	07/29/2021 02:47	WG1713329
Benzo(a)pyrene	0.148		0.00233	0.00781	1	07/29/2021 02:47	WG1713329
Benzo(b)fluoranthene	0.181		0.00199	0.00781	1	07/29/2021 02:47	WG1713329
Benzo(g,h,i)perylene	0.184	J6	0.00230	0.00781	1	07/29/2021 02:47	WG1713329
Benzo(k)fluoranthene	0.0301		0.00280	0.00781	1	07/29/2021 02:47	WG1713329
Chrysene	0.167		0.00302	0.00781	1	07/29/2021 02:47	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	0.0643		0.00224	0.00781	1	07/29/2021 02:47	WG1713329
Fluoranthene	0.300	J6	0.00296	0.00781	1	07/29/2021 02:47	WG1713329
Fluorene	0.0505		0.00267	0.00781	1	07/29/2021 02:47	WG1713329
Indeno(1,2,3-cd)pyrene	0.0676		0.00236	0.00781	1	07/29/2021 02:47	WG1713329
Naphthalene	0.0999		0.00531	0.0260	1	07/29/2021 02:47	WG1713329
Phenanthrene	0.246		0.00301	0.00781	1	07/29/2021 02:47	WG1713329
Pyrene	0.383	J6	0.00260	0.00781	1	07/29/2021 02:47	WG1713329
1-Methylnaphthalene	0.0247	J	0.00585	0.0260	1	07/29/2021 02:47	WG1713329
2-Methylnaphthalene	0.0296		0.00556	0.0260	1	07/29/2021 02:47	WG1713329
2-Chloronaphthalene	U		0.00607	0.0260	1	07/29/2021 02:47	WG1713329
(S) Nitrobenzene-d5	*88.4*			*14.0-149*		*07/29/2021 02:47*	WG1713329
(S) 2-Fluorobiphenyl	*75.4*			*34.0-125*		*07/29/2021 02:47*	WG1713329
(S) p-Terphenyl-d14	*89.2*			*23.0-120*		*07/29/2021 02:47*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.8		1	07/29/2021 16:10	WG1714173

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0223	J	0.0200	0.0445	1	07/29/2021 18:56	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	0.562	J	0.111	1.11	5	07/29/2021 18:09	WG1713652
Barium	47.0		0.169	2.78	5	07/29/2021 18:09	WG1713652
Cadmium	U		0.0952	1.11	5	07/29/2021 18:09	WG1713652
Chromium	2.36	J	0.330	5.57	5	07/29/2021 18:09	WG1713652
Lead	5.84		0.110	2.23	5	07/29/2021 18:09	WG1713652
Selenium	0.265	J	0.200	2.78	5	07/29/2021 18:09	WG1713652
Silver	U		0.0963	0.557	5	07/29/2021 18:09	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	8.47		1.48	4.45	1	07/30/2021 09:03	WG1713304
Residual Range Organics (RRO)	33.2		3.71	11.1	1	07/30/2021 09:03	WG1713304
(S) o-Terphenyl	*43.9*			*18.0-148*		*07/30/2021 09:03*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0131	0.0379	1	07/29/2021 23:45	WG1713321
PCB 1221	U		0.0131	0.0379	1	07/29/2021 23:45	WG1713321
PCB 1232	U		0.0131	0.0379	1	07/29/2021 23:45	WG1713321
PCB 1242	U		0.0131	0.0379	1	07/29/2021 23:45	WG1713321
PCB 1248	U		0.00822	0.0189	1	07/29/2021 23:45	WG1713321
PCB 1254	U		0.00822	0.0189	1	07/29/2021 23:45	WG1713321
PCB 1260	U		0.00822	0.0189	1	07/29/2021 23:45	WG1713321
(S) Decachlorobiphenyl	*82.1*			*10.0-135*		*07/29/2021 23:45*	WG1713321
(S) Tetrachloro-m-xylene	*78.4*			*10.0-139*		*07/29/2021 23:45*	WG1713321

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00256	0.00668	1	07/29/2021 03:50	WG1713329
Acenaphthene	U		0.00233	0.00668	1	07/29/2021 03:50	WG1713329
Acenaphthylene	U		0.00241	0.00668	1	07/29/2021 03:50	WG1713329
Benzo(a)anthracene	U		0.00193	0.00668	1	07/29/2021 03:50	WG1713329
Benzo(a)pyrene	U		0.00199	0.00668	1	07/29/2021 03:50	WG1713329
Benzo(b)fluoranthene	U		0.00170	0.00668	1	07/29/2021 03:50	WG1713329
Benzo(g,h,i)perylene	0.00321	J	0.00197	0.00668	1	07/29/2021 03:50	WG1713329
Benzo(k)fluoranthene	U		0.00239	0.00668	1	07/29/2021 03:50	WG1713329
Chrysene	U		0.00258	0.00668	1	07/29/2021 03:50	WG1713329
Dibenz(a,h)anthracene	U		0.00192	0.00668	1	07/29/2021 03:50	WG1713329
Fluoranthene	U		0.00253	0.00668	1	07/29/2021 03:50	WG1713329
Fluorene	U		0.00228	0.00668	1	07/29/2021 03:50	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00202	0.00668	1	07/29/2021 03:50	WG1713329
Naphthalene	U		0.00454	0.0223	1	07/29/2021 03:50	WG1713329
Phenanthrene	U		0.00257	0.00668	1	07/29/2021 03:50	WG1713329
Pyrene	U		0.00223	0.00668	1	07/29/2021 03:50	WG1713329
1-Methylnaphthalene	U		0.00500	0.0223	1	07/29/2021 03:50	WG1713329
2-Methylnaphthalene	U		0.00475	0.0223	1	07/29/2021 03:50	WG1713329
2-Chloronaphthalene	U		0.00519	0.0223	1	07/29/2021 03:50	WG1713329
(S) Nitrobenzene-d5	*77.4*			*14.0-149*		*07/29/2021 03:50*	WG1713329
(S) 2-Fluorobiphenyl	*85.3*			*34.0-125*		*07/29/2021 03:50*	WG1713329
(S) p-Terphenyl-d14	*101*			*23.0-120*		*07/29/2021 03:50*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.3		1	07/29/2021 16:10	WG1714173

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.678		0.0216	0.0480	1	07/29/2021 18:59	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.94		0.120	1.20	5	07/29/2021 18:46	WG1713652
Barium	111		0.182	3.00	5	07/29/2021 18:46	WG1713652
Cadmium	0.162	J	0.103	1.20	5	07/29/2021 18:46	WG1713652
Chromium	6.83		0.355	6.00	5	07/29/2021 18:46	WG1713652
Lead	26.9		0.119	2.40	5	07/29/2021 18:46	WG1713652
Selenium	0.287	J	0.216	3.00	5	07/29/2021 18:46	WG1713652
Silver	U		0.104	0.600	5	07/29/2021 18:46	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	34.6		3.19	9.60	2	07/30/2021 09:44	WG1713304
Residual Range Organics (RRO)	148		7.99	24.0	2	07/30/2021 09:44	WG1713304
(S) o-Terphenyl	*36.6*			*18.0-148*		*07/30/2021 09:44*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0142	0.0408	1	07/29/2021 23:55	WG1713321
PCB 1221	U		0.0142	0.0408	1	07/29/2021 23:55	WG1713321
PCB 1232	U		0.0142	0.0408	1	07/29/2021 23:55	WG1713321
PCB 1242	U		0.0142	0.0408	1	07/29/2021 23:55	WG1713321
PCB 1248	U		0.00886	0.0204	1	07/29/2021 23:55	WG1713321
PCB 1254	U		0.00886	0.0204	1	07/29/2021 23:55	WG1713321
PCB 1260	U		0.00886	0.0204	1	07/29/2021 23:55	WG1713321
(S) Decachlorobiphenyl	*71.4*			*10.0-135*		*07/29/2021 23:55*	WG1713321
(S) Tetrachloro-m-xylene	*77.1*			*10.0-139*		*07/29/2021 23:55*	WG1713321

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.0121		0.00276	0.00720	1	07/29/2021 01:00	WG1713329
Acenaphthene	0.0149		0.00251	0.00720	1	07/29/2021 01:00	WG1713329
Acenaphthylene	0.0162		0.00259	0.00720	1	07/29/2021 01:00	WG1713329
Benzo(a)anthracene	0.0241		0.00208	0.00720	1	07/29/2021 01:00	WG1713329
Benzo(a)pyrene	0.0140		0.00215	0.00720	1	07/29/2021 01:00	WG1713329
Benzo(b)fluoranthene	0.0221		0.00184	0.00720	1	07/29/2021 01:00	WG1713329
Benzo(g,h,i)perylene	0.0178		0.00212	0.00720	1	07/29/2021 01:00	WG1713329
Benzo(k)fluoranthene	0.00787		0.00258	0.00720	1	07/29/2021 01:00	WG1713329
Chrysene	0.0218		0.00278	0.00720	1	07/29/2021 01:00	WG1713329
Dibenz(a,h)anthracene	0.00210	J	0.00206	0.00720	1	07/29/2021 01:00	WG1713329
Fluoranthene	0.0918		0.00272	0.00720	1	07/29/2021 01:00	WG1713329
Fluorene	0.0110		0.00246	0.00720	1	07/29/2021 01:00	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.0103		0.00217	0.00720	1	07/29/2021 01:00	WG1713329
Naphthalene	0.0608		0.00490	0.0240	1	07/29/2021 01:00	WG1713329
Phenanthrene	0.0536		0.00277	0.00720	1	07/29/2021 01:00	WG1713329
Pyrene	0.0877		0.00240	0.00720	1	07/29/2021 01:00	WG1713329
1-Methylnaphthalene	0.00871	J	0.00539	0.0240	1	07/29/2021 01:00	WG1713329
2-Methylnaphthalene	0.0209	J	0.00512	0.0240	1	07/29/2021 01:00	WG1713329
2-Chloronaphthalene	U		0.00559	0.0240	1	07/29/2021 01:00	WG1713329
(S) Nitrobenzene-d5	*67.5*			*14.0-149*		*07/29/2021 01:00*	WG1713329
(S) 2-Fluorobiphenyl	*66.4*			*34.0-125*		*07/29/2021 01:00*	WG1713329
(S) p-Terphenyl-d14	*76.4*			*23.0-120*		*07/29/2021 01:00*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	07/29/2021 16:10	WG1714173

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.116		0.0199	0.0442	1	07/29/2021 19:02	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.74		0.111	1.11	5	07/29/2021 18:50	WG1713652
Barium	55.5		0.168	2.76	5	07/29/2021 18:50	WG1713652
Cadmium	0.164	J	0.0946	1.11	5	07/29/2021 18:50	WG1713652
Chromium	9.11		0.327	5.53	5	07/29/2021 18:50	WG1713652
Lead	6.32		0.109	2.21	5	07/29/2021 18:50	WG1713652
Selenium	U		0.199	2.76	5	07/29/2021 18:50	WG1713652
Silver	U		0.0957	0.553	5	07/29/2021 18:50	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	13.7		2.94	8.85	2	07/30/2021 09:58	WG1713304
Residual Range Organics (RRO)	84.9		7.37	22.1	2	07/30/2021 09:58	WG1713304
(S) o-Terphenyl	*62.6*			*18.0-148*		*07/30/2021 09:58*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0130	0.0376	1	07/30/2021 00:06	WG1713321
PCB 1221	U		0.0130	0.0376	1	07/30/2021 00:06	WG1713321
PCB 1232	U		0.0130	0.0376	1	07/30/2021 00:06	WG1713321
PCB 1242	U		0.0130	0.0376	1	07/30/2021 00:06	WG1713321
PCB 1248	U		0.00816	0.0188	1	07/30/2021 00:06	WG1713321
PCB 1254	U		0.00816	0.0188	1	07/30/2021 00:06	WG1713321
PCB 1260	U		0.00816	0.0188	1	07/30/2021 00:06	WG1713321
(S) Decachlorobiphenyl	*81.2*			*10.0-135*		*07/30/2021 00:06*	WG1713321
(S) Tetrachloro-m-xylene	*85.8*			*10.0-139*		*07/30/2021 00:06*	WG1713321

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00254	0.00664	1	07/29/2021 01:18	WG1713329
Acenaphthene	U		0.00231	0.00664	1	07/29/2021 01:18	WG1713329
Acenaphthylene	U		0.00239	0.00664	1	07/29/2021 01:18	WG1713329
Benzo(a)anthracene	0.00342	J	0.00191	0.00664	1	07/29/2021 01:18	WG1713329
Benzo(a)pyrene	0.00321	J	0.00198	0.00664	1	07/29/2021 01:18	WG1713329
Benzo(b)fluoranthene	0.00586	J	0.00169	0.00664	1	07/29/2021 01:18	WG1713329
Benzo(g,h,i)perylene	0.00389	J	0.00196	0.00664	1	07/29/2021 01:18	WG1713329
Benzo(k)fluoranthene	U		0.00238	0.00664	1	07/29/2021 01:18	WG1713329
Chrysene	0.00395	J	0.00257	0.00664	1	07/29/2021 01:18	WG1713329
Dibenz(a,h)anthracene	U		0.00190	0.00664	1	07/29/2021 01:18	WG1713329
Fluoranthene	0.0119		0.00251	0.00664	1	07/29/2021 01:18	WG1713329
Fluorene	U		0.00227	0.00664	1	07/29/2021 01:18	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00241	J	0.00200	0.00664	1	07/29/2021 01:18	WG1713329
Naphthalene	0.00911	J	0.00451	0.0221	1	07/29/2021 01:18	WG1713329
Phenanthrene	0.00871		0.00255	0.00664	1	07/29/2021 01:18	WG1713329
Pyrene	0.0119		0.00221	0.00664	1	07/29/2021 01:18	WG1713329
1-Methylnaphthalene	U		0.00497	0.0221	1	07/29/2021 01:18	WG1713329
2-Methylnaphthalene	U		0.00472	0.0221	1	07/29/2021 01:18	WG1713329
2-Chloronaphthalene	U		0.00515	0.0221	1	07/29/2021 01:18	WG1713329
(S) Nitrobenzene-d5	*80.5*			*14.0-149*		*07/29/2021 01:18*	WG1713329
(S) 2-Fluorobiphenyl	*84.7*			*34.0-125*		*07/29/2021 01:18*	WG1713329
(S) p-Terphenyl-d14	*99.3*			*23.0-120*		*07/29/2021 01:18*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.4		1	07/29/2021 16:10	WG1714173

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0469	J	0.0232	0.0517	1	07/29/2021 19:04	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.35		0.129	1.29	5	07/29/2021 18:53	WG1713652
Barium	161		0.196	3.23	5	07/29/2021 18:53	WG1713652
Cadmium	0.182	J	0.110	1.29	5	07/29/2021 18:53	WG1713652
Chromium	25.4		0.382	6.46	5	07/29/2021 18:53	WG1713652
Lead	5.63		0.128	2.58	5	07/29/2021 18:53	WG1713652
Selenium	0.643	J	0.232	3.23	5	07/29/2021 18:53	WG1713652
Silver	U		0.112	0.646	5	07/29/2021 18:53	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	11.4		1.72	5.17	1	07/30/2021 09:16	WG1713304
Residual Range Organics (RRO)	14.6		4.30	12.9	1	07/30/2021 09:16	WG1713304
(S) o-Terphenyl	*25.0*			*18.0-148*		*07/30/2021 09:16*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0152	0.0439	1	07/30/2021 00:16	WG1713321
PCB 1221	U		0.0152	0.0439	1	07/30/2021 00:16	WG1713321
PCB 1232	U		0.0152	0.0439	1	07/30/2021 00:16	WG1713321
PCB 1242	U		0.0152	0.0439	1	07/30/2021 00:16	WG1713321
PCB 1248	U		0.00953	0.0220	1	07/30/2021 00:16	WG1713321
PCB 1254	U		0.00953	0.0220	1	07/30/2021 00:16	WG1713321
PCB 1260	U		0.00953	0.0220	1	07/30/2021 00:16	WG1713321
(S) Decachlorobiphenyl	*81.1*			*10.0-135*		*07/30/2021 00:16*	WG1713321
(S) Tetrachloro-m-xylene	*87.5*			*10.0-139*		*07/30/2021 00:16*	WG1713321

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00297	0.00775	1	07/29/2021 01:55	WG1713329
Acenaphthene	U		0.0540	0.155	20	07/29/2021 22:29	WG1713329
Acenaphthylene	U		0.0558	0.155	20	07/29/2021 22:29	WG1713329
Benzo(a)anthracene	U		0.00223	0.00775	1	07/29/2021 01:55	WG1713329
Benzo(a)pyrene	U		0.00231	0.00775	1	07/29/2021 01:55	WG1713329
Benzo(b)fluoranthene	U		0.00198	0.00775	1	07/29/2021 01:55	WG1713329
Benzo(g,h,i)perylene	U		0.00229	0.00775	1	07/29/2021 01:55	WG1713329
Benzo(k)fluoranthene	U		0.00278	0.00775	1	07/29/2021 01:55	WG1713329
Chrysene	U		0.00300	0.00775	1	07/29/2021 01:55	WG1713329
Dibenz(a,h)anthracene	U		0.00222	0.00775	1	07/29/2021 01:55	WG1713329
Fluoranthene	U		0.00293	0.00775	1	07/29/2021 01:55	WG1713329
Fluorene	U		0.0529	0.155	20	07/29/2021 22:29	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00234	0.00775	1	07/29/2021 01:55	WG1713329
Naphthalene	0.00984	J	0.00527	0.0258	1	07/29/2021 01:55	WG1713329
Phenanthrene	0.0191		0.00298	0.00775	1	07/29/2021 01:55	WG1713329
Pyrene	U		0.00258	0.00775	1	07/29/2021 01:55	WG1713329
1-Methylnaphthalene	U		0.00580	0.0258	1	07/29/2021 01:55	WG1713329
2-Methylnaphthalene	U		0.00551	0.0258	1	07/29/2021 01:55	WG1713329
2-Chloronaphthalene	U		0.120	0.517	20	07/29/2021 22:29	WG1713329
(S) Nitrobenzene-d5	*95.6*	J7		*14.0-149*		*07/29/2021 22:29*	WG1713329
(S) Nitrobenzene-d5	*72.0*			*14.0-149*		*07/29/2021 01:55*	WG1713329
(S) 2-Fluorobiphenyl	*19.2*	J2		*34.0-125*		*07/29/2021 01:55*	WG1713329
(S) 2-Fluorobiphenyl	*45.6*	J7		*34.0-125*		*07/29/2021 22:29*	WG1713329
(S) p-Terphenyl-d14	*65.3*	J7		*23.0-120*		*07/29/2021 22:29*	WG1713329
(S) p-Terphenyl-d14	*71.8*			*23.0-120*		*07/29/2021 01:55*	WG1713329

Sample Narrative:

L1382341-07 WG1713329: Surrogate failure due to matrix interference

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	07/29/2021 16:10	WG1714173

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.164		0.0206	0.0458	1	07/29/2021 19:07	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.56		0.114	1.14	5	07/29/2021 18:57	WG1713652
Barium	197		0.174	2.86	5	07/29/2021 18:57	WG1713652
Cadmium	0.262	J	0.0979	1.14	5	07/29/2021 18:57	WG1713652
Chromium	23.7		0.339	5.72	5	07/29/2021 18:57	WG1713652
Lead	12.2		0.113	2.29	5	07/29/2021 18:57	WG1713652
Selenium	0.412	J	0.206	2.86	5	07/29/2021 18:57	WG1713652
Silver	U		0.0990	0.572	5	07/29/2021 18:57	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	121		15.2	45.8	10	07/30/2021 10:40	WG1713304
Residual Range Organics (RRO)	1300		38.1	114	10	07/30/2021 10:40	WG1713304
(S) o-Terphenyl	*50.5*			*18.0-148*		*07/30/2021 10:40*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0135	0.0389	1	07/29/2021 12:30	WG1713323
PCB 1221	U		0.0135	0.0389	1	07/29/2021 12:30	WG1713323
PCB 1232	U		0.0135	0.0389	1	07/29/2021 12:30	WG1713323
PCB 1242	U		0.0135	0.0389	1	07/29/2021 12:30	WG1713323
PCB 1248	U		0.00845	0.0195	1	07/29/2021 12:30	WG1713323
PCB 1254	U		0.00845	0.0195	1	07/29/2021 12:30	WG1713323
PCB 1260	U		0.00845	0.0195	1	07/29/2021 12:30	WG1713323
(S) Decachlorobiphenyl	*63.6*			*10.0-135*		*07/29/2021 12:30*	WG1713323
(S) Tetrachloro-m-xylene	*76.6*			*10.0-139*		*07/29/2021 12:30*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.114		0.00263	0.00687	1	07/29/2021 02:11	WG1713329
Acenaphthene	0.0237		0.00239	0.00687	1	07/29/2021 02:11	WG1713329
Acenaphthylene	0.0204		0.00247	0.00687	1	07/29/2021 02:11	WG1713329
Benzo(a)anthracene	0.191		0.00198	0.00687	1	07/29/2021 02:11	WG1713329
Benzo(a)pyrene	0.224		0.00205	0.00687	1	07/29/2021 02:11	WG1713329
Benzo(b)fluoranthene	0.261		0.00175	0.00687	1	07/29/2021 02:11	WG1713329
Benzo(g,h,i)perylene	0.161		0.00203	0.00687	1	07/29/2021 02:11	WG1713329
Benzo(k)fluoranthene	0.0886		0.00246	0.00687	1	07/29/2021 02:11	WG1713329
Chrysene	0.260		0.00266	0.00687	1	07/29/2021 02:11	WG1713329
Dibenz(a,h)anthracene	0.0287		0.00197	0.00687	1	07/29/2021 02:11	WG1713329
Fluoranthene	0.464		0.00260	0.00687	1	07/29/2021 02:11	WG1713329
Fluorene	0.0179		0.00235	0.00687	1	07/29/2021 02:11	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.159		0.00207	0.00687	1	07/29/2021 02:11	WG1713329
Naphthalene	0.00762	J	0.00467	0.0229	1	07/29/2021 02:11	WG1713329
Phenanthrene	0.199		0.00264	0.00687	1	07/29/2021 02:11	WG1713329
Pyrene	0.451		0.00229	0.00687	1	07/29/2021 02:11	WG1713329
1-Methylnaphthalene	U		0.00514	0.0229	1	07/29/2021 02:11	WG1713329
2-Methylnaphthalene	0.00830	J	0.00489	0.0229	1	07/29/2021 02:11	WG1713329
2-Chloronaphthalene	U		0.00533	0.0229	1	07/29/2021 02:11	WG1713329
(S) Nitrobenzene-d5	*85.2*			*14.0-149*		*07/29/2021 02:11*	WG1713329
(S) 2-Fluorobiphenyl	*85.3*			*34.0-125*		*07/29/2021 02:11*	WG1713329
(S) p-Terphenyl-d14	*103*			*23.0-120*		*07/29/2021 02:11*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.8		1	07/29/2021 16:10	WG1714173

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.392		0.0234	0.0521	1	07/29/2021 19:20	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.81		0.130	1.30	5	07/29/2021 19:00	WG1713652
Barium	146		0.198	3.26	5	07/29/2021 19:00	WG1713652
Cadmium	0.244	J	0.111	1.30	5	07/29/2021 19:00	WG1713652
Chromium	19.3		0.386	6.51	5	07/29/2021 19:00	WG1713652
Lead	12.5		0.129	2.60	5	07/29/2021 19:00	WG1713652
Selenium	0.901	J	0.234	3.26	5	07/29/2021 19:00	WG1713652
Silver	U		0.113	0.651	5	07/29/2021 19:00	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	34.5		1.73	5.21	1	07/30/2021 07:40	WG1713304
Residual Range Organics (RRO)	113		4.34	13.0	1	07/30/2021 07:40	WG1713304
(S) o-Terphenyl	*28.6*			*18.0-148*		*07/30/2021 07:40*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0154	0.0443	1	07/29/2021 12:56	WG1713323
PCB 1221	U		0.0154	0.0443	1	07/29/2021 12:56	WG1713323
PCB 1232	U		0.0154	0.0443	1	07/29/2021 12:56	WG1713323
PCB 1242	U		0.0154	0.0443	1	07/29/2021 12:56	WG1713323
PCB 1248	U		0.00961	0.0221	1	07/29/2021 12:56	WG1713323
PCB 1254	U		0.00961	0.0221	1	07/29/2021 12:56	WG1713323
PCB 1260	U		0.00961	0.0221	1	07/29/2021 12:56	WG1713323
(S) Decachlorobiphenyl	*64.5*			*10.0-135*		*07/29/2021 12:56*	WG1713323
(S) Tetrachloro-m-xylene	*80.8*			*10.0-139*		*07/29/2021 12:56*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00300	0.00781	1	07/29/2021 02:12	WG1713329
Acenaphthene	U		0.00272	0.00781	1	07/29/2021 02:12	WG1713329
Acenaphthylene	U		0.00281	0.00781	1	07/29/2021 02:12	WG1713329
Benzo(a)anthracene	U		0.00225	0.00781	1	07/29/2021 02:12	WG1713329
Benzo(a)pyrene	U		0.00233	0.00781	1	07/29/2021 02:12	WG1713329
Benzo(b)fluoranthene	U		0.00199	0.00781	1	07/29/2021 02:12	WG1713329
Benzo(g,h,i)perylene	U		0.00231	0.00781	1	07/29/2021 02:12	WG1713329
Benzo(k)fluoranthene	U		0.00280	0.00781	1	07/29/2021 02:12	WG1713329
Chrysene	U		0.00302	0.00781	1	07/29/2021 02:12	WG1713329
Dibenz(a,h)anthracene	U		0.00224	0.00781	1	07/29/2021 02:12	WG1713329
Fluoranthene	U		0.00296	0.00781	1	07/29/2021 02:12	WG1713329
Fluorene	U		0.00267	0.00781	1	07/29/2021 02:12	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00236	0.00781	1	07/29/2021 02:12	WG1713329
Naphthalene	U		0.00531	0.0260	1	07/29/2021 02:12	WG1713329
Phenanthrene	U		0.00301	0.00781	1	07/29/2021 02:12	WG1713329
Pyrene	U		0.00260	0.00781	1	07/29/2021 02:12	WG1713329
1-Methylnaphthalene	U		0.00585	0.0260	1	07/29/2021 02:12	WG1713329
2-Methylnaphthalene	U		0.00556	0.0260	1	07/29/2021 02:12	WG1713329
2-Chloronaphthalene	U		0.00607	0.0260	1	07/29/2021 02:12	WG1713329
(S) Nitrobenzene-d5	*68.0*			*14.0-149*		*07/29/2021 02:12*	WG1713329
(S) 2-Fluorobiphenyl	*37.8*			*34.0-125*		*07/29/2021 02:12*	WG1713329
(S) p-Terphenyl-d14	*70.2*			*23.0-120*		*07/29/2021 02:12*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.9		1	07/29/2021 16:02	WG1714174

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0192	0.0426	1	07/29/2021 16:13	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.12		0.107	1.07	5	07/29/2021 19:04	WG1713652
Barium	68.0		0.162	2.66	5	07/29/2021 19:04	WG1713652
Cadmium	0.226	J	0.0911	1.07	5	07/29/2021 19:04	WG1713652
Chromium	7.54		0.315	5.33	5	07/29/2021 19:04	WG1713652
Lead	4.83		0.105	2.13	5	07/29/2021 19:04	WG1713652
Selenium	0.215	J	0.192	2.66	5	07/29/2021 19:04	WG1713652
Silver	U		0.0921	0.533	5	07/29/2021 19:04	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	4.62		1.42	4.26	1	07/30/2021 06:45	WG1713304
Residual Range Organics (RRO)	15.3		3.55	10.7	1	07/30/2021 06:45	WG1713304
(S) o-Terphenyl	*47.5*			*18.0-148*		*07/30/2021 06:45*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0126	0.0362	1	07/29/2021 13:23	WG1713323
PCB 1221	U		0.0126	0.0362	1	07/29/2021 13:23	WG1713323
PCB 1232	U		0.0126	0.0362	1	07/29/2021 13:23	WG1713323
PCB 1242	U		0.0126	0.0362	1	07/29/2021 13:23	WG1713323
PCB 1248	U		0.00786	0.0181	1	07/29/2021 13:23	WG1713323
PCB 1254	U		0.00786	0.0181	1	07/29/2021 13:23	WG1713323
PCB 1260	U		0.00786	0.0181	1	07/29/2021 13:23	WG1713323
(S) Decachlorobiphenyl	*78.9*			*10.0-135*		*07/29/2021 13:23*	WG1713323
(S) Tetrachloro-m-xylene	*89.9*			*10.0-139*		*07/29/2021 13:23*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00245	0.00639	1	07/29/2021 02:30	WG1713329
Acenaphthene	0.00262	J	0.00223	0.00639	1	07/29/2021 02:30	WG1713329
Acenaphthylene	0.00346	J	0.00230	0.00639	1	07/29/2021 02:30	WG1713329
Benzo(a)anthracene	0.00607	J	0.00184	0.00639	1	07/29/2021 02:30	WG1713329
Benzo(a)pyrene	0.00507	J	0.00191	0.00639	1	07/29/2021 02:30	WG1713329
Benzo(b)fluoranthene	0.00584	J	0.00163	0.00639	1	07/29/2021 02:30	WG1713329
Benzo(g,h,i)perylene	0.00390	J	0.00189	0.00639	1	07/29/2021 02:30	WG1713329
Benzo(k)fluoranthene	U		0.00229	0.00639	1	07/29/2021 02:30	WG1713329
Chrysene	0.00587	J	0.00247	0.00639	1	07/29/2021 02:30	WG1713329
Dibenz(a,h)anthracene	U		0.00183	0.00639	1	07/29/2021 02:30	WG1713329
Fluoranthene	0.0122		0.00242	0.00639	1	07/29/2021 02:30	WG1713329
Fluorene	0.00232	J	0.00218	0.00639	1	07/29/2021 02:30	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00399	J	0.00193	0.00639	1	07/29/2021 02:30	WG1713329
Naphthalene	0.0296		0.00435	0.0213	1	07/29/2021 02:30	WG1713329
Phenanthrene	0.0117		0.00246	0.00639	1	07/29/2021 02:30	WG1713329
Pyrene	0.0132		0.00213	0.00639	1	07/29/2021 02:30	WG1713329
1-Methylnaphthalene	U		0.00478	0.0213	1	07/29/2021 02:30	WG1713329
2-Methylnaphthalene	0.0108	J	0.00455	0.0213	1	07/29/2021 02:30	WG1713329
2-Chloronaphthalene	U		0.00496	0.0213	1	07/29/2021 02:30	WG1713329
(S) Nitrobenzene-d5	*85.4*			*14.0-149*		*07/29/2021 02:30*	WG1713329
(S) 2-Fluorobiphenyl	*80.6*			*34.0-125*		*07/29/2021 02:30*	WG1713329
(S) p-Terphenyl-d14	*81.2*			*23.0-120*		*07/29/2021 02:30*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.3		1	07/29/2021 16:02	WG1714174

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.898		0.0253	0.0561	1	07/29/2021 16:20	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.14		0.140	1.40	5	07/29/2021 19:07	WG1713652
Barium	235		0.213	3.51	5	07/29/2021 19:07	WG1713652
Cadmium	0.190	J	0.120	1.40	5	07/29/2021 19:07	WG1713652
Chromium	17.0		0.415	7.02	5	07/29/2021 19:07	WG1713652
Lead	46.4		0.139	2.81	5	07/29/2021 19:07	WG1713652
Selenium	0.419	J	0.253	3.51	5	07/29/2021 19:07	WG1713652
Silver	U		0.121	0.702	5	07/29/2021 19:07	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	30.0		1.87	5.61	1	07/30/2021 07:26	WG1713304
Residual Range Organics (RRO)	153		4.67	14.0	1	07/30/2021 07:26	WG1713304
(S) o-Terphenyl	*26.9*			*18.0-148*		*07/30/2021 07:26*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0166	0.0477	1	07/29/2021 13:32	WG1713323
PCB 1221	U		0.0166	0.0477	1	07/29/2021 13:32	WG1713323
PCB 1232	U		0.0166	0.0477	1	07/29/2021 13:32	WG1713323
PCB 1242	U		0.0166	0.0477	1	07/29/2021 13:32	WG1713323
PCB 1248	U		0.0104	0.0239	1	07/29/2021 13:32	WG1713323
PCB 1254	U		0.0104	0.0239	1	07/29/2021 13:32	WG1713323
PCB 1260	U		0.0104	0.0239	1	07/29/2021 13:32	WG1713323
(S) Decachlorobiphenyl	*70.1*			*10.0-135*		*07/29/2021 13:32*	WG1713323
(S) Tetrachloro-m-xylene	*81.8*			*10.0-139*		*07/29/2021 13:32*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.0704		0.00323	0.00842	1	07/29/2021 04:29	WG1713329
Acenaphthene	U		0.00293	0.00842	1	07/29/2021 04:29	WG1713329
Acenaphthylene	0.0587		0.00303	0.00842	1	07/29/2021 04:29	WG1713329
Benzo(a)anthracene	0.644		0.00243	0.00842	1	07/29/2021 04:29	WG1713329
Benzo(a)pyrene	0.540		0.00251	0.00842	1	07/29/2021 04:29	WG1713329
Benzo(b)fluoranthene	0.509		0.00215	0.00842	1	07/29/2021 04:29	WG1713329
Benzo(g,h,i)perylene	0.192		0.00248	0.00842	1	07/29/2021 04:29	WG1713329
Benzo(k)fluoranthene	0.184		0.00302	0.00842	1	07/29/2021 04:29	WG1713329
Chrysene	0.615		0.00326	0.00842	1	07/29/2021 04:29	WG1713329
Dibenz(a,h)anthracene	0.0665		0.00241	0.00842	1	07/29/2021 04:29	WG1713329
Fluoranthene	0.710		0.00319	0.00842	1	07/29/2021 04:29	WG1713329
Fluorene	0.0131		0.00288	0.00842	1	07/29/2021 04:29	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.260		0.00254	0.00842	1	07/29/2021 04:29	WG1713329
Naphthalene	0.0706		0.00572	0.0281	1	07/29/2021 04:29	WG1713329
Phenanthrene	0.140		0.00324	0.00842	1	07/29/2021 04:29	WG1713329
Pyrene	0.909		0.00281	0.00842	1	07/29/2021 04:29	WG1713329
1-Methylnaphthalene	0.0105	J	0.00630	0.0281	1	07/29/2021 04:29	WG1713329
2-Methylnaphthalene	0.0246	J	0.00599	0.0281	1	07/29/2021 04:29	WG1713329
2-Chloronaphthalene	U		0.00654	0.0281	1	07/29/2021 04:29	WG1713329
(S) Nitrobenzene-d5	*64.9*			*14.0-149*		*07/29/2021 04:29*	WG1713329
(S) 2-Fluorobiphenyl	*52.3*			*34.0-125*		*07/29/2021 04:29*	WG1713329
(S) p-Terphenyl-d14	*61.8*			*23.0-120*		*07/29/2021 04:29*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	07/29/2021 16:02	WG1714174

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0188	0.0418	1	07/29/2021 16:23	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.20		0.104	1.04	5	07/29/2021 19:11	WG1713652
Barium	59.6		0.159	2.61	5	07/29/2021 19:11	WG1713652
Cadmium	0.197	J	0.0893	1.04	5	07/29/2021 19:11	WG1713652
Chromium	8.43		0.309	5.22	5	07/29/2021 19:11	WG1713652
Lead	5.11		0.103	2.09	5	07/29/2021 19:11	WG1713652
Selenium	U		0.188	2.61	5	07/29/2021 19:11	WG1713652
Silver	U		0.0904	0.522	5	07/29/2021 19:11	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	3.34	J	1.39	4.18	1	07/30/2021 08:49	WG1713304
Residual Range Organics (RRO)	19.3		3.48	10.4	1	07/30/2021 08:49	WG1713304
(S) o-Terphenyl	*60.6*			*18.0-148*		*07/30/2021 08:49*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0123	0.0355	1	07/29/2021 13:41	WG1713323
PCB 1221	U		0.0123	0.0355	1	07/29/2021 13:41	WG1713323
PCB 1232	U		0.0123	0.0355	1	07/29/2021 13:41	WG1713323
PCB 1242	U		0.0123	0.0355	1	07/29/2021 13:41	WG1713323
PCB 1248	U		0.00771	0.0178	1	07/29/2021 13:41	WG1713323
PCB 1254	U		0.00771	0.0178	1	07/29/2021 13:41	WG1713323
PCB 1260	U		0.00771	0.0178	1	07/29/2021 13:41	WG1713323
(S) Decachlorobiphenyl	*75.4*			*10.0-135*		*07/29/2021 13:41*	WG1713323
(S) Tetrachloro-m-xylene	*85.1*			*10.0-139*		*07/29/2021 13:41*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00240	0.00627	1	07/29/2021 02:47	WG1713329
Acenaphthene	U		0.00218	0.00627	1	07/29/2021 02:47	WG1713329
Acenaphthylene	U		0.00226	0.00627	1	07/29/2021 02:47	WG1713329
Benzo(a)anthracene	0.0147		0.00181	0.00627	1	07/29/2021 02:47	WG1713329
Benzo(a)pyrene	0.00780		0.00187	0.00627	1	07/29/2021 02:47	WG1713329
Benzo(b)fluoranthene	0.0292		0.00160	0.00627	1	07/29/2021 02:47	WG1713329
Benzo(g,h,i)perylene	0.00547	J	0.00185	0.00627	1	07/29/2021 02:47	WG1713329
Benzo(k)fluoranthene	0.0101		0.00225	0.00627	1	07/29/2021 02:47	WG1713329
Chrysene	0.0196		0.00242	0.00627	1	07/29/2021 02:47	WG1713329
Dibenz(a,h)anthracene	U		0.00180	0.00627	1	07/29/2021 02:47	WG1713329
Fluoranthene	0.0221		0.00237	0.00627	1	07/29/2021 02:47	WG1713329
Fluorene	U		0.00214	0.00627	1	07/29/2021 02:47	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00718		0.00189	0.00627	1	07/29/2021 02:47	WG1713329
Naphthalene	U		0.00426	0.0209	1	07/29/2021 02:47	WG1713329
Phenanthrene	0.00438	J	0.00241	0.00627	1	07/29/2021 02:47	WG1713329
Pyrene	0.0270		0.00209	0.00627	1	07/29/2021 02:47	WG1713329
1-Methylnaphthalene	U		0.00469	0.0209	1	07/29/2021 02:47	WG1713329
2-Methylnaphthalene	U		0.00446	0.0209	1	07/29/2021 02:47	WG1713329
2-Chloronaphthalene	U		0.00487	0.0209	1	07/29/2021 02:47	WG1713329
(S) Nitrobenzene-d5	*82.2*			*14.0-149*		*07/29/2021 02:47*	WG1713329
(S) 2-Fluorobiphenyl	*80.8*			*34.0-125*		*07/29/2021 02:47*	WG1713329
(S) p-Terphenyl-d14	*101*			*23.0-120*		*07/29/2021 02:47*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.4		1	07/29/2021 16:02	WG1714174

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.105		0.0284	0.0630	1	07/29/2021 16:25	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.57		0.158	1.58	5	07/29/2021 19:14	WG1713652
Barium	195		0.240	3.94	5	07/29/2021 19:14	WG1713652
Cadmium	0.334	J	0.135	1.58	5	07/29/2021 19:14	WG1713652
Chromium	26.7		0.467	7.88	5	07/29/2021 19:14	WG1713652
Lead	56.1		0.156	3.15	5	07/29/2021 19:14	WG1713652
Selenium	0.584	J	0.284	3.94	5	07/29/2021 19:14	WG1713652
Silver	U		0.136	0.788	5	07/29/2021 19:14	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.27	J	2.10	6.30	1	07/30/2021 06:17	WG1713304
Residual Range Organics (RRO)	U		5.25	15.8	1	07/30/2021 06:17	WG1713304
(S) o-Terphenyl	*18.3*			*18.0-148*		*07/30/2021 06:17*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0186	0.0536	1	07/29/2021 13:49	WG1713323
PCB 1221	U		0.0186	0.0536	1	07/29/2021 13:49	WG1713323
PCB 1232	U		0.0186	0.0536	1	07/29/2021 13:49	WG1713323
PCB 1242	U		0.0186	0.0536	1	07/29/2021 13:49	WG1713323
PCB 1248	U		0.0116	0.0268	1	07/29/2021 13:49	WG1713323
PCB 1254	U		0.0116	0.0268	1	07/29/2021 13:49	WG1713323
PCB 1260	U		0.0116	0.0268	1	07/29/2021 13:49	WG1713323
(S) Decachlorobiphenyl	*64.0*			*10.0-135*		*07/29/2021 13:49*	WG1713323
(S) Tetrachloro-m-xylene	*79.2*			*10.0-139*		*07/29/2021 13:49*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00363	0.00946	1	07/29/2021 03:04	WG1713329
Acenaphthene	U		0.00329	0.00946	1	07/29/2021 03:04	WG1713329
Acenaphthylene	U		0.00340	0.00946	1	07/29/2021 03:04	WG1713329
Benzo(a)anthracene	U		0.00273	0.00946	1	07/29/2021 03:04	WG1713329
Benzo(a)pyrene	U		0.00282	0.00946	1	07/29/2021 03:04	WG1713329
Benzo(b)fluoranthene	U		0.00241	0.00946	1	07/29/2021 03:04	WG1713329
Benzo(g,h,i)perylene	U		0.00279	0.00946	1	07/29/2021 03:04	WG1713329
Benzo(k)fluoranthene	U		0.00339	0.00946	1	07/29/2021 03:04	WG1713329
Chrysene	0.00567	J	0.00366	0.00946	1	07/29/2021 03:04	WG1713329
Dibenz(a,h)anthracene	U		0.00271	0.00946	1	07/29/2021 03:04	WG1713329
Fluoranthene	0.00361	J	0.00358	0.00946	1	07/29/2021 03:04	WG1713329
Fluorene	U		0.00323	0.00946	1	07/29/2021 03:04	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00285	0.00946	1	07/29/2021 03:04	WG1713329
Naphthalene	U		0.00643	0.0315	1	07/29/2021 03:04	WG1713329
Phenanthrene	U		0.00364	0.00946	1	07/29/2021 03:04	WG1713329
Pyrene	0.00397	J	0.00315	0.00946	1	07/29/2021 03:04	WG1713329
1-Methylnaphthalene	U		0.00708	0.0315	1	07/29/2021 03:04	WG1713329
2-Methylnaphthalene	U		0.00673	0.0315	1	07/29/2021 03:04	WG1713329
2-Chloronaphthalene	U		0.00734	0.0315	1	07/29/2021 03:04	WG1713329
(S) Nitrobenzene-d5	*59.6*			*14.0-149*		*07/29/2021 03:04*	WG1713329
(S) 2-Fluorobiphenyl	*39.4*			*34.0-125*		*07/29/2021 03:04*	WG1713329
(S) p-Terphenyl-d14	*73.4*			*23.0-120*		*07/29/2021 03:04*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	07/29/2021 16:02	WG1714174

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0189	0.0419	1	07/29/2021 16:28	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.07		0.105	1.05	5	07/29/2021 19:18	WG1713652
Barium	72.3		0.159	2.62	5	07/29/2021 19:18	WG1713652
Cadmium	0.104	J	0.0896	1.05	5	07/29/2021 19:18	WG1713652
Chromium	5.76		0.310	5.24	5	07/29/2021 19:18	WG1713652
Lead	6.73		0.104	2.10	5	07/29/2021 19:18	WG1713652
Selenium	0.316	J	0.189	2.62	5	07/29/2021 19:18	WG1713652
Silver	U		0.0906	0.524	5	07/29/2021 19:18	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	12.2		1.39	4.19	1	07/30/2021 07:53	WG1713304
Residual Range Organics (RRO)	48.3		3.49	10.5	1	07/30/2021 07:53	WG1713304
(S) o-Terphenyl	*53.5*			*18.0-148*		*07/30/2021 07:53*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0124	0.0356	1	07/29/2021 13:58	WG1713323
PCB 1221	U		0.0124	0.0356	1	07/29/2021 13:58	WG1713323
PCB 1232	U		0.0124	0.0356	1	07/29/2021 13:58	WG1713323
PCB 1242	U		0.0124	0.0356	1	07/29/2021 13:58	WG1713323
PCB 1248	U		0.00773	0.0178	1	07/29/2021 13:58	WG1713323
PCB 1254	U		0.00773	0.0178	1	07/29/2021 13:58	WG1713323
PCB 1260	U		0.00773	0.0178	1	07/29/2021 13:58	WG1713323
(S) Decachlorobiphenyl	*80.5*			*10.0-135*		*07/29/2021 13:58*	WG1713323
(S) Tetrachloro-m-xylene	*88.0*			*10.0-139*		*07/29/2021 13:58*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00241	0.00629	1	07/29/2021 03:22	WG1713329
Acenaphthene	U		0.00219	0.00629	1	07/29/2021 03:22	WG1713329
Acenaphthylene	U		0.00226	0.00629	1	07/29/2021 03:22	WG1713329
Benzo(a)anthracene	0.00275	J	0.00181	0.00629	1	07/29/2021 03:22	WG1713329
Benzo(a)pyrene	0.00241	J	0.00188	0.00629	1	07/29/2021 03:22	WG1713329
Benzo(b)fluoranthene	0.00420	J	0.00160	0.00629	1	07/29/2021 03:22	WG1713329
Benzo(g,h,i)perylene	0.00338	J	0.00185	0.00629	1	07/29/2021 03:22	WG1713329
Benzo(k)fluoranthene	U		0.00225	0.00629	1	07/29/2021 03:22	WG1713329
Chrysene	0.00244	J	0.00243	0.00629	1	07/29/2021 03:22	WG1713329
Dibenz(a,h)anthracene	U		0.00180	0.00629	1	07/29/2021 03:22	WG1713329
Fluoranthene	0.00551	J	0.00238	0.00629	1	07/29/2021 03:22	WG1713329
Fluorene	U		0.00215	0.00629	1	07/29/2021 03:22	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00244	J	0.00190	0.00629	1	07/29/2021 03:22	WG1713329
Naphthalene	U		0.00427	0.0210	1	07/29/2021 03:22	WG1713329
Phenanthrene	0.00364	J	0.00242	0.00629	1	07/29/2021 03:22	WG1713329
Pyrene	0.00500	J	0.00210	0.00629	1	07/29/2021 03:22	WG1713329
1-Methylnaphthalene	U		0.00470	0.0210	1	07/29/2021 03:22	WG1713329
2-Methylnaphthalene	U		0.00447	0.0210	1	07/29/2021 03:22	WG1713329
2-Chloronaphthalene	U		0.00488	0.0210	1	07/29/2021 03:22	WG1713329
(S) Nitrobenzene-d5	*87.1*			*14.0-149*		*07/29/2021 03:22*	WG1713329
(S) 2-Fluorobiphenyl	*89.7*			*34.0-125*		*07/29/2021 03:22*	WG1713329
(S) p-Terphenyl-d14	*108*			*23.0-120*		*07/29/2021 03:22*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	64.2		1	07/29/2021 16:02	WG1714174

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0280	0.0623	1	07/29/2021 16:31	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.95		0.156	1.56	5	07/29/2021 19:34	WG1713652
Barium	203		0.237	3.89	5	07/29/2021 19:34	WG1713652
Cadmium	U		0.133	1.56	5	07/29/2021 19:34	WG1713652
Chromium	25.4		0.461	7.79	5	07/29/2021 19:34	WG1713652
Lead	32.9		0.154	3.12	5	07/29/2021 19:34	WG1713652
Selenium	0.768	J	0.280	3.89	5	07/29/2021 19:34	WG1713652
Silver	U		0.135	0.779	5	07/29/2021 19:34	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.34	J	2.07	6.23	1	07/30/2021 06:31	WG1713304
Residual Range Organics (RRO)	7.87	J	5.19	15.6	1	07/30/2021 06:31	WG1713304
(S) o-Terphenyl	*34.1*			*18.0-148*		*07/30/2021 06:31*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0184	0.0530	1	07/29/2021 14:07	WG1713323
PCB 1221	U		0.0184	0.0530	1	07/29/2021 14:07	WG1713323
PCB 1232	U		0.0184	0.0530	1	07/29/2021 14:07	WG1713323
PCB 1242	U		0.0184	0.0530	1	07/29/2021 14:07	WG1713323
PCB 1248	U		0.0115	0.0265	1	07/29/2021 14:07	WG1713323
PCB 1254	U		0.0115	0.0265	1	07/29/2021 14:07	WG1713323
PCB 1260	U		0.0115	0.0265	1	07/29/2021 14:07	WG1713323
(S) Decachlorobiphenyl	*66.3*			*10.0-135*		*07/29/2021 14:07*	WG1713323
(S) Tetrachloro-m-xylene	*79.7*			*10.0-139*		*07/29/2021 14:07*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00358	0.00935	1	07/29/2021 03:10	WG1713329
Acenaphthene	U		0.00326	0.00935	1	07/29/2021 03:10	WG1713329
Acenaphthylene	U		0.00336	0.00935	1	07/29/2021 03:10	WG1713329
Benzo(a)anthracene	U		0.00269	0.00935	1	07/29/2021 03:10	WG1713329
Benzo(a)pyrene	U		0.00279	0.00935	1	07/29/2021 03:10	WG1713329
Benzo(b)fluoranthene	U		0.00238	0.00935	1	07/29/2021 03:10	WG1713329
Benzo(g,h,i)perylene	U		0.00276	0.00935	1	07/29/2021 03:10	WG1713329
Benzo(k)fluoranthene	U		0.00335	0.00935	1	07/29/2021 03:10	WG1713329
Chrysene	U		0.00361	0.00935	1	07/29/2021 03:10	WG1713329
Dibenz(a,h)anthracene	U		0.00268	0.00935	1	07/29/2021 03:10	WG1713329
Fluoranthene	U		0.00354	0.00935	1	07/29/2021 03:10	WG1713329
Fluorene	U		0.00319	0.00935	1	07/29/2021 03:10	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00282	0.00935	1	07/29/2021 03:10	WG1713329
Naphthalene	U		0.00636	0.0312	1	07/29/2021 03:10	WG1713329
Phenanthrene	U		0.00360	0.00935	1	07/29/2021 03:10	WG1713329
Pyrene	U		0.00312	0.00935	1	07/29/2021 03:10	WG1713329
1-Methylnaphthalene	U		0.00699	0.0312	1	07/29/2021 03:10	WG1713329
2-Methylnaphthalene	U		0.00665	0.0312	1	07/29/2021 03:10	WG1713329
2-Chloronaphthalene	U		0.00726	0.0312	1	07/29/2021 03:10	WG1713329
(S) Nitrobenzene-d5	*61.3*			*14.0-149*		*07/29/2021 03:10*	WG1713329
(S) 2-Fluorobiphenyl	*59.8*			*34.0-125*		*07/29/2021 03:10*	WG1713329
(S) p-Terphenyl-d14	*92.8*			*23.0-120*		*07/29/2021 03:10*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.6		1	07/29/2021 16:02	WG1714174

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0302	J	0.0201	0.0446	1	07/29/2021 16:33	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.87		0.112	1.12	5	07/29/2021 19:38	WG1713652
Barium	91.8		0.170	2.79	5	07/29/2021 19:38	WG1713652
Cadmium	0.145	J	0.0954	1.12	5	07/29/2021 19:38	WG1713652
Chromium	8.56		0.330	5.58	5	07/29/2021 19:38	WG1713652
Lead	32.5		0.110	2.23	5	07/29/2021 19:38	WG1713652
Selenium	0.321	J	0.201	2.79	5	07/29/2021 19:38	WG1713652
Silver	U		0.0965	0.558	5	07/29/2021 19:38	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	66.5		14.8	44.6	10	07/30/2021 10:54	WG1713304
Residual Range Organics (RRO)	550		37.2	112	10	07/30/2021 10:54	WG1713304
(S) o-Terphenyl	*58.7*			*18.0-148*		*07/30/2021 10:54*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0132	0.0379	1	07/29/2021 14:16	WG1713323
PCB 1221	U		0.0132	0.0379	1	07/29/2021 14:16	WG1713323
PCB 1232	U		0.0132	0.0379	1	07/29/2021 14:16	WG1713323
PCB 1242	U		0.0132	0.0379	1	07/29/2021 14:16	WG1713323
PCB 1248	U		0.00823	0.0190	1	07/29/2021 14:16	WG1713323
PCB 1254	U		0.00823	0.0190	1	07/29/2021 14:16	WG1713323
PCB 1260	U		0.00823	0.0190	1	07/29/2021 14:16	WG1713323
(S) Decachlorobiphenyl	*75.6*			*10.0-135*		*07/29/2021 14:16*	WG1713323
(S) Tetrachloro-m-xylene	*79.9*			*10.0-139*		*07/29/2021 14:16*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.0510		0.00257	0.00669	1	07/29/2021 01:53	WG1713329
Acenaphthene	0.0234		0.00233	0.00669	1	07/29/2021 01:53	WG1713329
Acenaphthylene	0.0288		0.00241	0.00669	1	07/29/2021 01:53	WG1713329
Benzo(a)anthracene	0.0186		0.00193	0.00669	1	07/29/2021 01:53	WG1713329
Benzo(a)pyrene	0.0163		0.00200	0.00669	1	07/29/2021 01:53	WG1713329
Benzo(b)fluoranthene	0.0206		0.00171	0.00669	1	07/29/2021 01:53	WG1713329
Benzo(g,h,i)perylene	0.0631		0.00197	0.00669	1	07/29/2021 01:53	WG1713329
Benzo(k)fluoranthene	0.00581	J	0.00240	0.00669	1	07/29/2021 01:53	WG1713329
Chrysene	0.0152		0.00259	0.00669	1	07/29/2021 01:53	WG1713329
Dibenz(a,h)anthracene	0.00898		0.00192	0.00669	1	07/29/2021 01:53	WG1713329
Fluoranthene	0.0678		0.00253	0.00669	1	07/29/2021 01:53	WG1713329
Fluorene	0.0302		0.00229	0.00669	1	07/29/2021 01:53	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.0249		0.00202	0.00669	1	07/29/2021 01:53	WG1713329
Naphthalene	0.0498		0.00455	0.0223	1	07/29/2021 01:53	WG1713329
Phenanthrene	0.0650		0.00258	0.00669	1	07/29/2021 01:53	WG1713329
Pyrene	0.0594		0.00223	0.00669	1	07/29/2021 01:53	WG1713329
1-Methylnaphthalene	0.0569		0.00501	0.0223	1	07/29/2021 01:53	WG1713329
2-Methylnaphthalene	0.0895		0.00476	0.0223	1	07/29/2021 01:53	WG1713329
2-Chloronaphthalene	U		0.00520	0.0223	1	07/29/2021 01:53	WG1713329
(S) Nitrobenzene-d5	*95.5*			*14.0-149*		*07/29/2021 01:53*	WG1713329
(S) 2-Fluorobiphenyl	*88.0*			*34.0-125*		*07/29/2021 01:53*	WG1713329
(S) p-Terphenyl-d14	*105*			*23.0-120*		*07/29/2021 01:53*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	60.0		1	07/29/2021 16:02	WG1714174

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0300	0.0667	1	07/29/2021 16:36	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.36		0.167	1.67	5	07/29/2021 19:42	WG1713652
Barium	120		0.253	4.17	5	07/29/2021 19:42	WG1713652
Cadmium	U		0.142	1.67	5	07/29/2021 19:42	WG1713652
Chromium	17.1		0.493	8.33	5	07/29/2021 19:42	WG1713652
Lead	13.9		0.165	3.33	5	07/29/2021 19:42	WG1713652
Selenium	0.861	J	0.300	4.17	5	07/29/2021 19:42	WG1713652
Silver	U		0.144	0.833	5	07/29/2021 19:42	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	3.95	J	2.22	6.67	1	07/30/2021 06:58	WG1713304
Residual Range Organics (RRO)	6.48	J	5.55	16.7	1	07/30/2021 06:58	WG1713304
(S) o-Terphenyl	*22.1*			*18.0-148*		*07/30/2021 06:58*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0197	0.0567	1	07/29/2021 14:25	WG1713323
PCB 1221	U		0.0197	0.0567	1	07/29/2021 14:25	WG1713323
PCB 1232	U		0.0197	0.0567	1	07/29/2021 14:25	WG1713323
PCB 1242	U		0.0197	0.0567	1	07/29/2021 14:25	WG1713323
PCB 1248	U		0.0123	0.0283	1	07/29/2021 14:25	WG1713323
PCB 1254	U		0.0123	0.0283	1	07/29/2021 14:25	WG1713323
PCB 1260	U		0.0123	0.0283	1	07/29/2021 14:25	WG1713323
(S) Decachlorobiphenyl	*56.7*			*10.0-135*		*07/29/2021 14:25*	WG1713323
(S) Tetrachloro-m-xylene	*67.3*			*10.0-139*		*07/29/2021 14:25*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.00610	J	0.00383	0.0100	1	07/29/2021 03:30	WG1713329
Acenaphthene	0.0368		0.00348	0.0100	1	07/29/2021 03:30	WG1713329
Acenaphthylene	U		0.00360	0.0100	1	07/29/2021 03:30	WG1713329
Benzo(a)anthracene	0.00310	J	0.00288	0.0100	1	07/29/2021 03:30	WG1713329
Benzo(a)pyrene	U		0.00298	0.0100	1	07/29/2021 03:30	WG1713329
Benzo(b)fluoranthene	U		0.00255	0.0100	1	07/29/2021 03:30	WG1713329
Benzo(g,h,i)perylene	U		0.00295	0.0100	1	07/29/2021 03:30	WG1713329
Benzo(k)fluoranthene	U		0.00358	0.0100	1	07/29/2021 03:30	WG1713329
Chrysene	U		0.00387	0.0100	1	07/29/2021 03:30	WG1713329
Dibenz(a,h)anthracene	U		0.00287	0.0100	1	07/29/2021 03:30	WG1713329
Fluoranthene	0.0192		0.00378	0.0100	1	07/29/2021 03:30	WG1713329
Fluorene	0.0218		0.00342	0.0100	1	07/29/2021 03:30	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00302	0.0100	1	07/29/2021 03:30	WG1713329
Naphthalene	0.0187	J	0.00680	0.0333	1	07/29/2021 03:30	WG1713329
Phenanthrene	0.0460		0.00385	0.0100	1	07/29/2021 03:30	WG1713329
Pyrene	0.0127		0.00333	0.0100	1	07/29/2021 03:30	WG1713329
1-Methylnaphthalene	0.0312	J	0.00748	0.0333	1	07/29/2021 03:30	WG1713329
2-Methylnaphthalene	U		0.00712	0.0333	1	07/29/2021 03:30	WG1713329
2-Chloronaphthalene	U		0.00777	0.0333	1	07/29/2021 03:30	WG1713329
(S) Nitrobenzene-d5	*57.2*			*14.0-149*		*07/29/2021 03:30*	WG1713329
(S) 2-Fluorobiphenyl	*55.9*			*34.0-125*		*07/29/2021 03:30*	WG1713329
(S) p-Terphenyl-d14	*69.4*			*23.0-120*		*07/29/2021 03:30*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.8		1	07/29/2021 16:02	WG1714174

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0976		0.0190	0.0422	1	07/29/2021 16:38	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.06		0.105	1.05	5	07/29/2021 19:45	WG1713652
Barium	72.4		0.160	2.64	5	07/29/2021 19:45	WG1713652
Cadmium	0.335	J	0.0902	1.05	5	07/29/2021 19:45	WG1713652
Chromium	8.47		0.312	5.27	5	07/29/2021 19:45	WG1713652
Lead	60.2		0.104	2.11	5	07/29/2021 19:45	WG1713652
Selenium	0.295	J	0.190	2.64	5	07/29/2021 19:45	WG1713652
Silver	U		0.0912	0.527	5	07/29/2021 19:45	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	141		28.1	84.4	20	07/30/2021 11:35	WG1713304
Residual Range Organics (RRO)	1430		70.2	211	20	07/30/2021 11:35	WG1713304
(S) o-Terphenyl	*61.4*	J7		*18.0-148*		*07/30/2021 11:35*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0124	0.0359	1	07/29/2021 14:34	WG1713323
PCB 1221	U		0.0124	0.0359	1	07/29/2021 14:34	WG1713323
PCB 1232	U		0.0124	0.0359	1	07/29/2021 14:34	WG1713323
PCB 1242	U		0.0124	0.0359	1	07/29/2021 14:34	WG1713323
PCB 1248	U		0.00778	0.0179	1	07/29/2021 14:34	WG1713323
PCB 1254	U		0.00778	0.0179	1	07/29/2021 14:34	WG1713323
PCB 1260	U		0.00778	0.0179	1	07/29/2021 14:34	WG1713323
(S) Decachlorobiphenyl	*66.1*			*10.0-135*		*07/29/2021 14:34*	WG1713323
(S) Tetrachloro-m-xylene	*72.9*			*10.0-139*		*07/29/2021 14:34*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.00444	J	0.00243	0.00633	1	07/29/2021 02:29	WG1713329
Acenaphthene	U		0.00220	0.00633	1	07/29/2021 02:29	WG1713329
Acenaphthylene	0.0109		0.00228	0.00633	1	07/29/2021 02:29	WG1713329
Benzo(a)anthracene	0.00931		0.00182	0.00633	1	07/29/2021 02:29	WG1713329
Benzo(a)pyrene	0.0173		0.00189	0.00633	1	07/29/2021 02:29	WG1713329
Benzo(b)fluoranthene	0.0194		0.00161	0.00633	1	07/29/2021 02:29	WG1713329
Benzo(g,h,i)perylene	0.0384		0.00187	0.00633	1	07/29/2021 02:29	WG1713329
Benzo(k)fluoranthene	0.00527	J	0.00227	0.00633	1	07/29/2021 02:29	WG1713329
Chrysene	0.0129		0.00245	0.00633	1	07/29/2021 02:29	WG1713329
Dibenz(a,h)anthracene	0.00475	J	0.00181	0.00633	1	07/29/2021 02:29	WG1713329
Fluoranthene	0.0235		0.00239	0.00633	1	07/29/2021 02:29	WG1713329
Fluorene	0.00281	J	0.00216	0.00633	1	07/29/2021 02:29	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.0152		0.00191	0.00633	1	07/29/2021 02:29	WG1713329
Naphthalene	0.0235		0.00430	0.0211	1	07/29/2021 02:29	WG1713329
Phenanthrene	0.0255		0.00244	0.00633	1	07/29/2021 02:29	WG1713329
Pyrene	0.0285		0.00211	0.00633	1	07/29/2021 02:29	WG1713329
1-Methylnaphthalene	0.00703	J	0.00474	0.0211	1	07/29/2021 02:29	WG1713329
2-Methylnaphthalene	0.0150	J	0.00450	0.0211	1	07/29/2021 02:29	WG1713329
2-Chloronaphthalene	U		0.00491	0.0211	1	07/29/2021 02:29	WG1713329
(S) Nitrobenzene-d5	*97.8*			*14.0-149*		*07/29/2021 02:29*	WG1713329
(S) 2-Fluorobiphenyl	*87.7*			*34.0-125*		*07/29/2021 02:29*	WG1713329
(S) p-Terphenyl-d14	*100*			*23.0-120*		*07/29/2021 02:29*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.1		1	07/29/2021 16:02	WG1714174

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0372	J	0.0204	0.0454	1	07/29/2021 17:28	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.03		0.114	1.14	5	07/29/2021 19:48	WG1713652
Barium	160		0.173	2.84	5	07/29/2021 19:48	WG1713652
Cadmium	0.193	J	0.0971	1.14	5	07/29/2021 19:48	WG1713652
Chromium	12.7		0.336	5.68	5	07/29/2021 19:48	WG1713652
Lead	13.3		0.112	2.27	5	07/29/2021 19:48	WG1713652
Selenium	0.456	J	0.204	2.84	5	07/29/2021 19:48	WG1713652
Silver	U		0.0982	0.568	5	07/29/2021 19:48	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	16.6	J	15.1	45.4	10	07/30/2021 10:26	WG1713304
Residual Range Organics (RRO)	262		37.8	114	10	07/30/2021 10:26	WG1713304
(S) o-Terphenyl	*60.4*			*18.0-148*		*07/30/2021 10:26*	WG1713304

Sample Narrative:

L1382341-19 WG1713304: Dilution due to matrix impact during extract concentration procedure

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0134	0.0386	1	07/29/2021 14:43	WG1713323
PCB 1221	U		0.0134	0.0386	1	07/29/2021 14:43	WG1713323
PCB 1232	U		0.0134	0.0386	1	07/29/2021 14:43	WG1713323
PCB 1242	U		0.0134	0.0386	1	07/29/2021 14:43	WG1713323
PCB 1248	U		0.00838	0.0193	1	07/29/2021 14:43	WG1713323
PCB 1254	U		0.00838	0.0193	1	07/29/2021 14:43	WG1713323
PCB 1260	U		0.00838	0.0193	1	07/29/2021 14:43	WG1713323
(S) Decachlorobiphenyl	*68.1*			*10.0-135*		*07/29/2021 14:43*	WG1713323
(S) Tetrachloro-m-xylene	*80.6*			*10.0-139*		*07/29/2021 14:43*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00261	0.00681	1	07/29/2021 01:35	WG1713329
Acenaphthene	0.00691		0.00237	0.00681	1	07/29/2021 01:35	WG1713329
Acenaphthylene	U		0.00245	0.00681	1	07/29/2021 01:35	WG1713329
Benzo(a)anthracene	0.00311	J	0.00196	0.00681	1	07/29/2021 01:35	WG1713329
Benzo(a)pyrene	0.00916		0.00203	0.00681	1	07/29/2021 01:35	WG1713329
Benzo(b)fluoranthene	0.00915		0.00174	0.00681	1	07/29/2021 01:35	WG1713329
Benzo(g,h,i)perylene	0.0176		0.00201	0.00681	1	07/29/2021 01:35	WG1713329
Benzo(k)fluoranthene	U		0.00244	0.00681	1	07/29/2021 01:35	WG1713329
Chrysene	0.00383	J	0.00263	0.00681	1	07/29/2021 01:35	WG1713329

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	0.00660	J	0.00195	0.00681	1	07/29/2021 01:35	WG1713329
Fluoranthene	0.00555	J	0.00258	0.00681	1	07/29/2021 01:35	WG1713329
Fluorene	U		0.00233	0.00681	1	07/29/2021 01:35	WG1713329
Indeno(1,2,3-cd)pyrene	0.00532	J	0.00205	0.00681	1	07/29/2021 01:35	WG1713329
Naphthalene	U		0.00463	0.0227	1	07/29/2021 01:35	WG1713329
Phenanthrene	0.00494	J	0.00262	0.00681	1	07/29/2021 01:35	WG1713329
Pyrene	0.00713		0.00227	0.00681	1	07/29/2021 01:35	WG1713329
1-Methylnaphthalene	U		0.00510	0.0227	1	07/29/2021 01:35	WG1713329
2-Methylnaphthalene	U		0.00485	0.0227	1	07/29/2021 01:35	WG1713329
2-Chloronaphthalene	U		0.00529	0.0227	1	07/29/2021 01:35	WG1713329
(S) Nitrobenzene-d5	*93.1*			*14.0-149*		*07/29/2021 01:35*	WG1713329
(S) 2-Fluorobiphenyl	*91.8*			*34.0-125*		*07/29/2021 01:35*	WG1713329
(S) p-Terphenyl-d14	*113*			*23.0-120*		*07/29/2021 01:35*	WG1713329

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	07/29/2021 15:56	WG1714176

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0460		0.0195	0.0433	1	07/29/2021 17:30	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.80		0.108	1.08	5	07/29/2021 19:53	WG1713652
Barium	88.1		0.165	2.71	5	07/29/2021 19:53	WG1713652
Cadmium	0.155	J	0.0927	1.08	5	07/29/2021 19:53	WG1713652
Chromium	8.95		0.321	5.42	5	07/29/2021 19:53	WG1713652
Lead	26.8		0.107	2.17	5	07/29/2021 19:53	WG1713652
Selenium	0.249	J	0.195	2.71	5	07/29/2021 19:53	WG1713652
Silver	U		0.0937	0.542	5	07/29/2021 19:53	WG1713652

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	230		14.4	43.3	10	07/30/2021 10:12	WG1713304
Residual Range Organics (RRO)	1270		36.1	108	10	07/30/2021 10:12	WG1713304
(S) o-Terphenyl	*53.0*			*18.0-148*		*07/30/2021 10:12*	WG1713304

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0128	0.0368	1	07/29/2021 14:52	WG1713323
PCB 1221	U		0.0128	0.0368	1	07/29/2021 14:52	WG1713323
PCB 1232	U		0.0128	0.0368	1	07/29/2021 14:52	WG1713323
PCB 1242	U		0.0128	0.0368	1	07/29/2021 14:52	WG1713323
PCB 1248	U		0.00800	0.0184	1	07/29/2021 14:52	WG1713323
PCB 1254	U		0.00800	0.0184	1	07/29/2021 14:52	WG1713323
PCB 1260	U		0.00800	0.0184	1	07/29/2021 14:52	WG1713323
(S) Decachlorobiphenyl	*78.2*			*10.0-135*		*07/29/2021 14:52*	WG1713323
(S) Tetrachloro-m-xylene	*89.3*			*10.0-139*		*07/29/2021 14:52*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.0121		0.00249	0.00650	1	07/29/2021 02:19	WG1713331
Acenaphthene	0.0988		0.00226	0.00650	1	07/29/2021 02:19	WG1713331
Acenaphthylene	0.0165		0.00234	0.00650	1	07/29/2021 02:19	WG1713331
Benzo(a)anthracene	0.0256		0.00187	0.00650	1	07/29/2021 02:19	WG1713331
Benzo(a)pyrene	0.0272		0.00194	0.00650	1	07/29/2021 02:19	WG1713331
Benzo(b)fluoranthene	0.0259		0.00166	0.00650	1	07/29/2021 02:19	WG1713331
Benzo(g,h,i)perylene	0.0193		0.00192	0.00650	1	07/29/2021 02:19	WG1713331
Benzo(k)fluoranthene	0.00554	J	0.00233	0.00650	1	07/29/2021 02:19	WG1713331
Chrysene	0.0318		0.00251	0.00650	1	07/29/2021 02:19	WG1713331
Dibenz(a,h)anthracene	0.00385	J	0.00186	0.00650	1	07/29/2021 02:19	WG1713331
Fluoranthene	0.0929		0.00246	0.00650	1	07/29/2021 02:19	WG1713331
Fluorene	0.0418		0.00222	0.00650	1	07/29/2021 02:19	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.0122		0.00196	0.00650	1	07/29/2021 02:19	WG1713331
Naphthalene	0.160		0.00442	0.0217	1	07/29/2021 02:19	WG1713331
Phenanthrene	0.141		0.00250	0.00650	1	07/29/2021 02:19	WG1713331
Pyrene	0.113		0.00217	0.00650	1	07/29/2021 02:19	WG1713331
1-Methylnaphthalene	0.0611		0.00487	0.0217	1	07/29/2021 02:19	WG1713331
2-Methylnaphthalene	0.152		0.00463	0.0217	1	07/29/2021 02:19	WG1713331
2-Chloronaphthalene	U		0.00505	0.0217	1	07/29/2021 02:19	WG1713331
(S) Nitrobenzene-d5	*77.0*			*14.0-149*		*07/29/2021 02:19*	WG1713331
(S) 2-Fluorobiphenyl	*82.4*			*34.0-125*		*07/29/2021 02:19*	WG1713331
(S) p-Terphenyl-d14	*101*			*23.0-120*		*07/29/2021 02:19*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	59.6		1	07/29/2021 15:56	WG1714176

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0302	0.0671	1	07/29/2021 17:33	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.94		0.168	1.68	5	07/30/2021 11:39	WG1713654
Barium	161		0.255	4.20	5	07/30/2021 11:39	WG1713654
Cadmium	0.272	J	0.144	1.68	5	07/30/2021 11:39	WG1713654
Chromium	12.2		0.497	8.39	5	07/30/2021 11:39	WG1713654
Lead	47.9		0.166	3.36	5	07/30/2021 11:39	WG1713654
Selenium	0.631	J	0.302	4.20	5	07/30/2021 11:39	WG1713654
Silver	U		0.145	0.839	5	07/30/2021 11:39	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	142		22.3	67.1	10	07/30/2021 02:51	WG1713306
Residual Range Organics (RRO)	828		55.9	168	10	07/30/2021 02:51	WG1713306
(S) o-Terphenyl	*66.6*			*18.0-148*		*07/30/2021 02:51*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0198	0.0571	1	07/29/2021 15:00	WG1713323
PCB 1221	U		0.0198	0.0571	1	07/29/2021 15:00	WG1713323
PCB 1232	U		0.0198	0.0571	1	07/29/2021 15:00	WG1713323
PCB 1242	U		0.0198	0.0571	1	07/29/2021 15:00	WG1713323
PCB 1248	U		0.0124	0.0285	1	07/29/2021 15:00	WG1713323
PCB 1254	U		0.0124	0.0285	1	07/29/2021 15:00	WG1713323
PCB 1260	U		0.0124	0.0285	1	07/29/2021 15:00	WG1713323
(S) Decachlorobiphenyl	*65.9*			*10.0-135*		*07/29/2021 15:00*	WG1713323
(S) Tetrachloro-m-xylene	*76.3*			*10.0-139*		*07/29/2021 15:00*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00386	0.0101	1	07/28/2021 22:20	WG1713331
Acenaphthene	0.0311		0.00351	0.0101	1	07/28/2021 22:20	WG1713331
Acenaphthylene	U		0.00363	0.0101	1	07/28/2021 22:20	WG1713331
Benzo(a)anthracene	U		0.00290	0.0101	1	07/28/2021 22:20	WG1713331
Benzo(a)pyrene	U		0.00300	0.0101	1	07/28/2021 22:20	WG1713331
Benzo(b)fluoranthene	U		0.00257	0.0101	1	07/28/2021 22:20	WG1713331
Benzo(g,h,i)perylene	U		0.00297	0.0101	1	07/28/2021 22:20	WG1713331
Benzo(k)fluoranthene	U		0.00361	0.0101	1	07/28/2021 22:20	WG1713331
Chrysene	U		0.00389	0.0101	1	07/28/2021 22:20	WG1713331
Dibenz(a,h)anthracene	U		0.00289	0.0101	1	07/28/2021 22:20	WG1713331
Fluoranthene	0.00522	J	0.00381	0.0101	1	07/28/2021 22:20	WG1713331
Fluorene	U		0.00344	0.0101	1	07/28/2021 22:20	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00304	0.0101	1	07/28/2021 22:20	WG1713331
Naphthalene	0.0190	J	0.00685	0.0336	1	07/28/2021 22:20	WG1713331
Phenanthrene	0.0117		0.00388	0.0101	1	07/28/2021 22:20	WG1713331
Pyrene	0.00520	J	0.00336	0.0101	1	07/28/2021 22:20	WG1713331
1-Methylnaphthalene	U		0.00754	0.0336	1	07/28/2021 22:20	WG1713331
2-Methylnaphthalene	U		0.00717	0.0336	1	07/28/2021 22:20	WG1713331
2-Chloronaphthalene	U		0.00782	0.0336	1	07/28/2021 22:20	WG1713331
(S) Nitrobenzene-d5	*73.4*			*14.0-149*		*07/28/2021 22:20*	WG1713331
(S) 2-Fluorobiphenyl	*80.7*			*34.0-125*		*07/28/2021 22:20*	WG1713331
(S) p-Terphenyl-d14	*102*			*23.0-120*		*07/28/2021 22:20*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.0		1	07/29/2021 15:56	WG1714176

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0191	0.0425	1	07/29/2021 17:36	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.33		0.106	1.06	5	07/30/2021 11:43	WG1713654
Barium	65.2		0.162	2.66	5	07/30/2021 11:43	WG1713654
Cadmium	U		0.0909	1.06	5	07/30/2021 11:43	WG1713654
Chromium	3.06	J	0.315	5.32	5	07/30/2021 11:43	WG1713654
Lead	7.62		0.105	2.13	5	07/30/2021 11:43	WG1713654
Selenium	0.231	J	0.191	2.66	5	07/30/2021 11:43	WG1713654
Silver	U		0.0920	0.532	5	07/30/2021 11:43	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	124		28.3	85.1	20	07/30/2021 03:46	WG1713306
Residual Range Organics (RRO)	1540		70.8	213	20	07/30/2021 03:46	WG1713306
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*07/30/2021 03:46*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0125	0.0362	1	07/29/2021 15:09	WG1713323
PCB 1221	U		0.0125	0.0362	1	07/29/2021 15:09	WG1713323
PCB 1232	U		0.0125	0.0362	1	07/29/2021 15:09	WG1713323
PCB 1242	U		0.0125	0.0362	1	07/29/2021 15:09	WG1713323
PCB 1248	U		0.00785	0.0181	1	07/29/2021 15:09	WG1713323
PCB 1254	0.0154	J	0.00785	0.0181	1	07/29/2021 15:09	WG1713323
PCB 1260	U		0.00785	0.0181	1	07/29/2021 15:09	WG1713323
(S) Decachlorobiphenyl	*74.0*			*10.0-135*		*07/29/2021 15:09*	WG1713323
(S) Tetrachloro-m-xylene	*85.9*			*10.0-139*		*07/29/2021 15:09*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.00931		0.00245	0.00638	1	07/29/2021 04:58	WG1713331
Acenaphthene	0.00337	J	0.00222	0.00638	1	07/29/2021 04:58	WG1713331
Acenaphthylene	0.0233		0.00230	0.00638	1	07/29/2021 04:58	WG1713331
Benzo(a)anthracene	0.0235		0.00184	0.00638	1	07/29/2021 04:58	WG1713331
Benzo(a)pyrene	0.0582		0.00190	0.00638	1	07/29/2021 04:58	WG1713331
Benzo(b)fluoranthene	0.0397		0.00163	0.00638	1	07/29/2021 04:58	WG1713331
Benzo(g,h,i)perylene	0.0465		0.00188	0.00638	1	07/29/2021 04:58	WG1713331
Benzo(k)fluoranthene	0.00466	J	0.00229	0.00638	1	07/29/2021 04:58	WG1713331
Chrysene	0.0406		0.00247	0.00638	1	07/29/2021 04:58	WG1713331
Dibenz(a,h)anthracene	0.0130		0.00183	0.00638	1	07/29/2021 04:58	WG1713331
Fluoranthene	0.0527		0.00241	0.00638	1	07/29/2021 04:58	WG1713331
Fluorene	0.0140		0.00218	0.00638	1	07/29/2021 04:58	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.0321		0.00192	0.00638	1	07/29/2021 04:58	WG1713331
Naphthalene	0.0197	J	0.00434	0.0213	1	07/29/2021 04:58	WG1713331
Phenanthrene	0.0711		0.00246	0.00638	1	07/29/2021 04:58	WG1713331
Pyrene	0.101		0.00213	0.00638	1	07/29/2021 04:58	WG1713331
1-Methylnaphthalene	0.0125	J	0.00477	0.0213	1	07/29/2021 04:58	WG1713331
2-Methylnaphthalene	0.0153	J	0.00454	0.0213	1	07/29/2021 04:58	WG1713331
2-Chloronaphthalene	U		0.00496	0.0213	1	07/29/2021 04:58	WG1713331
(S) Nitrobenzene-d5	*88.0*			*14.0-149*		*07/29/2021 04:58*	WG1713331
(S) 2-Fluorobiphenyl	*88.1*			*34.0-125*		*07/29/2021 04:58*	WG1713331
(S) p-Terphenyl-d14	*102*			*23.0-120*		*07/29/2021 04:58*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	53.4		1	07/29/2021 15:56	WG1714176

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.121		0.0337	0.0749	1	07/29/2021 17:38	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.25		0.187	1.87	5	07/30/2021 11:46	WG1713654
Barium	118		0.285	4.68	5	07/30/2021 11:46	WG1713654
Cadmium	U		0.160	1.87	5	07/30/2021 11:46	WG1713654
Chromium	13.3		0.554	9.36	5	07/30/2021 11:46	WG1713654
Lead	30.4		0.185	3.74	5	07/30/2021 11:46	WG1713654
Selenium	0.498	J	0.337	4.68	5	07/30/2021 11:46	WG1713654
Silver	U		0.162	0.936	5	07/30/2021 11:46	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	25.6		2.49	7.49	1	07/30/2021 00:47	WG1713306
Residual Range Organics (RRO)	127		6.23	18.7	1	07/30/2021 00:47	WG1713306
(S) o-Terphenyl	*43.6*			*18.0-148*		*07/30/2021 00:47*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0221	0.0636	1	07/29/2021 15:18	WG1713323
PCB 1221	U		0.0221	0.0636	1	07/29/2021 15:18	WG1713323
PCB 1232	U		0.0221	0.0636	1	07/29/2021 15:18	WG1713323
PCB 1242	U		0.0221	0.0636	1	07/29/2021 15:18	WG1713323
PCB 1248	U		0.0138	0.0318	1	07/29/2021 15:18	WG1713323
PCB 1254	U		0.0138	0.0318	1	07/29/2021 15:18	WG1713323
PCB 1260	U		0.0138	0.0318	1	07/29/2021 15:18	WG1713323
(S) Decachlorobiphenyl	*67.0*			*10.0-135*		*07/29/2021 15:18*	WG1713323
(S) Tetrachloro-m-xylene	*78.9*			*10.0-139*		*07/29/2021 15:18*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00431	0.0112	1	07/28/2021 22:40	WG1713331
Acenaphthene	U		0.00391	0.0112	1	07/28/2021 22:40	WG1713331
Acenaphthylene	U		0.00404	0.0112	1	07/28/2021 22:40	WG1713331
Benzo(a)anthracene	U		0.00324	0.0112	1	07/28/2021 22:40	WG1713331
Benzo(a)pyrene	U		0.00335	0.0112	1	07/28/2021 22:40	WG1713331
Benzo(b)fluoranthene	U		0.00286	0.0112	1	07/28/2021 22:40	WG1713331
Benzo(g,h,i)perylene	U		0.00331	0.0112	1	07/28/2021 22:40	WG1713331
Benzo(k)fluoranthene	U		0.00402	0.0112	1	07/28/2021 22:40	WG1713331
Chrysene	U		0.00434	0.0112	1	07/28/2021 22:40	WG1713331
Dibenz(a,h)anthracene	U		0.00322	0.0112	1	07/28/2021 22:40	WG1713331
Fluoranthene	0.00850	J	0.00425	0.0112	1	07/28/2021 22:40	WG1713331
Fluorene	U		0.00384	0.0112	1	07/28/2021 22:40	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00339	0.0112	1	07/28/2021 22:40	WG1713331
Naphthalene	0.0666		0.00764	0.0374	1	07/28/2021 22:40	WG1713331
Phenanthrene	0.0175		0.00432	0.0112	1	07/28/2021 22:40	WG1713331
Pyrene	0.00841	J	0.00374	0.0112	1	07/28/2021 22:40	WG1713331
1-Methylnaphthalene	0.0560		0.00841	0.0374	1	07/28/2021 22:40	WG1713331
2-Methylnaphthalene	0.118		0.00799	0.0374	1	07/28/2021 22:40	WG1713331
2-Chloronaphthalene	U		0.00872	0.0374	1	07/28/2021 22:40	WG1713331
(S) Nitrobenzene-d5	*78.0*			*14.0-149*		*07/28/2021 22:40*	WG1713331
(S) 2-Fluorobiphenyl	*85.9*			*34.0-125*		*07/28/2021 22:40*	WG1713331
(S) p-Terphenyl-d14	*104*			*23.0-120*		*07/28/2021 22:40*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.7		1	07/29/2021 15:56	WG1714176

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0194	0.0432	1	07/29/2021 17:41	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	7.82		0.108	1.08	5	07/30/2021 11:59	WG1713654
Barium	248		0.164	2.70	5	07/30/2021 11:59	WG1713654
Cadmium	0.126	J	0.0923	1.08	5	07/30/2021 11:59	WG1713654
Chromium	17.1		0.319	5.40	5	07/30/2021 11:59	WG1713654
Lead	4.59		0.107	2.16	5	07/30/2021 11:59	WG1713654
Selenium	0.282	J	0.194	2.70	5	07/30/2021 11:59	WG1713654
Silver	U		0.0933	0.540	5	07/30/2021 11:59	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	4.59	J	2.87	8.63	2	07/30/2021 01:42	WG1713306
Residual Range Organics (RRO)	55.1		7.19	21.6	2	07/30/2021 01:42	WG1713306
(S) o-Terphenyl	*68.1*			*18.0-148*		*07/30/2021 01:42*	WG1713306

Sample Narrative:

L1382341-24 WG1713306: Dilution due to matrix impact during extract concentration procedure

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0127	0.0367	1	07/29/2021 15:27	WG1713323
PCB 1221	U		0.0127	0.0367	1	07/29/2021 15:27	WG1713323
PCB 1232	U		0.0127	0.0367	1	07/29/2021 15:27	WG1713323
PCB 1242	U		0.0127	0.0367	1	07/29/2021 15:27	WG1713323
PCB 1248	U		0.00796	0.0183	1	07/29/2021 15:27	WG1713323
PCB 1254	U		0.00796	0.0183	1	07/29/2021 15:27	WG1713323
PCB 1260	U		0.00796	0.0183	1	07/29/2021 15:27	WG1713323
(S) Decachlorobiphenyl	*68.4*			*10.0-135*		*07/29/2021 15:27*	WG1713323
(S) Tetrachloro-m-xylene	*76.8*			*10.0-139*		*07/29/2021 15:27*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00248	0.00647	1	07/29/2021 01:59	WG1713331
Acenaphthene	U		0.00226	0.00647	1	07/29/2021 01:59	WG1713331
Acenaphthylene	U		0.00233	0.00647	1	07/29/2021 01:59	WG1713331
Benzo(a)anthracene	U		0.00187	0.00647	1	07/29/2021 01:59	WG1713331
Benzo(a)pyrene	U		0.00193	0.00647	1	07/29/2021 01:59	WG1713331
Benzo(b)fluoranthene	U		0.00165	0.00647	1	07/29/2021 01:59	WG1713331
Benzo(g,h,i)perylene	0.00465	J	0.00191	0.00647	1	07/29/2021 01:59	WG1713331
Benzo(k)fluoranthene	U		0.00232	0.00647	1	07/29/2021 01:59	WG1713331
Chrysene	U		0.00250	0.00647	1	07/29/2021 01:59	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00186	0.00647	1	07/29/2021 01:59	WG1713331
Fluoranthene	U		0.00245	0.00647	1	07/29/2021 01:59	WG1713331
Fluorene	U		0.00221	0.00647	1	07/29/2021 01:59	WG1713331
Indeno(1,2,3-cd)pyrene	U		0.00195	0.00647	1	07/29/2021 01:59	WG1713331
Naphthalene	U		0.00440	0.0216	1	07/29/2021 01:59	WG1713331
Phenanthrene	U		0.00249	0.00647	1	07/29/2021 01:59	WG1713331
Pyrene	U		0.00216	0.00647	1	07/29/2021 01:59	WG1713331
1-Methylnaphthalene	U		0.00484	0.0216	1	07/29/2021 01:59	WG1713331
2-Methylnaphthalene	U		0.00461	0.0216	1	07/29/2021 01:59	WG1713331
2-Chloronaphthalene	U		0.00503	0.0216	1	07/29/2021 01:59	WG1713331
(S) Nitrobenzene-d5	*77.2*			*14.0-149*		*07/29/2021 01:59*	WG1713331
(S) 2-Fluorobiphenyl	*79.7*			*34.0-125*		*07/29/2021 01:59*	WG1713331
(S) p-Terphenyl-d14	*104*			*23.0-120*		*07/29/2021 01:59*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	37.3		1	07/29/2021 15:56	WG1714176

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0483	0.107	1	07/29/2021 17:43	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.34	J	0.268	2.68	5	07/30/2021 12:02	WG1713654
Barium	55.4		0.408	6.71	5	07/30/2021 12:02	WG1713654
Cadmium	U		0.229	2.68	5	07/30/2021 12:02	WG1713654
Chromium	5.88	J	0.794	13.4	5	07/30/2021 12:02	WG1713654
Lead	6.75		0.266	5.37	5	07/30/2021 12:02	WG1713654
Selenium	U		0.483	6.71	5	07/30/2021 12:02	WG1713654
Silver	U		0.232	1.34	5	07/30/2021 12:02	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	189		7.14	21.5	2	07/30/2021 01:00	WG1713306
Residual Range Organics (RRO)	816		17.9	53.7	2	07/30/2021 01:00	WG1713306
(S) o-Terphenyl	*54.4*			*18.0-148*		*07/30/2021 01:00*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0317	0.0912	1	07/29/2021 15:36	WG1713323
PCB 1221	U		0.0317	0.0912	1	07/29/2021 15:36	WG1713323
PCB 1232	U		0.0317	0.0912	1	07/29/2021 15:36	WG1713323
PCB 1242	U		0.0317	0.0912	1	07/29/2021 15:36	WG1713323
PCB 1248	U		0.0198	0.0456	1	07/29/2021 15:36	WG1713323
PCB 1254	U		0.0198	0.0456	1	07/29/2021 15:36	WG1713323
PCB 1260	U		0.0198	0.0456	1	07/29/2021 15:36	WG1713323
(S) Decachlorobiphenyl	*66.6*			*10.0-135*		*07/29/2021 15:36*	WG1713323
(S) Tetrachloro-m-xylene	*79.8*			*10.0-139*		*07/29/2021 15:36*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00617	0.0161	1	07/28/2021 23:00	WG1713331
Acenaphthene	0.0392		0.00561	0.0161	1	07/28/2021 23:00	WG1713331
Acenaphthylene	U		0.00580	0.0161	1	07/28/2021 23:00	WG1713331
Benzo(a)anthracene	U		0.00464	0.0161	1	07/28/2021 23:00	WG1713331
Benzo(a)pyrene	U		0.00480	0.0161	1	07/28/2021 23:00	WG1713331
Benzo(b)fluoranthene	U		0.00411	0.0161	1	07/28/2021 23:00	WG1713331
Benzo(g,h,i)perylene	U		0.00475	0.0161	1	07/28/2021 23:00	WG1713331
Benzo(k)fluoranthene	U		0.00577	0.0161	1	07/28/2021 23:00	WG1713331
Chrysene	U		0.00623	0.0161	1	07/28/2021 23:00	WG1713331
Dibenz(a,h)anthracene	U		0.00462	0.0161	1	07/28/2021 23:00	WG1713331
Fluoranthene	0.00987	J	0.00609	0.0161	1	07/28/2021 23:00	WG1713331
Fluorene	0.0144	J	0.00550	0.0161	1	07/28/2021 23:00	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00521	J	0.00486	0.0161	1	07/28/2021 23:00	WG1713331
Naphthalene	0.0160	J	0.0109	0.0537	1	07/28/2021 23:00	WG1713331
Phenanthrene	0.0140	J	0.00620	0.0161	1	07/28/2021 23:00	WG1713331
Pyrene	0.0133	J	0.00537	0.0161	1	07/28/2021 23:00	WG1713331
1-Methylnaphthalene	U		0.0120	0.0537	1	07/28/2021 23:00	WG1713331
2-Methylnaphthalene	U		0.0115	0.0537	1	07/28/2021 23:00	WG1713331
2-Chloronaphthalene	U		0.0125	0.0537	1	07/28/2021 23:00	WG1713331
(S) Nitrobenzene-d5	*71.8*			*14.0-149*		*07/28/2021 23:00*	WG1713331
(S) 2-Fluorobiphenyl	*69.9*			*34.0-125*		*07/28/2021 23:00*	WG1713331
(S) p-Terphenyl-d14	*89.2*			*23.0-120*		*07/28/2021 23:00*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	07/29/2021 15:56	WG1714176

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0200	0.0443	1	07/29/2021 17:50	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.35		0.111	1.11	5	07/30/2021 11:23	WG1713654
Barium	53.5		0.168	2.77	5	07/30/2021 11:23	WG1713654
Cadmium	U		0.0948	1.11	5	07/30/2021 11:23	WG1713654
Chromium	5.07	J	0.328	5.54	5	07/30/2021 11:23	WG1713654
Lead	6.17		0.110	2.22	5	07/30/2021 11:23	WG1713654
Selenium	0.450	J	0.200	2.77	5	07/30/2021 11:23	WG1713654
Silver	U		0.0959	0.554	5	07/30/2021 11:23	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	8.30	J3	1.47	4.43	1	07/30/2021 00:05	WG1713306
Residual Range Organics (RRO)	33.9		3.69	11.1	1	07/30/2021 00:05	WG1713306
(S) o-Terphenyl	*65.7*			*18.0-148*		*07/30/2021 00:05*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0131	0.0377	1	07/29/2021 15:44	WG1713323
PCB 1221	U		0.0131	0.0377	1	07/29/2021 15:44	WG1713323
PCB 1232	U		0.0131	0.0377	1	07/29/2021 15:44	WG1713323
PCB 1242	U		0.0131	0.0377	1	07/29/2021 15:44	WG1713323
PCB 1248	U		0.00818	0.0188	1	07/29/2021 15:44	WG1713323
PCB 1254	U		0.00818	0.0188	1	07/29/2021 15:44	WG1713323
PCB 1260	U		0.00818	0.0188	1	07/29/2021 15:44	WG1713323
(S) Decachlorobiphenyl	*63.8*			*10.0-135*		*07/29/2021 15:44*	WG1713323
(S) Tetrachloro-m-xylene	*80.1*			*10.0-139*		*07/29/2021 15:44*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00255	0.00665	1	07/28/2021 23:20	WG1713331
Acenaphthene	U		0.00232	0.00665	1	07/28/2021 23:20	WG1713331
Acenaphthylene	U		0.00239	0.00665	1	07/28/2021 23:20	WG1713331
Benzo(a)anthracene	U		0.00192	0.00665	1	07/28/2021 23:20	WG1713331
Benzo(a)pyrene	U		0.00198	0.00665	1	07/28/2021 23:20	WG1713331
Benzo(b)fluoranthene	U		0.00170	0.00665	1	07/28/2021 23:20	WG1713331
Benzo(g,h,i)perylene	U		0.00196	0.00665	1	07/28/2021 23:20	WG1713331
Benzo(k)fluoranthene	U		0.00238	0.00665	1	07/28/2021 23:20	WG1713331
Chrysene	U		0.00257	0.00665	1	07/28/2021 23:20	WG1713331
Dibenz(a,h)anthracene	U		0.00191	0.00665	1	07/28/2021 23:20	WG1713331
Fluoranthene	U		0.00252	0.00665	1	07/28/2021 23:20	WG1713331
Fluorene	U		0.00227	0.00665	1	07/28/2021 23:20	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00201	0.00665	1	07/28/2021 23:20	WG1713331
Naphthalene	U		0.00452	0.0222	1	07/28/2021 23:20	WG1713331
Phenanthrene	U		0.00256	0.00665	1	07/28/2021 23:20	WG1713331
Pyrene	U		0.00222	0.00665	1	07/28/2021 23:20	WG1713331
1-Methylnaphthalene	U		0.00498	0.0222	1	07/28/2021 23:20	WG1713331
2-Methylnaphthalene	U		0.00473	0.0222	1	07/28/2021 23:20	WG1713331
2-Chloronaphthalene	U		0.00517	0.0222	1	07/28/2021 23:20	WG1713331
(S) Nitrobenzene-d5	*86.1*			*14.0-149*		*07/28/2021 23:20*	WG1713331
(S) 2-Fluorobiphenyl	*89.5*			*34.0-125*		*07/28/2021 23:20*	WG1713331
(S) p-Terphenyl-d14	*118*			*23.0-120*		*07/28/2021 23:20*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	39.4		1	07/29/2021 15:56	WG1714176

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	137		2.28	5.07	50	07/29/2021 19:17	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.32		0.254	2.54	5	07/30/2021 12:05	WG1713654
Barium	120		0.385	6.34	5	07/30/2021 12:05	WG1713654
Cadmium	0.371	J	0.217	2.54	5	07/30/2021 12:05	WG1713654
Chromium	19.2		0.751	12.7	5	07/30/2021 12:05	WG1713654
Lead	253		0.251	5.07	5	07/30/2021 12:05	WG1713654
Selenium	0.469	J	0.456	6.34	5	07/30/2021 12:05	WG1713654
Silver	U		0.219	1.27	5	07/30/2021 12:05	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	8600		67.5	203	20	07/30/2021 03:32	WG1713306
Residual Range Organics (RRO)	16100		844	2540	100	07/30/2021 15:52	WG1713306
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*07/30/2021 03:32*	WG1713306
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*07/30/2021 15:52*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0299	0.0862	1	07/29/2021 15:53	WG1713323
PCB 1221	U		0.0299	0.0862	1	07/29/2021 15:53	WG1713323
PCB 1232	U		0.0299	0.0862	1	07/29/2021 15:53	WG1713323
PCB 1242	U		0.0299	0.0862	1	07/29/2021 15:53	WG1713323
PCB 1248	U		0.0187	0.0431	1	07/29/2021 15:53	WG1713323
PCB 1254	U		0.0187	0.0431	1	07/29/2021 15:53	WG1713323
PCB 1260	U		0.0187	0.0431	1	07/29/2021 15:53	WG1713323
(S) Decachlorobiphenyl	*65.0*			*10.0-135*		*07/29/2021 15:53*	WG1713323
(S) Tetrachloro-m-xylene	*80.8*			*10.0-139*		*07/29/2021 15:53*	WG1713323

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.108		0.00583	0.0152	1	07/29/2021 03:18	WG1713331
Acenaphthene	0.160		0.00530	0.0152	1	07/29/2021 03:18	WG1713331
Acenaphthylene	0.162		0.00548	0.0152	1	07/29/2021 03:18	WG1713331
Benzo(a)anthracene	0.0416		0.00439	0.0152	1	07/29/2021 03:18	WG1713331
Benzo(a)pyrene	0.118		0.00454	0.0152	1	07/29/2021 03:18	WG1713331
Benzo(b)fluoranthene	0.0730		0.00388	0.0152	1	07/29/2021 03:18	WG1713331
Benzo(g,h,i)perylene	0.0340		0.00449	0.0152	1	07/29/2021 03:18	WG1713331
Benzo(k)fluoranthene	0.0209		0.00545	0.0152	1	07/29/2021 03:18	WG1713331
Chrysene	0.0335		0.00588	0.0152	1	07/29/2021 03:18	WG1713331
Dibenz(a,h)anthracene	U		0.00436	0.0152	1	07/29/2021 03:18	WG1713331
Fluoranthene	0.340		0.00576	0.0152	1	07/29/2021 03:18	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluorene	0.148		0.00520	0.0152	1	07/29/2021 03:18	WG1713331
Indeno(1,2,3-cd)pyrene	0.0276		0.00459	0.0152	1	07/29/2021 03:18	WG1713331
Naphthalene	0.809	J	0.207	1.01	20	07/29/2021 10:05	WG1713331
Phenanthrene	0.583		0.00586	0.0152	1	07/29/2021 03:18	WG1713331
Pyrene	0.284		0.00507	0.0152	1	07/29/2021 03:18	WG1713331
1-Methylnaphthalene	U		0.228	1.01	20	07/29/2021 10:05	WG1713331
2-Methylnaphthalene	U		0.217	1.01	20	07/29/2021 10:05	WG1713331
2-Chloronaphthalene	U		0.0118	0.0507	1	07/29/2021 03:18	WG1713331
(S) Nitrobenzene-d5	*125*	J7		*14.0-149*		*07/29/2021 10:05*	WG1713331
(S) Nitrobenzene-d5	*38.7*			*14.0-149*		*07/29/2021 03:18*	WG1713331
(S) 2-Fluorobiphenyl	*73.3*	J7		*34.0-125*		*07/29/2021 10:05*	WG1713331
(S) 2-Fluorobiphenyl	*71.0*			*34.0-125*		*07/29/2021 03:18*	WG1713331
(S) p-Terphenyl-d14	*80.5*			*23.0-120*		*07/29/2021 03:18*	WG1713331
(S) p-Terphenyl-d14	*91.8*	J7		*23.0-120*		*07/29/2021 10:05*	WG1713331

Sample Narrative:

L1382341-27 WG1713331: IS/SURR failed on lower dilution.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	07/29/2021 15:56	WG1714176

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.116		0.0200	0.0444	1	07/29/2021 17:56	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.60		0.111	1.11	5	07/30/2021 12:08	WG1713654
Barium	63.0		0.169	2.77	5	07/30/2021 12:08	WG1713654
Cadmium	0.171	J	0.0948	1.11	5	07/30/2021 12:08	WG1713654
Chromium	8.96		0.328	5.55	5	07/30/2021 12:08	WG1713654
Lead	10.9		0.110	2.22	5	07/30/2021 12:08	WG1713654
Selenium	0.257	J	0.200	2.77	5	07/30/2021 12:08	WG1713654
Silver	U		0.0959	0.555	5	07/30/2021 12:08	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	11.8		1.48	4.44	1	07/30/2021 01:28	WG1713306
Residual Range Organics (RRO)	76.8		3.69	11.1	1	07/30/2021 01:28	WG1713306
(S) o-Terphenyl	*65.6*			*18.0-148*		*07/30/2021 01:28*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0131	0.0377	1	07/29/2021 19:32	WG1713675
PCB 1221	U		0.0131	0.0377	1	07/29/2021 19:32	WG1713675
PCB 1232	U		0.0131	0.0377	1	07/29/2021 19:32	WG1713675
PCB 1242	U		0.0131	0.0377	1	07/29/2021 19:32	WG1713675
PCB 1248	U		0.00819	0.0189	1	07/29/2021 19:32	WG1713675
PCB 1254	U		0.00819	0.0189	1	07/29/2021 19:32	WG1713675
PCB 1260	U		0.00819	0.0189	1	07/29/2021 19:32	WG1713675
(S) Decachlorobiphenyl	*56.7*			*10.0-135*		*07/29/2021 19:32*	WG1713675
(S) Tetrachloro-m-xylene	*52.5*			*10.0-139*		*07/29/2021 19:32*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00255	0.00665	1	07/29/2021 00:00	WG1713331
Acenaphthene	U		0.00232	0.00665	1	07/29/2021 00:00	WG1713331
Acenaphthylene	U		0.00240	0.00665	1	07/29/2021 00:00	WG1713331
Benzo(a)anthracene	0.00245	J	0.00192	0.00665	1	07/29/2021 00:00	WG1713331
Benzo(a)pyrene	0.00257	J	0.00199	0.00665	1	07/29/2021 00:00	WG1713331
Benzo(b)fluoranthene	0.00423	J	0.00170	0.00665	1	07/29/2021 00:00	WG1713331
Benzo(g,h,i)perylene	0.00379	J	0.00196	0.00665	1	07/29/2021 00:00	WG1713331
Benzo(k)fluoranthene	U		0.00238	0.00665	1	07/29/2021 00:00	WG1713331
Chrysene	0.00278	J	0.00257	0.00665	1	07/29/2021 00:00	WG1713331
Dibenz(a,h)anthracene	U		0.00191	0.00665	1	07/29/2021 00:00	WG1713331
Fluoranthene	0.00485	J	0.00252	0.00665	1	07/29/2021 00:00	WG1713331
Fluorene	U		0.00227	0.00665	1	07/29/2021 00:00	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00271	J	0.00201	0.00665	1	07/29/2021 00:00	WG1713331
Naphthalene	U		0.00453	0.0222	1	07/29/2021 00:00	WG1713331
Phenanthrene	0.00323	J	0.00256	0.00665	1	07/29/2021 00:00	WG1713331
Pyrene	0.00553	J	0.00222	0.00665	1	07/29/2021 00:00	WG1713331
1-Methylnaphthalene	U		0.00498	0.0222	1	07/29/2021 00:00	WG1713331
2-Methylnaphthalene	U		0.00474	0.0222	1	07/29/2021 00:00	WG1713331
2-Chloronaphthalene	U		0.00517	0.0222	1	07/29/2021 00:00	WG1713331
(S) Nitrobenzene-d5	*74.2*			*14.0-149*		*07/29/2021 00:00*	WG1713331
(S) 2-Fluorobiphenyl	*79.2*			*34.0-125*		*07/29/2021 00:00*	WG1713331
(S) p-Terphenyl-d14	*104*			*23.0-120*		*07/29/2021 00:00*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.5		1	07/29/2021 15:56	WG1714176

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.159		0.0255	0.0567	1	07/29/2021 17:58	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.27	J	0.142	1.42	5	07/30/2021 12:12	WG1713654
Barium	77.4		0.215	3.54	5	07/30/2021 12:12	WG1713654
Cadmium	U		0.121	1.42	5	07/30/2021 12:12	WG1713654
Chromium	11.4		0.420	7.09	5	07/30/2021 12:12	WG1713654
Lead	7.25		0.140	2.84	5	07/30/2021 12:12	WG1713654
Selenium	0.745	J	0.255	3.54	5	07/30/2021 12:12	WG1713654
Silver	U		0.123	0.709	5	07/30/2021 12:12	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	10.5		1.89	5.67	1	07/30/2021 01:14	WG1713306
Residual Range Organics (RRO)	69.3		4.72	14.2	1	07/30/2021 01:14	WG1713306
(S) o-Terphenyl	*64.0*			*18.0-148*		*07/30/2021 01:14*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0167	0.0482	1	07/30/2021 17:45	WG1713675
PCB 1221	U		0.0167	0.0482	1	07/30/2021 17:45	WG1713675
PCB 1232	U		0.0167	0.0482	1	07/30/2021 17:45	WG1713675
PCB 1242	U		0.0167	0.0482	1	07/30/2021 17:45	WG1713675
PCB 1248	U		0.0105	0.0241	1	07/30/2021 17:45	WG1713675
PCB 1254	U		0.0105	0.0241	1	07/30/2021 17:45	WG1713675
PCB 1260	U		0.0105	0.0241	1	07/30/2021 17:45	WG1713675
(S) Decachlorobiphenyl	*11.7*			*10.0-135*		*07/30/2021 17:45*	WG1713675
(S) Tetrachloro-m-xylene	*19.9*			*10.0-139*		*07/30/2021 17:45*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00326	0.00851	1	07/28/2021 23:40	WG1713331
Acenaphthene	U		0.00296	0.00851	1	07/28/2021 23:40	WG1713331
Acenaphthylene	U		0.00306	0.00851	1	07/28/2021 23:40	WG1713331
Benzo(a)anthracene	U		0.00245	0.00851	1	07/28/2021 23:40	WG1713331
Benzo(a)pyrene	U		0.00254	0.00851	1	07/28/2021 23:40	WG1713331
Benzo(b)fluoranthene	U		0.00217	0.00851	1	07/28/2021 23:40	WG1713331
Benzo(g,h,i)perylene	U		0.00251	0.00851	1	07/28/2021 23:40	WG1713331
Benzo(k)fluoranthene	U		0.00305	0.00851	1	07/28/2021 23:40	WG1713331
Chrysene	U		0.00329	0.00851	1	07/28/2021 23:40	WG1713331
Dibenz(a,h)anthracene	U		0.00244	0.00851	1	07/28/2021 23:40	WG1713331
Fluoranthene	U		0.00322	0.00851	1	07/28/2021 23:40	WG1713331
Fluorene	U		0.00291	0.00851	1	07/28/2021 23:40	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00257	0.00851	1	07/28/2021 23:40	WG1713331
Naphthalene	0.00953	J	0.00578	0.0284	1	07/28/2021 23:40	WG1713331
Phenanthrene	U		0.00327	0.00851	1	07/28/2021 23:40	WG1713331
Pyrene	0.00299	J	0.00284	0.00851	1	07/28/2021 23:40	WG1713331
1-Methylnaphthalene	U		0.00636	0.0284	1	07/28/2021 23:40	WG1713331
2-Methylnaphthalene	U		0.00605	0.0284	1	07/28/2021 23:40	WG1713331
2-Chloronaphthalene	U		0.00661	0.0284	1	07/28/2021 23:40	WG1713331
(S) Nitrobenzene-d5	*72.2*			*14.0-149*		*07/28/2021 23:40*	WG1713331
(S) 2-Fluorobiphenyl	*50.4*			*34.0-125*		*07/28/2021 23:40*	WG1713331
(S) p-Terphenyl-d14	*68.1*			*23.0-120*		*07/28/2021 23:40*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.3		1	07/29/2021 16:44	WG1714177

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0276	J	0.0199	0.0443	1	07/29/2021 18:01	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.27		0.111	1.11	5	07/30/2021 12:15	WG1713654
Barium	152		0.168	2.77	5	07/30/2021 12:15	WG1713654
Cadmium	0.138	J	0.0947	1.11	5	07/30/2021 12:15	WG1713654
Chromium	7.84		0.328	5.54	5	07/30/2021 12:15	WG1713654
Lead	25.5		0.110	2.22	5	07/30/2021 12:15	WG1713654
Selenium	0.454	J	0.199	2.77	5	07/30/2021 12:15	WG1713654
Silver	U		0.0958	0.554	5	07/30/2021 12:15	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	18.4		1.47	4.43	1	07/30/2021 01:56	WG1713306
Residual Range Organics (RRO)	122		3.69	11.1	1	07/30/2021 01:56	WG1713306
(S) o-Terphenyl	*62.7*			*18.0-148*		*07/30/2021 01:56*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0131	0.0377	1	07/29/2021 19:52	WG1713675
PCB 1221	U		0.0131	0.0377	1	07/29/2021 19:52	WG1713675
PCB 1232	U		0.0131	0.0377	1	07/29/2021 19:52	WG1713675
PCB 1242	U		0.0131	0.0377	1	07/29/2021 19:52	WG1713675
PCB 1248	U		0.00817	0.0188	1	07/29/2021 19:52	WG1713675
PCB 1254	U		0.00817	0.0188	1	07/29/2021 19:52	WG1713675
PCB 1260	U		0.00817	0.0188	1	07/29/2021 19:52	WG1713675
(S) Decachlorobiphenyl	*61.3*			*10.0-135*		*07/29/2021 19:52*	WG1713675
(S) Tetrachloro-m-xylene	*61.9*			*10.0-139*		*07/29/2021 19:52*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00255	0.00665	1	07/29/2021 03:58	WG1713331
Acenaphthene	U		0.00232	0.00665	1	07/29/2021 03:58	WG1713331
Acenaphthylene	U		0.00239	0.00665	1	07/29/2021 03:58	WG1713331
Benzo(a)anthracene	0.00628	J	0.00192	0.00665	1	07/29/2021 03:58	WG1713331
Benzo(a)pyrene	0.00946		0.00198	0.00665	1	07/29/2021 03:58	WG1713331
Benzo(b)fluoranthene	0.0113		0.00169	0.00665	1	07/29/2021 03:58	WG1713331
Benzo(g,h,i)perylene	0.00863		0.00196	0.00665	1	07/29/2021 03:58	WG1713331
Benzo(k)fluoranthene	0.00284	J	0.00238	0.00665	1	07/29/2021 03:58	WG1713331
Chrysene	0.0101		0.00257	0.00665	1	07/29/2021 03:58	WG1713331
Dibenz(a,h)anthracene	0.00249	J	0.00191	0.00665	1	07/29/2021 03:58	WG1713331
Fluoranthene	0.00906		0.00251	0.00665	1	07/29/2021 03:58	WG1713331
Fluorene	U		0.00227	0.00665	1	07/29/2021 03:58	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00885		0.00200	0.00665	1	07/29/2021 03:58	WG1713331
Naphthalene	U		0.00452	0.0222	1	07/29/2021 03:58	WG1713331
Phenanthrene	0.00737		0.00256	0.00665	1	07/29/2021 03:58	WG1713331
Pyrene	0.0142		0.00222	0.00665	1	07/29/2021 03:58	WG1713331
1-Methylnaphthalene	U		0.00497	0.0222	1	07/29/2021 03:58	WG1713331
2-Methylnaphthalene	U		0.00473	0.0222	1	07/29/2021 03:58	WG1713331
2-Chloronaphthalene	U		0.00516	0.0222	1	07/29/2021 03:58	WG1713331
(S) Nitrobenzene-d5	*80.8*			*14.0-149*		*07/29/2021 03:58*	WG1713331
(S) 2-Fluorobiphenyl	*83.0*			*34.0-125*		*07/29/2021 03:58*	WG1713331
(S) p-Terphenyl-d14	*104*			*23.0-120*		*07/29/2021 03:58*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.4		1	07/29/2021 16:44	WG1714177

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.137		0.0288	0.0641	1	07/29/2021 18:03	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.10		0.160	1.60	5	07/30/2021 12:18	WG1713654
Barium	689		0.243	4.00	5	07/30/2021 12:18	WG1713654
Cadmium	0.217	J	0.137	1.60	5	07/30/2021 12:18	WG1713654
Chromium	13.2		0.474	8.01	5	07/30/2021 12:18	WG1713654
Lead	38.5		0.159	3.20	5	07/30/2021 12:18	WG1713654
Selenium	0.528	J	0.288	4.00	5	07/30/2021 12:18	WG1713654
Silver	U		0.139	0.801	5	07/30/2021 12:18	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	24.5		2.13	6.41	1	07/29/2021 23:38	WG1713306
Residual Range Organics (RRO)	121		5.33	16.0	1	07/29/2021 23:38	WG1713306
(S) o-Terphenyl	*50.8*			*18.0-148*		*07/29/2021 23:38*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U	J5	0.0189	0.0545	1	08/03/2021 01:04	WG1715433
PCB 1221	U		0.0189	0.0545	1	08/03/2021 01:04	WG1715433
PCB 1232	U		0.0189	0.0545	1	08/03/2021 01:04	WG1715433
PCB 1242	U		0.0189	0.0545	1	08/03/2021 01:04	WG1715433
PCB 1248	U		0.0118	0.0272	1	08/03/2021 01:04	WG1715433
PCB 1254	U		0.0118	0.0272	1	08/03/2021 01:04	WG1715433
PCB 1260	U		0.0118	0.0272	1	08/03/2021 01:04	WG1715433
(S) Decachlorobiphenyl	*39.6*			*10.0-135*		*08/03/2021 01:04*	WG1715433
(S) Tetrachloro-m-xylene	*34.8*			*10.0-139*		*08/03/2021 01:04*	WG1715433

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00368	0.00961	1	07/29/2021 00:20	WG1713331
Acenaphthene	U		0.00335	0.00961	1	07/29/2021 00:20	WG1713331
Acenaphthylene	0.00594	J	0.00346	0.00961	1	07/29/2021 00:20	WG1713331
Benzo(a)anthracene	0.00301	J	0.00277	0.00961	1	07/29/2021 00:20	WG1713331
Benzo(a)pyrene	0.00332	J	0.00287	0.00961	1	07/29/2021 00:20	WG1713331
Benzo(b)fluoranthene	0.00498	J	0.00245	0.00961	1	07/29/2021 00:20	WG1713331
Benzo(g,h,i)perylene	0.00775	J	0.00283	0.00961	1	07/29/2021 00:20	WG1713331
Benzo(k)fluoranthene	U		0.00344	0.00961	1	07/29/2021 00:20	WG1713331
Chrysene	U		0.00372	0.00961	1	07/29/2021 00:20	WG1713331
Dibenz(a,h)anthracene	U		0.00275	0.00961	1	07/29/2021 00:20	WG1713331
Fluoranthene	0.0116		0.00364	0.00961	1	07/29/2021 00:20	WG1713331
Fluorene	U		0.00328	0.00961	1	07/29/2021 00:20	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00589	J	0.00290	0.00961	1	07/29/2021 00:20	WG1713331
Naphthalene	0.0452		0.00653	0.0320	1	07/29/2021 00:20	WG1713331
Phenanthrene	0.0213		0.00370	0.00961	1	07/29/2021 00:20	WG1713331
Pyrene	0.00870	J	0.00320	0.00961	1	07/29/2021 00:20	WG1713331
1-Methylnaphthalene	U		0.00719	0.0320	1	07/29/2021 00:20	WG1713331
2-Methylnaphthalene	0.00830	J	0.00684	0.0320	1	07/29/2021 00:20	WG1713331
2-Chloronaphthalene	U		0.00746	0.0320	1	07/29/2021 00:20	WG1713331
(S) Nitrobenzene-d5	*79.0*			*14.0-149*		*07/29/2021 00:20*	WG1713331
(S) 2-Fluorobiphenyl	*76.0*			*34.0-125*		*07/29/2021 00:20*	WG1713331
(S) p-Terphenyl-d14	*101*			*23.0-120*		*07/29/2021 00:20*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	07/29/2021 16:44	WG1714177

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0749		0.0186	0.0413	1	07/29/2021 18:06	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.05		0.103	1.03	5	07/30/2021 12:21	WG1713654
Barium	53.9		0.157	2.58	5	07/30/2021 12:21	WG1713654
Cadmium	U		0.0882	1.03	5	07/30/2021 12:21	WG1713654
Chromium	4.44	J	0.305	5.16	5	07/30/2021 12:21	WG1713654
Lead	2.09		0.102	2.06	5	07/30/2021 12:21	WG1713654
Selenium	0.402	J	0.186	2.58	5	07/30/2021 12:21	WG1713654
Silver	U		0.0892	0.516	5	07/30/2021 12:21	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	800	J	274	825	200	07/30/2021 04:13	WG1713306
Residual Range Organics (RRO)	6060		687	2060	200	07/30/2021 04:13	WG1713306
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*07/30/2021 04:13*	WG1713306

Sample Narrative:

L1382341-32 WG1713306: Cannot run at lower dilution due to viscosity of extract

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0122	0.0351	1	07/29/2021 20:02	WG1713675
PCB 1221	U		0.0122	0.0351	1	07/29/2021 20:02	WG1713675
PCB 1232	U		0.0122	0.0351	1	07/29/2021 20:02	WG1713675
PCB 1242	U		0.0122	0.0351	1	07/29/2021 20:02	WG1713675
PCB 1248	U		0.00761	0.0175	1	07/29/2021 20:02	WG1713675
PCB 1254	U		0.00761	0.0175	1	07/29/2021 20:02	WG1713675
PCB 1260	U		0.00761	0.0175	1	07/29/2021 20:02	WG1713675
(S) Decachlorobiphenyl	*38.0*			*10.0-135*		*07/29/2021 20:02*	WG1713675
(S) Tetrachloro-m-xylene	*42.0*			*10.0-139*		*07/29/2021 20:02*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00237	0.00619	1	07/29/2021 04:38	WG1713331
Acenaphthene	U		0.00216	0.00619	1	07/29/2021 04:38	WG1713331
Acenaphthylene	U		0.00223	0.00619	1	07/29/2021 04:38	WG1713331
Benzo(a)anthracene	0.0229		0.00178	0.00619	1	07/29/2021 04:38	WG1713331
Benzo(a)pyrene	0.0928		0.00185	0.00619	1	07/29/2021 04:38	WG1713331
Benzo(b)fluoranthene	0.0418		0.00158	0.00619	1	07/29/2021 04:38	WG1713331
Benzo(g,h,i)perylene	0.0449		0.00183	0.00619	1	07/29/2021 04:38	WG1713331
Benzo(k)fluoranthene	U		0.00222	0.00619	1	07/29/2021 04:38	WG1713331
Chrysene	U		0.00239	0.00619	1	07/29/2021 04:38	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	0.0191		0.00177	0.00619	1	07/29/2021 04:38	WG1713331
Fluoranthene	0.0109		0.00234	0.00619	1	07/29/2021 04:38	WG1713331
Fluorene	0.00600	J	0.00211	0.00619	1	07/29/2021 04:38	WG1713331
Indeno(1,2,3-cd)pyrene	0.0341		0.00187	0.00619	1	07/29/2021 04:38	WG1713331
Naphthalene	U		0.00421	0.0206	1	07/29/2021 04:38	WG1713331
Phenanthrene	0.0348		0.00238	0.00619	1	07/29/2021 04:38	WG1713331
Pyrene	0.0472		0.00206	0.00619	1	07/29/2021 04:38	WG1713331
1-Methylnaphthalene	U		0.00463	0.0206	1	07/29/2021 04:38	WG1713331
2-Methylnaphthalene	U		0.00440	0.0206	1	07/29/2021 04:38	WG1713331
2-Chloronaphthalene	U		0.00481	0.0206	1	07/29/2021 04:38	WG1713331
(S) Nitrobenzene-d5	*91.4*			*14.0-149*		*07/29/2021 04:38*	WG1713331
(S) 2-Fluorobiphenyl	*83.6*			*34.0-125*		*07/29/2021 04:38*	WG1713331
(S) p-Terphenyl-d14	*94.9*			*23.0-120*		*07/29/2021 04:38*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	39.2		1	07/29/2021 16:44	WG1714177

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0459	0.102	1	07/29/2021 18:08	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.70		0.255	2.55	5	07/30/2021 12:25	WG1713654
Barium	102		0.387	6.37	5	07/30/2021 12:25	WG1713654
Cadmium	U		0.218	2.55	5	07/30/2021 12:25	WG1713654
Chromium	17.9		0.755	12.7	5	07/30/2021 12:25	WG1713654
Lead	6.78		0.252	5.10	5	07/30/2021 12:25	WG1713654
Selenium	0.709	J	0.459	6.37	5	07/30/2021 12:25	WG1713654
Silver	U		0.220	1.27	5	07/30/2021 12:25	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	39.0		3.39	10.2	1	07/29/2021 23:24	WG1713306
Residual Range Organics (RRO)	225		8.49	25.5	1	07/29/2021 23:24	WG1713306
(S) o-Terphenyl	*51.7*			*18.0-148*		*07/29/2021 23:24*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0301	0.0867	1	07/29/2021 20:12	WG1713675
PCB 1221	U		0.0301	0.0867	1	07/29/2021 20:12	WG1713675
PCB 1232	U		0.0301	0.0867	1	07/29/2021 20:12	WG1713675
PCB 1242	U		0.0301	0.0867	1	07/29/2021 20:12	WG1713675
PCB 1248	U		0.0188	0.0433	1	07/29/2021 20:12	WG1713675
PCB 1254	U		0.0188	0.0433	1	07/29/2021 20:12	WG1713675
PCB 1260	U		0.0188	0.0433	1	07/29/2021 20:12	WG1713675
(S) Decachlorobiphenyl	*49.6*			*10.0-135*		*07/29/2021 20:12*	WG1713675
(S) Tetrachloro-m-xylene	*57.2*			*10.0-139*		*07/29/2021 20:12*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00586	0.0153	1	07/29/2021 00:39	WG1713331
Acenaphthene	U		0.00533	0.0153	1	07/29/2021 00:39	WG1713331
Acenaphthylene	U		0.00551	0.0153	1	07/29/2021 00:39	WG1713331
Benzo(a)anthracene	U		0.00441	0.0153	1	07/29/2021 00:39	WG1713331
Benzo(a)pyrene	U		0.00456	0.0153	1	07/29/2021 00:39	WG1713331
Benzo(b)fluoranthene	U		0.00390	0.0153	1	07/29/2021 00:39	WG1713331
Benzo(g,h,i)perylene	U		0.00451	0.0153	1	07/29/2021 00:39	WG1713331
Benzo(k)fluoranthene	U		0.00548	0.0153	1	07/29/2021 00:39	WG1713331
Chrysene	U		0.00591	0.0153	1	07/29/2021 00:39	WG1713331
Dibenz(a,h)anthracene	U		0.00438	0.0153	1	07/29/2021 00:39	WG1713331
Fluoranthene	U		0.00579	0.0153	1	07/29/2021 00:39	WG1713331
Fluorene	U		0.00523	0.0153	1	07/29/2021 00:39	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00461	0.0153	1	07/29/2021 00:39	WG1713331
Naphthalene	U		0.0104	0.0510	1	07/29/2021 00:39	WG1713331
Phenanthrene	0.00645	J	0.00589	0.0153	1	07/29/2021 00:39	WG1713331
Pyrene	0.00632	J	0.00510	0.0153	1	07/29/2021 00:39	WG1713331
1-Methylnaphthalene	U		0.0114	0.0510	1	07/29/2021 00:39	WG1713331
2-Methylnaphthalene	U		0.0109	0.0510	1	07/29/2021 00:39	WG1713331
2-Chloronaphthalene	U		0.0119	0.0510	1	07/29/2021 00:39	WG1713331
(S) Nitrobenzene-d5	*81.3*			*14.0-149*		*07/29/2021 00:39*	WG1713331
(S) 2-Fluorobiphenyl	*80.7*			*34.0-125*		*07/29/2021 00:39*	WG1713331
(S) p-Terphenyl-d14	*97.1*			*23.0-120*		*07/29/2021 00:39*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.6		1	07/29/2021 16:44	WG1714177

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0215	0.0479	1	07/29/2021 18:11	WG1713405

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.76		0.120	1.20	5	07/30/2021 12:28	WG1713654
Barium	111		0.182	2.99	5	07/30/2021 12:28	WG1713654
Cadmium	U		0.102	1.20	5	07/30/2021 12:28	WG1713654
Chromium	11.9		0.354	5.98	5	07/30/2021 12:28	WG1713654
Lead	4.57		0.118	2.39	5	07/30/2021 12:28	WG1713654
Selenium	0.551	J	0.215	2.99	5	07/30/2021 12:28	WG1713654
Silver	U		0.103	0.598	5	07/30/2021 12:28	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	3.78	J	1.59	4.79	1	07/29/2021 22:56	WG1713306
Residual Range Organics (RRO)	4.49	J	3.98	12.0	1	07/29/2021 22:56	WG1713306
(S) o-Terphenyl	*63.9*			*18.0-148*		*07/29/2021 22:56*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0141	0.0407	1	07/29/2021 20:22	WG1713675
PCB 1221	U		0.0141	0.0407	1	07/29/2021 20:22	WG1713675
PCB 1232	U		0.0141	0.0407	1	07/29/2021 20:22	WG1713675
PCB 1242	U		0.0141	0.0407	1	07/29/2021 20:22	WG1713675
PCB 1248	U		0.00883	0.0203	1	07/29/2021 20:22	WG1713675
PCB 1254	U		0.00883	0.0203	1	07/29/2021 20:22	WG1713675
PCB 1260	U		0.00883	0.0203	1	07/29/2021 20:22	WG1713675
(S) Decachlorobiphenyl	*58.0*			*10.0-135*		*07/29/2021 20:22*	WG1713675
(S) Tetrachloro-m-xylene	*58.0*			*10.0-139*		*07/29/2021 20:22*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00275	0.00718	1	07/29/2021 00:59	WG1713331
Acenaphthene	U		0.00250	0.00718	1	07/29/2021 00:59	WG1713331
Acenaphthylene	U		0.00258	0.00718	1	07/29/2021 00:59	WG1713331
Benzo(a)anthracene	U		0.00207	0.00718	1	07/29/2021 00:59	WG1713331
Benzo(a)pyrene	U		0.00214	0.00718	1	07/29/2021 00:59	WG1713331
Benzo(b)fluoranthene	U		0.00183	0.00718	1	07/29/2021 00:59	WG1713331
Benzo(g,h,i)perylene	U		0.00212	0.00718	1	07/29/2021 00:59	WG1713331
Benzo(k)fluoranthene	U		0.00257	0.00718	1	07/29/2021 00:59	WG1713331
Chrysene	U		0.00278	0.00718	1	07/29/2021 00:59	WG1713331
Dibenz(a,h)anthracene	U		0.00206	0.00718	1	07/29/2021 00:59	WG1713331
Fluoranthene	U		0.00272	0.00718	1	07/29/2021 00:59	WG1713331
Fluorene	U		0.00245	0.00718	1	07/29/2021 00:59	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00217	0.00718	1	07/29/2021 00:59	WG1713331
Naphthalene	U		0.00488	0.0239	1	07/29/2021 00:59	WG1713331
Phenanthrene	U		0.00276	0.00718	1	07/29/2021 00:59	WG1713331
Pyrene	U		0.00239	0.00718	1	07/29/2021 00:59	WG1713331
1-Methylnaphthalene	U		0.00537	0.0239	1	07/29/2021 00:59	WG1713331
2-Methylnaphthalene	U		0.00511	0.0239	1	07/29/2021 00:59	WG1713331
2-Chloronaphthalene	U		0.00558	0.0239	1	07/29/2021 00:59	WG1713331
(S) Nitrobenzene-d5	*67.9*			*14.0-149*		*07/29/2021 00:59*	WG1713331
(S) 2-Fluorobiphenyl	*70.5*			*34.0-125*		*07/29/2021 00:59*	WG1713331
(S) p-Terphenyl-d14	*92.5*			*23.0-120*		*07/29/2021 00:59*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.8		1	07/29/2021 16:44	WG1714177

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0518		0.0192	0.0427	1	07/29/2021 16:05	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.50		0.107	1.07	5	07/30/2021 12:40	WG1713654
Barium	59.6		0.162	2.67	5	07/30/2021 12:40	WG1713654
Cadmium	0.190	J	0.0912	1.07	5	07/30/2021 12:40	WG1713654
Chromium	7.38		0.316	5.33	5	07/30/2021 12:40	WG1713654
Lead	8.51		0.106	2.13	5	07/30/2021 12:40	WG1713654
Selenium	0.275	J	0.192	2.67	5	07/30/2021 12:40	WG1713654
Silver	0.144	J	0.0923	0.533	5	07/30/2021 12:40	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	25.0		1.42	4.27	1	07/30/2021 02:09	WG1713306
Residual Range Organics (RRO)	132		3.55	10.7	1	07/30/2021 02:09	WG1713306
(S) o-Terphenyl	*55.1*			*18.0-148*		*07/30/2021 02:09*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0126	0.0363	1	07/29/2021 20:32	WG1713675
PCB 1221	U		0.0126	0.0363	1	07/29/2021 20:32	WG1713675
PCB 1232	U		0.0126	0.0363	1	07/29/2021 20:32	WG1713675
PCB 1242	U		0.0126	0.0363	1	07/29/2021 20:32	WG1713675
PCB 1248	U		0.00787	0.0181	1	07/29/2021 20:32	WG1713675
PCB 1254	U		0.00787	0.0181	1	07/29/2021 20:32	WG1713675
PCB 1260	U		0.00787	0.0181	1	07/29/2021 20:32	WG1713675
(S) Decachlorobiphenyl	*98.3*			*10.0-135*		*07/29/2021 20:32*	WG1713675
(S) Tetrachloro-m-xylene	*101*			*10.0-139*		*07/29/2021 20:32*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00245	0.00640	1	07/29/2021 04:18	WG1713331
Acenaphthene	U		0.00223	0.00640	1	07/29/2021 04:18	WG1713331
Acenaphthylene	0.00285	J	0.00230	0.00640	1	07/29/2021 04:18	WG1713331
Benzo(a)anthracene	0.00867		0.00185	0.00640	1	07/29/2021 04:18	WG1713331
Benzo(a)pyrene	0.0105		0.00191	0.00640	1	07/29/2021 04:18	WG1713331
Benzo(b)fluoranthene	0.0117		0.00163	0.00640	1	07/29/2021 04:18	WG1713331
Benzo(g,h,i)perylene	0.0115		0.00189	0.00640	1	07/29/2021 04:18	WG1713331
Benzo(k)fluoranthene	0.00353	J	0.00229	0.00640	1	07/29/2021 04:18	WG1713331
Chrysene	0.0103		0.00247	0.00640	1	07/29/2021 04:18	WG1713331
Dibenz(a,h)anthracene	0.00239	J	0.00183	0.00640	1	07/29/2021 04:18	WG1713331
Fluoranthene	0.0190		0.00242	0.00640	1	07/29/2021 04:18	WG1713331
Fluorene	U		0.00219	0.00640	1	07/29/2021 04:18	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00805		0.00193	0.00640	1	07/29/2021 04:18	WG1713331
Naphthalene	0.00675	J	0.00435	0.0213	1	07/29/2021 04:18	WG1713331
Phenanthrene	0.0101		0.00246	0.00640	1	07/29/2021 04:18	WG1713331
Pyrene	0.0246		0.00213	0.00640	1	07/29/2021 04:18	WG1713331
1-Methylnaphthalene	U		0.00479	0.0213	1	07/29/2021 04:18	WG1713331
2-Methylnaphthalene	U		0.00455	0.0213	1	07/29/2021 04:18	WG1713331
2-Chloronaphthalene	U		0.00497	0.0213	1	07/29/2021 04:18	WG1713331
(S) Nitrobenzene-d5	*80.8*			*14.0-149*		*07/29/2021 04:18*	WG1713331
(S) 2-Fluorobiphenyl	*80.6*			*34.0-125*		*07/29/2021 04:18*	WG1713331
(S) p-Terphenyl-d14	*102*			*23.0-120*		*07/29/2021 04:18*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	63.0		1	07/29/2021 16:44	WG1714177

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.321		0.0286	0.0635	1	07/29/2021 16:41	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.69		0.159	1.59	5	07/30/2021 12:44	WG1713654
Barium	1090		0.241	3.97	5	07/30/2021 12:44	WG1713654
Cadmium	1.33	J	0.136	1.59	5	07/30/2021 12:44	WG1713654
Chromium	12.5		0.470	7.94	5	07/30/2021 12:44	WG1713654
Lead	101		0.157	3.18	5	07/30/2021 12:44	WG1713654
Selenium	0.420	J	0.286	3.97	5	07/30/2021 12:44	WG1713654
Silver	0.299	J	0.137	0.794	5	07/30/2021 12:44	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	41.1		2.11	6.35	1	07/30/2021 02:23	WG1713306
Residual Range Organics (RRO)	218		5.29	15.9	1	07/30/2021 02:23	WG1713306
(S) o-Terphenyl	*45.6*			*18.0-148*		*07/30/2021 02:23*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0187	0.0540	1	07/30/2021 10:28	WG1713675
PCB 1221	U		0.0187	0.0540	1	07/30/2021 10:28	WG1713675
PCB 1232	U		0.0187	0.0540	1	07/30/2021 10:28	WG1713675
PCB 1242	U		0.0187	0.0540	1	07/30/2021 10:28	WG1713675
PCB 1248	U		0.0117	0.0270	1	07/30/2021 10:28	WG1713675
PCB 1254	U		0.0117	0.0270	1	07/30/2021 10:28	WG1713675
PCB 1260	U		0.0117	0.0270	1	07/30/2021 10:28	WG1713675
(S) Decachlorobiphenyl	*58.3*			*10.0-135*		*07/30/2021 10:28*	WG1713675
(S) Tetrachloro-m-xylene	*75.4*			*10.0-139*		*07/30/2021 10:28*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.0175		0.00365	0.00953	1	07/29/2021 03:38	WG1713331
Acenaphthene	0.0345		0.00332	0.00953	1	07/29/2021 03:38	WG1713331
Acenaphthylene	0.0243		0.00343	0.00953	1	07/29/2021 03:38	WG1713331
Benzo(a)anthracene	0.0451		0.00275	0.00953	1	07/29/2021 03:38	WG1713331
Benzo(a)pyrene	0.0519		0.00284	0.00953	1	07/29/2021 03:38	WG1713331
Benzo(b)fluoranthene	0.0896		0.00243	0.00953	1	07/29/2021 03:38	WG1713331
Benzo(g,h,i)perylene	0.0516		0.00281	0.00953	1	07/29/2021 03:38	WG1713331
Benzo(k)fluoranthene	0.0322		0.00341	0.00953	1	07/29/2021 03:38	WG1713331
Chrysene	0.0726		0.00368	0.00953	1	07/29/2021 03:38	WG1713331
Dibenz(a,h)anthracene	0.00827	J	0.00273	0.00953	1	07/29/2021 03:38	WG1713331
Fluoranthene	0.133		0.00360	0.00953	1	07/29/2021 03:38	WG1713331
Fluorene	0.0295		0.00326	0.00953	1	07/29/2021 03:38	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.0449		0.00287	0.00953	1	07/29/2021 03:38	WG1713331
Naphthalene	0.262		0.00648	0.0318	1	07/29/2021 03:38	WG1713331
Phenanthrene	0.136		0.00367	0.00953	1	07/29/2021 03:38	WG1713331
Pyrene	0.119		0.00318	0.00953	1	07/29/2021 03:38	WG1713331
1-Methylnaphthalene	0.0306	J	0.00713	0.0318	1	07/29/2021 03:38	WG1713331
2-Methylnaphthalene	0.0594		0.00678	0.0318	1	07/29/2021 03:38	WG1713331
2-Chloronaphthalene	U		0.00740	0.0318	1	07/29/2021 03:38	WG1713331
(S) Nitrobenzene-d5	*75.3*			*14.0-149*		*07/29/2021 03:38*	WG1713331
(S) 2-Fluorobiphenyl	*77.6*			*34.0-125*		*07/29/2021 03:38*	WG1713331
(S) p-Terphenyl-d14	*101*			*23.0-120*		*07/29/2021 03:38*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.7		1	07/29/2021 16:44	WG1714177

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0365	J	0.0254	0.0565	1	07/29/2021 16:43	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.83		0.141	1.41	5	07/30/2021 12:47	WG1713654
Barium	184		0.215	3.53	5	07/30/2021 12:47	WG1713654
Cadmium	0.136	J	0.121	1.41	5	07/30/2021 12:47	WG1713654
Chromium	27.7		0.418	7.07	5	07/30/2021 12:47	WG1713654
Lead	12.7		0.140	2.83	5	07/30/2021 12:47	WG1713654
Selenium	1.06	J	0.254	3.53	5	07/30/2021 12:47	WG1713654
Silver	U		0.122	0.707	5	07/30/2021 12:47	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.88	5.65	1	07/29/2021 23:10	WG1713306
Residual Range Organics (RRO)	U		4.71	14.1	1	07/29/2021 23:10	WG1713306
(S) o-Terphenyl	*60.1*			*18.0-148*		*07/29/2021 23:10*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0167	0.0481	1	07/29/2021 20:52	WG1713675
PCB 1221	U		0.0167	0.0481	1	07/29/2021 20:52	WG1713675
PCB 1232	U		0.0167	0.0481	1	07/29/2021 20:52	WG1713675
PCB 1242	U		0.0167	0.0481	1	07/29/2021 20:52	WG1713675
PCB 1248	U		0.0104	0.0240	1	07/29/2021 20:52	WG1713675
PCB 1254	U		0.0104	0.0240	1	07/29/2021 20:52	WG1713675
PCB 1260	U		0.0104	0.0240	1	07/29/2021 20:52	WG1713675
(S) Decachlorobiphenyl	*58.1*			*10.0-135*		*07/29/2021 20:52*	WG1713675
(S) Tetrachloro-m-xylene	*61.7*			*10.0-139*		*07/29/2021 20:52*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00325	0.00848	1	07/29/2021 01:19	WG1713331
Acenaphthene	U		0.00295	0.00848	1	07/29/2021 01:19	WG1713331
Acenaphthylene	U		0.00305	0.00848	1	07/29/2021 01:19	WG1713331
Benzo(a)anthracene	U		0.00245	0.00848	1	07/29/2021 01:19	WG1713331
Benzo(a)pyrene	U		0.00253	0.00848	1	07/29/2021 01:19	WG1713331
Benzo(b)fluoranthene	U		0.00216	0.00848	1	07/29/2021 01:19	WG1713331
Benzo(g,h,i)perylene	U		0.00250	0.00848	1	07/29/2021 01:19	WG1713331
Benzo(k)fluoranthene	U		0.00304	0.00848	1	07/29/2021 01:19	WG1713331
Chrysene	U		0.00328	0.00848	1	07/29/2021 01:19	WG1713331
Dibenz(a,h)anthracene	U		0.00243	0.00848	1	07/29/2021 01:19	WG1713331
Fluoranthene	U		0.00321	0.00848	1	07/29/2021 01:19	WG1713331
Fluorene	U		0.00290	0.00848	1	07/29/2021 01:19	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00256	0.00848	1	07/29/2021 01:19	WG1713331
Naphthalene	U		0.00577	0.0283	1	07/29/2021 01:19	WG1713331
Phenanthrene	U		0.00327	0.00848	1	07/29/2021 01:19	WG1713331
Pyrene	U		0.00283	0.00848	1	07/29/2021 01:19	WG1713331
1-Methylnaphthalene	U		0.00635	0.0283	1	07/29/2021 01:19	WG1713331
2-Methylnaphthalene	U		0.00604	0.0283	1	07/29/2021 01:19	WG1713331
2-Chloronaphthalene	U		0.00659	0.0283	1	07/29/2021 01:19	WG1713331
(S) Nitrobenzene-d5	*66.6*			*14.0-149*		*07/29/2021 01:19*	WG1713331
(S) 2-Fluorobiphenyl	*54.0*			*34.0-125*		*07/29/2021 01:19*	WG1713331
(S) p-Terphenyl-d14	*97.9*			*23.0-120*		*07/29/2021 01:19*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.2		1	07/29/2021 16:44	WG1714177

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0189	0.0420	1	07/29/2021 16:51	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.40		0.105	1.05	5	07/30/2021 12:50	WG1713654
Barium	67.2		0.160	2.63	5	07/30/2021 12:50	WG1713654
Cadmium	0.165	J	0.0898	1.05	5	07/30/2021 12:50	WG1713654
Chromium	7.00		0.311	5.25	5	07/30/2021 12:50	WG1713654
Lead	3.95		0.104	2.10	5	07/30/2021 12:50	WG1713654
Selenium	0.256	J	0.189	2.63	5	07/30/2021 12:50	WG1713654
Silver	U		0.0909	0.525	5	07/30/2021 12:50	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	178		55.9	168	40	07/30/2021 04:27	WG1713306
Residual Range Organics (RRO)	1480		140	420	40	07/30/2021 04:27	WG1713306
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*07/30/2021 04:27*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0124	0.0357	1	07/29/2021 21:03	WG1713675
PCB 1221	U		0.0124	0.0357	1	07/29/2021 21:03	WG1713675
PCB 1232	U		0.0124	0.0357	1	07/29/2021 21:03	WG1713675
PCB 1242	U		0.0124	0.0357	1	07/29/2021 21:03	WG1713675
PCB 1248	U		0.00775	0.0179	1	07/29/2021 21:03	WG1713675
PCB 1254	U		0.00775	0.0179	1	07/29/2021 21:03	WG1713675
PCB 1260	U		0.00775	0.0179	1	07/29/2021 21:03	WG1713675
(S) Decachlorobiphenyl	*46.9*			*10.0-135*		*07/29/2021 21:03*	WG1713675
(S) Tetrachloro-m-xylene	*50.4*			*10.0-139*		*07/29/2021 21:03*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00242	0.00630	1	07/29/2021 05:18	WG1713331
Acenaphthene	0.00473	J	0.00220	0.00630	1	07/29/2021 05:18	WG1713331
Acenaphthylene	U		0.00227	0.00630	1	07/29/2021 05:18	WG1713331
Benzo(a)anthracene	0.0108		0.00182	0.00630	1	07/29/2021 05:18	WG1713331
Benzo(a)pyrene	0.0379		0.00188	0.00630	1	07/29/2021 05:18	WG1713331
Benzo(b)fluoranthene	0.0296		0.00161	0.00630	1	07/29/2021 05:18	WG1713331
Benzo(g,h,i)perylene	0.0395		0.00186	0.00630	1	07/29/2021 05:18	WG1713331
Benzo(k)fluoranthene	0.00263	J	0.00226	0.00630	1	07/29/2021 05:18	WG1713331
Chrysene	0.0269		0.00244	0.00630	1	07/29/2021 05:18	WG1713331
Dibenz(a,h)anthracene	0.0146		0.00181	0.00630	1	07/29/2021 05:18	WG1713331
Fluoranthene	0.00806		0.00239	0.00630	1	07/29/2021 05:18	WG1713331
Fluorene	0.00971		0.00215	0.00630	1	07/29/2021 05:18	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.0179		0.00190	0.00630	1	07/29/2021 05:18	WG1713331
Naphthalene	U		0.00429	0.0210	1	07/29/2021 05:18	WG1713331
Phenanthrene	0.0530		0.00243	0.00630	1	07/29/2021 05:18	WG1713331
Pyrene	0.0414		0.00210	0.00630	1	07/29/2021 05:18	WG1713331
1-Methylnaphthalene	0.0156	J	0.00472	0.0210	1	07/29/2021 05:18	WG1713331
2-Methylnaphthalene	0.0127	J	0.00449	0.0210	1	07/29/2021 05:18	WG1713331
2-Chloronaphthalene	U		0.00490	0.0210	1	07/29/2021 05:18	WG1713331
(S) Nitrobenzene-d5	*93.5*			*14.0-149*		*07/29/2021 05:18*	WG1713331
(S) 2-Fluorobiphenyl	*85.8*			*34.0-125*		*07/29/2021 05:18*	WG1713331
(S) p-Terphenyl-d14	*95.0*			*23.0-120*		*07/29/2021 05:18*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.4		1	07/29/2021 16:44	WG1714177

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0677		0.0263	0.0585	1	07/29/2021 16:53	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.73		0.146	1.46	5	07/30/2021 12:53	WG1713654
Barium	219		0.222	3.66	5	07/30/2021 12:53	WG1713654
Cadmium	0.306	J	0.125	1.46	5	07/30/2021 12:53	WG1713654
Chromium	20.6		0.433	7.31	5	07/30/2021 12:53	WG1713654
Lead	34.1		0.145	2.92	5	07/30/2021 12:53	WG1713654
Selenium	0.663	J	0.263	3.66	5	07/30/2021 12:53	WG1713654
Silver	U		0.126	0.731	5	07/30/2021 12:53	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	19.2		1.94	5.85	1	07/29/2021 23:51	WG1713306
Residual Range Organics (RRO)	96.4		4.87	14.6	1	07/29/2021 23:51	WG1713306
(S) o-Terphenyl	*51.5*			*18.0-148*		*07/29/2021 23:51*	WG1713306

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0173	0.0497	1	07/30/2021 10:51	WG1713675
PCB 1221	U		0.0173	0.0497	1	07/30/2021 10:51	WG1713675
PCB 1232	U		0.0173	0.0497	1	07/30/2021 10:51	WG1713675
PCB 1242	U		0.0173	0.0497	1	07/30/2021 10:51	WG1713675
PCB 1248	U		0.0108	0.0249	1	07/30/2021 10:51	WG1713675
PCB 1254	U		0.0108	0.0249	1	07/30/2021 10:51	WG1713675
PCB 1260	U		0.0108	0.0249	1	07/30/2021 10:51	WG1713675
(S) Decachlorobiphenyl	*51.7*			*10.0-135*		*07/30/2021 10:51*	WG1713675
(S) Tetrachloro-m-xylene	*62.7*			*10.0-139*		*07/30/2021 10:51*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00336	0.00877	1	07/29/2021 01:39	WG1713331
Acenaphthene	U		0.00306	0.00877	1	07/29/2021 01:39	WG1713331
Acenaphthylene	0.00317	J	0.00316	0.00877	1	07/29/2021 01:39	WG1713331
Benzo(a)anthracene	0.00678	J	0.00253	0.00877	1	07/29/2021 01:39	WG1713331
Benzo(a)pyrene	0.00645	J	0.00262	0.00877	1	07/29/2021 01:39	WG1713331
Benzo(b)fluoranthene	0.00768	J	0.00224	0.00877	1	07/29/2021 01:39	WG1713331
Benzo(g,h,i)perylene	0.00548	J	0.00259	0.00877	1	07/29/2021 01:39	WG1713331
Benzo(k)fluoranthene	U		0.00314	0.00877	1	07/29/2021 01:39	WG1713331
Chrysene	0.00694	J	0.00339	0.00877	1	07/29/2021 01:39	WG1713331
Dibenz(a,h)anthracene	U		0.00251	0.00877	1	07/29/2021 01:39	WG1713331
Fluoranthene	0.0148		0.00332	0.00877	1	07/29/2021 01:39	WG1713331
Fluorene	U		0.00300	0.00877	1	07/29/2021 01:39	WG1713331

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00449	J	0.00265	0.00877	1	07/29/2021 01:39	WG1713331
Naphthalene	0.0164	J	0.00597	0.0292	1	07/29/2021 01:39	WG1713331
Phenanthrene	0.0175		0.00338	0.00877	1	07/29/2021 01:39	WG1713331
Pyrene	0.0162		0.00292	0.00877	1	07/29/2021 01:39	WG1713331
1-Methylnaphthalene	U		0.00656	0.0292	1	07/29/2021 01:39	WG1713331
2-Methylnaphthalene	U		0.00624	0.0292	1	07/29/2021 01:39	WG1713331
2-Chloronaphthalene	U		0.00681	0.0292	1	07/29/2021 01:39	WG1713331
(S) Nitrobenzene-d5	*74.8*			*14.0-149*		*07/29/2021 01:39*	WG1713331
(S) 2-Fluorobiphenyl	*56.1*			*34.0-125*		*07/29/2021 01:39*	WG1713331
(S) p-Terphenyl-d14	*76.8*			*23.0-120*		*07/29/2021 01:39*	WG1713331

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.2		1	07/29/2021 16:02	WG1714178

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0423	J	0.0264	0.0587	1	07/29/2021 16:56	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	7.38		0.147	1.47	5	07/30/2021 12:57	WG1713654
Barium	215		0.223	3.67	5	07/30/2021 12:57	WG1713654
Cadmium	0.153	J	0.125	1.47	5	07/30/2021 12:57	WG1713654
Chromium	32.2		0.434	7.34	5	07/30/2021 12:57	WG1713654
Lead	14.4		0.145	2.93	5	07/30/2021 12:57	WG1713654
Selenium	0.828	J	0.264	3.67	5	07/30/2021 12:57	WG1713654
Silver	U		0.127	0.734	5	07/30/2021 12:57	WG1713654

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	111	J	39.0	117	20	07/30/2021 03:18	WG1713306
Residual Range Organics (RRO)	918		97.7	293	20	07/30/2021 03:18	WG1713306
(S) o-Terphenyl	*0.000*	J7		*18.0-148*		*07/30/2021 03:18*	WG1713306

Sample Narrative:

L1382341-40 WG1713306: Cannot run at lower dilution due to viscosity of extract

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0173	0.0499	1	07/29/2021 21:23	WG1713675
PCB 1221	U		0.0173	0.0499	1	07/29/2021 21:23	WG1713675
PCB 1232	U		0.0173	0.0499	1	07/29/2021 21:23	WG1713675
PCB 1242	U		0.0173	0.0499	1	07/29/2021 21:23	WG1713675
PCB 1248	U		0.0108	0.0249	1	07/29/2021 21:23	WG1713675
PCB 1254	U		0.0108	0.0249	1	07/29/2021 21:23	WG1713675
PCB 1260	U		0.0108	0.0249	1	07/29/2021 21:23	WG1713675
(S) Decachlorobiphenyl	*55.6*			*10.0-135*		*07/29/2021 21:23*	WG1713675
(S) Tetrachloro-m-xylene	*61.0*			*10.0-139*		*07/29/2021 21:23*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00337	0.00880	1	07/28/2021 23:26	WG1713333
Acenaphthene	U		0.00307	0.00880	1	07/28/2021 23:26	WG1713333
Acenaphthylene	U		0.00317	0.00880	1	07/28/2021 23:26	WG1713333
Benzo(a)anthracene	0.00269	J	0.00254	0.00880	1	07/28/2021 23:26	WG1713333
Benzo(a)pyrene	U		0.00263	0.00880	1	07/28/2021 23:26	WG1713333
Benzo(b)fluoranthene	0.00371	J	0.00224	0.00880	1	07/28/2021 23:26	WG1713333
Benzo(g,h,i)perylene	0.00264	J	0.00260	0.00880	1	07/28/2021 23:26	WG1713333
Benzo(k)fluoranthene	U		0.00315	0.00880	1	07/28/2021 23:26	WG1713333
Chrysene	U		0.00340	0.00880	1	07/28/2021 23:26	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00252	0.00880	1	07/28/2021 23:26	WG1713333
Fluoranthene	0.0142		0.00333	0.00880	1	07/28/2021 23:26	WG1713333
Fluorene	U		0.00301	0.00880	1	07/28/2021 23:26	WG1713333
Indeno(1,2,3-cd)pyrene	U		0.00266	0.00880	1	07/28/2021 23:26	WG1713333
Naphthalene	0.0188	J	0.00599	0.0293	1	07/28/2021 23:26	WG1713333
Phenanthrene	0.0143		0.00339	0.00880	1	07/28/2021 23:26	WG1713333
Pyrene	0.0108		0.00293	0.00880	1	07/28/2021 23:26	WG1713333
1-Methylnaphthalene	U		0.00659	0.0293	1	07/28/2021 23:26	WG1713333
2-Methylnaphthalene	U		0.00627	0.0293	1	07/28/2021 23:26	WG1713333
2-Chloronaphthalene	U		0.00684	0.0293	1	07/28/2021 23:26	WG1713333
(S) Nitrobenzene-d5	*69.2*			*14.0-149*		*07/28/2021 23:26*	WG1713333
(S) 2-Fluorobiphenyl	*58.3*			*34.0-125*		*07/28/2021 23:26*	WG1713333
(S) p-Terphenyl-d14	*72.1*			*23.0-120*		*07/28/2021 23:26*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.9		1	07/29/2021 16:02	WG1714178

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0202	0.0450	1	07/29/2021 16:58	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.36		0.112	1.12	5	07/29/2021 20:33	WG1713655
Barium	68.3		0.171	2.81	5	07/29/2021 20:33	WG1713655
Cadmium	0.186	J	0.0961	1.12	5	07/29/2021 20:33	WG1713655
Chromium	7.66		0.333	5.62	5	07/29/2021 20:33	WG1713655
Lead	3.70		0.111	2.25	5	07/29/2021 20:33	WG1713655
Selenium	U		0.202	2.81	5	07/29/2021 20:33	WG1713655
Silver	U		0.0972	0.562	5	07/29/2021 20:33	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.93	J	1.50	4.50	1	07/29/2021 19:31	WG1713309
Residual Range Organics (RRO)	9.75	J	3.74	11.2	1	07/29/2021 19:31	WG1713309
(S) o-Terphenyl	*43.5*			*18.0-148*		*07/29/2021 19:31*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0133	0.0382	1	07/29/2021 21:33	WG1713675
PCB 1221	U		0.0133	0.0382	1	07/29/2021 21:33	WG1713675
PCB 1232	U		0.0133	0.0382	1	07/29/2021 21:33	WG1713675
PCB 1242	U		0.0133	0.0382	1	07/29/2021 21:33	WG1713675
PCB 1248	U		0.00830	0.0191	1	07/29/2021 21:33	WG1713675
PCB 1254	U		0.00830	0.0191	1	07/29/2021 21:33	WG1713675
PCB 1260	U		0.00830	0.0191	1	07/29/2021 21:33	WG1713675
(S) Decachlorobiphenyl	*64.1*			*10.0-135*		*07/29/2021 21:33*	WG1713675
(S) Tetrachloro-m-xylene	*67.4*			*10.0-139*		*07/29/2021 21:33*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00259	0.00675	1	07/28/2021 23:46	WG1713333
Acenaphthene	U		0.00235	0.00675	1	07/28/2021 23:46	WG1713333
Acenaphthylene	U		0.00243	0.00675	1	07/28/2021 23:46	WG1713333
Benzo(a)anthracene	U		0.00194	0.00675	1	07/28/2021 23:46	WG1713333
Benzo(a)pyrene	U		0.00201	0.00675	1	07/28/2021 23:46	WG1713333
Benzo(b)fluoranthene	U		0.00172	0.00675	1	07/28/2021 23:46	WG1713333
Benzo(g,h,i)perylene	U		0.00199	0.00675	1	07/28/2021 23:46	WG1713333
Benzo(k)fluoranthene	U		0.00242	0.00675	1	07/28/2021 23:46	WG1713333
Chrysene	U		0.00261	0.00675	1	07/28/2021 23:46	WG1713333
Dibenz(a,h)anthracene	U		0.00193	0.00675	1	07/28/2021 23:46	WG1713333
Fluoranthene	U		0.00255	0.00675	1	07/28/2021 23:46	WG1713333
Fluorene	U		0.00230	0.00675	1	07/28/2021 23:46	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00203	0.00675	1	07/28/2021 23:46	WG1713333
Naphthalene	U		0.00459	0.0225	1	07/28/2021 23:46	WG1713333
Phenanthrene	U		0.00260	0.00675	1	07/28/2021 23:46	WG1713333
Pyrene	U		0.00225	0.00675	1	07/28/2021 23:46	WG1713333
1-Methylnaphthalene	U		0.00505	0.0225	1	07/28/2021 23:46	WG1713333
2-Methylnaphthalene	U		0.00480	0.0225	1	07/28/2021 23:46	WG1713333
2-Chloronaphthalene	U		0.00524	0.0225	1	07/28/2021 23:46	WG1713333
(S) Nitrobenzene-d5	*87.3*			*14.0-149*		*07/28/2021 23:46*	WG1713333
(S) 2-Fluorobiphenyl	*79.2*			*34.0-125*		*07/28/2021 23:46*	WG1713333
(S) p-Terphenyl-d14	*102*			*23.0-120*		*07/28/2021 23:46*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.6		1	07/29/2021 16:02	WG1714178

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0190	0.0423	1	07/29/2021 17:01	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.65	O1	0.106	1.06	5	07/29/2021 20:16	WG1713655
Barium	54.9	O1	0.161	2.64	5	07/29/2021 20:16	WG1713655
Cadmium	0.209	J	0.0904	1.06	5	07/29/2021 20:16	WG1713655
Chromium	7.02	O1	0.313	5.29	5	07/29/2021 20:16	WG1713655
Lead	3.92	O1	0.105	2.12	5	07/29/2021 20:16	WG1713655
Selenium	U		0.190	2.64	5	07/29/2021 20:16	WG1713655
Silver	U		0.0915	0.529	5	07/29/2021 20:16	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.41	4.23	1	07/29/2021 17:40	WG1713309
Residual Range Organics (RRO)	U		3.52	10.6	1	07/29/2021 17:40	WG1713309
(S) o-Terphenyl	*38.4*			*18.0-148*		*07/29/2021 17:40*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0125	0.0360	1	07/29/2021 21:43	WG1713675
PCB 1221	U		0.0125	0.0360	1	07/29/2021 21:43	WG1713675
PCB 1232	U		0.0125	0.0360	1	07/29/2021 21:43	WG1713675
PCB 1242	U		0.0125	0.0360	1	07/29/2021 21:43	WG1713675
PCB 1248	U		0.00781	0.0180	1	07/29/2021 21:43	WG1713675
PCB 1254	U		0.00781	0.0180	1	07/29/2021 21:43	WG1713675
PCB 1260	U		0.00781	0.0180	1	07/29/2021 21:43	WG1713675
(S) Decachlorobiphenyl	*77.1*			*10.0-135*		*07/29/2021 21:43*	WG1713675
(S) Tetrachloro-m-xylene	*78.7*			*10.0-139*		*07/29/2021 21:43*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00243	0.00635	1	07/29/2021 00:06	WG1713333
Acenaphthene	U		0.00221	0.00635	1	07/29/2021 00:06	WG1713333
Acenaphthylene	U		0.00228	0.00635	1	07/29/2021 00:06	WG1713333
Benzo(a)anthracene	U		0.00183	0.00635	1	07/29/2021 00:06	WG1713333
Benzo(a)pyrene	U		0.00189	0.00635	1	07/29/2021 00:06	WG1713333
Benzo(b)fluoranthene	U		0.00162	0.00635	1	07/29/2021 00:06	WG1713333
Benzo(g,h,i)perylene	U		0.00187	0.00635	1	07/29/2021 00:06	WG1713333
Benzo(k)fluoranthene	U		0.00227	0.00635	1	07/29/2021 00:06	WG1713333
Chrysene	U		0.00245	0.00635	1	07/29/2021 00:06	WG1713333
Dibenz(a,h)anthracene	U		0.00182	0.00635	1	07/29/2021 00:06	WG1713333
Fluoranthene	U		0.00240	0.00635	1	07/29/2021 00:06	WG1713333
Fluorene	U		0.00217	0.00635	1	07/29/2021 00:06	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00191	0.00635	1	07/29/2021 00:06	WG1713333
Naphthalene	U		0.00432	0.0212	1	07/29/2021 00:06	WG1713333
Phenanthrene	U		0.00244	0.00635	1	07/29/2021 00:06	WG1713333
Pyrene	U		0.00212	0.00635	1	07/29/2021 00:06	WG1713333
1-Methylnaphthalene	U		0.00475	0.0212	1	07/29/2021 00:06	WG1713333
2-Methylnaphthalene	U		0.00452	0.0212	1	07/29/2021 00:06	WG1713333
2-Chloronaphthalene	U		0.00493	0.0212	1	07/29/2021 00:06	WG1713333
(S) Nitrobenzene-d5	*92.9*			*14.0-149*		*07/29/2021 00:06*	WG1713333
(S) 2-Fluorobiphenyl	*86.6*			*34.0-125*		*07/29/2021 00:06*	WG1713333
(S) p-Terphenyl-d14	*113*			*23.0-120*		*07/29/2021 00:06*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.6		1	07/29/2021 16:02	WG1714178

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0452	J	0.0258	0.0574	1	07/29/2021 17:03	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	5.08		0.144	1.44	5	07/29/2021 20:36	WG1713655
Barium	196		0.218	3.59	5	07/29/2021 20:36	WG1713655
Cadmium	U		0.123	1.44	5	07/29/2021 20:36	WG1713655
Chromium	29.6		0.425	7.18	5	07/29/2021 20:36	WG1713655
Lead	12.7		0.142	2.87	5	07/29/2021 20:36	WG1713655
Selenium	0.662	J	0.258	3.59	5	07/29/2021 20:36	WG1713655
Silver	U		0.124	0.718	5	07/29/2021 20:36	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	16.5	J3 J6	1.91	5.74	1	07/29/2021 17:54	WG1713309
Residual Range Organics (RRO)	155		4.78	14.4	1	07/29/2021 17:54	WG1713309
(S) o-Terphenyl	*32.6*			*18.0-148*		*07/29/2021 17:54*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0169	0.0488	1	07/29/2021 21:53	WG1713675
PCB 1221	U		0.0169	0.0488	1	07/29/2021 21:53	WG1713675
PCB 1232	U		0.0169	0.0488	1	07/29/2021 21:53	WG1713675
PCB 1242	U		0.0169	0.0488	1	07/29/2021 21:53	WG1713675
PCB 1248	U		0.0106	0.0244	1	07/29/2021 21:53	WG1713675
PCB 1254	U		0.0106	0.0244	1	07/29/2021 21:53	WG1713675
PCB 1260	U		0.0106	0.0244	1	07/29/2021 21:53	WG1713675
(S) Decachlorobiphenyl	*59.0*			*10.0-135*		*07/29/2021 21:53*	WG1713675
(S) Tetrachloro-m-xylene	*66.6*			*10.0-139*		*07/29/2021 21:53*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00330	0.00862	1	07/29/2021 00:26	WG1713333
Acenaphthene	U		0.00300	0.00862	1	07/29/2021 00:26	WG1713333
Acenaphthylene	U		0.00310	0.00862	1	07/29/2021 00:26	WG1713333
Benzo(a)anthracene	U		0.00248	0.00862	1	07/29/2021 00:26	WG1713333
Benzo(a)pyrene	U		0.00257	0.00862	1	07/29/2021 00:26	WG1713333
Benzo(b)fluoranthene	U		0.00220	0.00862	1	07/29/2021 00:26	WG1713333
Benzo(g,h,i)perylene	U		0.00254	0.00862	1	07/29/2021 00:26	WG1713333
Benzo(k)fluoranthene	U		0.00309	0.00862	1	07/29/2021 00:26	WG1713333
Chrysene	U		0.00333	0.00862	1	07/29/2021 00:26	WG1713333
Dibenz(a,h)anthracene	U		0.00247	0.00862	1	07/29/2021 00:26	WG1713333
Fluoranthene	0.00767	J	0.00326	0.00862	1	07/29/2021 00:26	WG1713333
Fluorene	U		0.00294	0.00862	1	07/29/2021 00:26	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00260	0.00862	1	07/29/2021 00:26	WG1713333
Naphthalene	U		0.00586	0.0287	1	07/29/2021 00:26	WG1713333
Phenanthrene	0.00419	J	0.00332	0.00862	1	07/29/2021 00:26	WG1713333
Pyrene	0.00686	J	0.00287	0.00862	1	07/29/2021 00:26	WG1713333
1-Methylnaphthalene	U		0.00645	0.0287	1	07/29/2021 00:26	WG1713333
2-Methylnaphthalene	U		0.00613	0.0287	1	07/29/2021 00:26	WG1713333
2-Chloronaphthalene	U		0.00669	0.0287	1	07/29/2021 00:26	WG1713333
(S) Nitrobenzene-d5	*83.3*			*14.0-149*		*07/29/2021 00:26*	WG1713333
(S) 2-Fluorobiphenyl	*55.6*			*34.0-125*		*07/29/2021 00:26*	WG1713333
(S) p-Terphenyl-d14	*69.8*			*23.0-120*		*07/29/2021 00:26*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.4		1	07/29/2021 16:02	WG1714178

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0191	0.0424	1	07/29/2021 17:06	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.66		0.106	1.06	5	07/29/2021 20:40	WG1713655
Barium	79.4		0.161	2.65	5	07/29/2021 20:40	WG1713655
Cadmium	0.217	J	0.0906	1.06	5	07/29/2021 20:40	WG1713655
Chromium	7.64		0.314	5.30	5	07/29/2021 20:40	WG1713655
Lead	3.35		0.105	2.12	5	07/29/2021 20:40	WG1713655
Selenium	U		0.191	2.65	5	07/29/2021 20:40	WG1713655
Silver	U		0.0916	0.530	5	07/29/2021 20:40	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	1.51	J	1.41	4.24	1	07/29/2021 18:50	WG1713309
Residual Range Organics (RRO)	5.20	J	3.53	10.6	1	07/29/2021 18:50	WG1713309
(S) o-Terphenyl	*46.3*			*18.0-148*		*07/29/2021 18:50*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0125	0.0360	1	07/29/2021 22:03	WG1713675
PCB 1221	U		0.0125	0.0360	1	07/29/2021 22:03	WG1713675
PCB 1232	U		0.0125	0.0360	1	07/29/2021 22:03	WG1713675
PCB 1242	U		0.0125	0.0360	1	07/29/2021 22:03	WG1713675
PCB 1248	U		0.00782	0.0180	1	07/29/2021 22:03	WG1713675
PCB 1254	U		0.00782	0.0180	1	07/29/2021 22:03	WG1713675
PCB 1260	U		0.00782	0.0180	1	07/29/2021 22:03	WG1713675
(S) Decachlorobiphenyl	*77.5*			*10.0-135*		*07/29/2021 22:03*	WG1713675
(S) Tetrachloro-m-xylene	*76.3*			*10.0-139*		*07/29/2021 22:03*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00244	0.00636	1	07/29/2021 00:46	WG1713333
Acenaphthene	U		0.00221	0.00636	1	07/29/2021 00:46	WG1713333
Acenaphthylene	U		0.00229	0.00636	1	07/29/2021 00:46	WG1713333
Benzo(a)anthracene	U		0.00183	0.00636	1	07/29/2021 00:46	WG1713333
Benzo(a)pyrene	U		0.00190	0.00636	1	07/29/2021 00:46	WG1713333
Benzo(b)fluoranthene	U		0.00162	0.00636	1	07/29/2021 00:46	WG1713333
Benzo(g,h,i)perylene	U		0.00187	0.00636	1	07/29/2021 00:46	WG1713333
Benzo(k)fluoranthene	U		0.00228	0.00636	1	07/29/2021 00:46	WG1713333
Chrysene	U		0.00246	0.00636	1	07/29/2021 00:46	WG1713333
Dibenz(a,h)anthracene	U		0.00182	0.00636	1	07/29/2021 00:46	WG1713333
Fluoranthene	U		0.00240	0.00636	1	07/29/2021 00:46	WG1713333
Fluorene	U		0.00217	0.00636	1	07/29/2021 00:46	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00192	0.00636	1	07/29/2021 00:46	WG1713333
Naphthalene	U		0.00432	0.0212	1	07/29/2021 00:46	WG1713333
Phenanthrene	U		0.00245	0.00636	1	07/29/2021 00:46	WG1713333
Pyrene	U		0.00212	0.00636	1	07/29/2021 00:46	WG1713333
1-Methylnaphthalene	U		0.00476	0.0212	1	07/29/2021 00:46	WG1713333
2-Methylnaphthalene	U		0.00452	0.0212	1	07/29/2021 00:46	WG1713333
2-Chloronaphthalene	U		0.00494	0.0212	1	07/29/2021 00:46	WG1713333
(S) Nitrobenzene-d5	*92.2*			*14.0-149*		*07/29/2021 00:46*	WG1713333
(S) 2-Fluorobiphenyl	*80.2*			*34.0-125*		*07/29/2021 00:46*	WG1713333
(S) p-Terphenyl-d14	*106*			*23.0-120*		*07/29/2021 00:46*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.4		1	07/29/2021 16:02	WG1714178

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0195	0.0433	1	07/29/2021 17:08	WG1713533

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.46		0.108	1.08	5	07/29/2021 20:49	WG1713655
Barium	57.6		0.165	2.71	5	07/29/2021 20:49	WG1713655
Cadmium	0.179	J	0.0925	1.08	5	07/29/2021 20:49	WG1713655
Chromium	7.36		0.320	5.41	5	07/29/2021 20:49	WG1713655
Lead	3.40		0.107	2.16	5	07/29/2021 20:49	WG1713655
Selenium	U		0.195	2.71	5	07/29/2021 20:49	WG1713655
Silver	U		0.0936	0.541	5	07/29/2021 20:49	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.44	4.33	1	07/29/2021 16:03	WG1713309
Residual Range Organics (RRO)	U		3.60	10.8	1	07/29/2021 16:03	WG1713309
(S) o-Terphenyl	*41.7*			*18.0-148*		*07/29/2021 16:03*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0128	0.0368	1	07/29/2021 22:13	WG1713675
PCB 1221	U		0.0128	0.0368	1	07/29/2021 22:13	WG1713675
PCB 1232	U		0.0128	0.0368	1	07/29/2021 22:13	WG1713675
PCB 1242	U		0.0128	0.0368	1	07/29/2021 22:13	WG1713675
PCB 1248	U		0.00799	0.0184	1	07/29/2021 22:13	WG1713675
PCB 1254	U		0.00799	0.0184	1	07/29/2021 22:13	WG1713675
PCB 1260	U		0.00799	0.0184	1	07/29/2021 22:13	WG1713675
(S) Decachlorobiphenyl	*73.1*			*10.0-135*		*07/29/2021 22:13*	WG1713675
(S) Tetrachloro-m-xylene	*71.2*			*10.0-139*		*07/29/2021 22:13*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00249	0.00649	1	07/29/2021 01:06	WG1713333
Acenaphthene	U		0.00226	0.00649	1	07/29/2021 01:06	WG1713333
Acenaphthylene	U		0.00234	0.00649	1	07/29/2021 01:06	WG1713333
Benzo(a)anthracene	U		0.00187	0.00649	1	07/29/2021 01:06	WG1713333
Benzo(a)pyrene	U		0.00194	0.00649	1	07/29/2021 01:06	WG1713333
Benzo(b)fluoranthene	U		0.00166	0.00649	1	07/29/2021 01:06	WG1713333
Benzo(g,h,i)perylene	U		0.00192	0.00649	1	07/29/2021 01:06	WG1713333
Benzo(k)fluoranthene	U		0.00233	0.00649	1	07/29/2021 01:06	WG1713333
Chrysene	U		0.00251	0.00649	1	07/29/2021 01:06	WG1713333
Dibenz(a,h)anthracene	U		0.00186	0.00649	1	07/29/2021 01:06	WG1713333
Fluoranthene	U		0.00246	0.00649	1	07/29/2021 01:06	WG1713333
Fluorene	U		0.00222	0.00649	1	07/29/2021 01:06	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00196	0.00649	1	07/29/2021 01:06	WG1713333
Naphthalene	U		0.00442	0.0216	1	07/29/2021 01:06	WG1713333
Phenanthrene	U		0.00250	0.00649	1	07/29/2021 01:06	WG1713333
Pyrene	U		0.00216	0.00649	1	07/29/2021 01:06	WG1713333
1-Methylnaphthalene	U		0.00486	0.0216	1	07/29/2021 01:06	WG1713333
2-Methylnaphthalene	U		0.00462	0.0216	1	07/29/2021 01:06	WG1713333
2-Chloronaphthalene	U		0.00504	0.0216	1	07/29/2021 01:06	WG1713333
(S) Nitrobenzene-d5	*86.3*			*14.0-149*		*07/29/2021 01:06*	WG1713333
(S) 2-Fluorobiphenyl	*77.8*			*34.0-125*		*07/29/2021 01:06*	WG1713333
(S) p-Terphenyl-d14	*100*			*23.0-120*		*07/29/2021 01:06*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	60.1		1	07/29/2021 16:02	WG1714178

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0743		0.0299	0.0665	1	07/29/2021 19:27	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.36		0.166	1.66	5	07/29/2021 20:53	WG1713655
Barium	104		0.253	4.16	5	07/29/2021 20:53	WG1713655
Cadmium	0.149	J	0.142	1.66	5	07/29/2021 20:53	WG1713655
Chromium	11.2		0.492	8.32	5	07/29/2021 20:53	WG1713655
Lead	18.0		0.165	3.33	5	07/29/2021 20:53	WG1713655
Selenium	0.688	J	0.299	4.16	5	07/29/2021 20:53	WG1713655
Silver	U		0.144	0.832	5	07/29/2021 20:53	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.58	J	2.21	6.65	1	07/29/2021 16:30	WG1713309
Residual Range Organics (RRO)	13.8	J	5.54	16.6	1	07/29/2021 16:30	WG1713309
(S) o-Terphenyl	*31.8*			*18.0-148*		*07/29/2021 16:30*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0196	0.0565	1	07/29/2021 22:23	WG1713675
PCB 1221	U		0.0196	0.0565	1	07/29/2021 22:23	WG1713675
PCB 1232	U		0.0196	0.0565	1	07/29/2021 22:23	WG1713675
PCB 1242	U		0.0196	0.0565	1	07/29/2021 22:23	WG1713675
PCB 1248	U		0.0123	0.0283	1	07/29/2021 22:23	WG1713675
PCB 1254	U		0.0123	0.0283	1	07/29/2021 22:23	WG1713675
PCB 1260	U		0.0123	0.0283	1	07/29/2021 22:23	WG1713675
(S) Decachlorobiphenyl	*59.6*			*10.0-135*		*07/29/2021 22:23*	WG1713675
(S) Tetrachloro-m-xylene	*62.8*			*10.0-139*		*07/29/2021 22:23*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.0131		0.00383	0.00998	1	07/29/2021 02:06	WG1713333
Acenaphthene	U		0.00348	0.00998	1	07/29/2021 02:06	WG1713333
Acenaphthylene	0.00620	J	0.00359	0.00998	1	07/29/2021 02:06	WG1713333
Benzo(a)anthracene	0.0286		0.00288	0.00998	1	07/29/2021 02:06	WG1713333
Benzo(a)pyrene	0.0259		0.00298	0.00998	1	07/29/2021 02:06	WG1713333
Benzo(b)fluoranthene	0.0274		0.00254	0.00998	1	07/29/2021 02:06	WG1713333
Benzo(g,h,i)perylene	0.0145		0.00294	0.00998	1	07/29/2021 02:06	WG1713333
Benzo(k)fluoranthene	0.0118		0.00358	0.00998	1	07/29/2021 02:06	WG1713333
Chrysene	0.0281		0.00386	0.00998	1	07/29/2021 02:06	WG1713333
Dibenz(a,h)anthracene	0.00316	J	0.00286	0.00998	1	07/29/2021 02:06	WG1713333
Fluoranthene	0.0577		0.00378	0.00998	1	07/29/2021 02:06	WG1713333
Fluorene	0.00521	J	0.00341	0.00998	1	07/29/2021 02:06	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.0154		0.00301	0.00998	1	07/29/2021 02:06	WG1713333
Naphthalene	0.0276	J	0.00679	0.0333	1	07/29/2021 02:06	WG1713333
Phenanthrene	0.0314		0.00384	0.00998	1	07/29/2021 02:06	WG1713333
Pyrene	0.0640		0.00333	0.00998	1	07/29/2021 02:06	WG1713333
1-Methylnaphthalene	U		0.00747	0.0333	1	07/29/2021 02:06	WG1713333
2-Methylnaphthalene	U		0.00710	0.0333	1	07/29/2021 02:06	WG1713333
2-Chloronaphthalene	U		0.00775	0.0333	1	07/29/2021 02:06	WG1713333
(S) Nitrobenzene-d5	*78.5*			*14.0-149*		*07/29/2021 02:06*	WG1713333
(S) 2-Fluorobiphenyl	*58.0*			*34.0-125*		*07/29/2021 02:06*	WG1713333
(S) p-Terphenyl-d14	*71.4*			*23.0-120*		*07/29/2021 02:06*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	07/29/2021 16:02	WG1714178

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0185	0.0411	1	07/29/2021 19:30	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.90		0.103	1.03	5	07/29/2021 20:56	WG1713655
Barium	59.2		0.156	2.57	5	07/29/2021 20:56	WG1713655
Cadmium	0.159	J	0.0878	1.03	5	07/29/2021 20:56	WG1713655
Chromium	7.45		0.304	5.13	5	07/29/2021 20:56	WG1713655
Lead	2.92		0.102	2.05	5	07/29/2021 20:56	WG1713655
Selenium	0.241	J	0.185	2.57	5	07/29/2021 20:56	WG1713655
Silver	U		0.0888	0.513	5	07/29/2021 20:56	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.18	J	1.37	4.11	1	07/29/2021 19:17	WG1713309
Residual Range Organics (RRO)	11.4		3.42	10.3	1	07/29/2021 19:17	WG1713309
(S) o-Terphenyl	*41.9*			*18.0-148*		*07/29/2021 19:17*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0121	0.0349	1	07/29/2021 22:33	WG1713675
PCB 1221	U		0.0121	0.0349	1	07/29/2021 22:33	WG1713675
PCB 1232	U		0.0121	0.0349	1	07/29/2021 22:33	WG1713675
PCB 1242	U		0.0121	0.0349	1	07/29/2021 22:33	WG1713675
PCB 1248	U		0.00758	0.0175	1	07/29/2021 22:33	WG1713675
PCB 1254	U		0.00758	0.0175	1	07/29/2021 22:33	WG1713675
PCB 1260	U		0.00758	0.0175	1	07/29/2021 22:33	WG1713675
(S) Decachlorobiphenyl	*59.6*			*10.0-135*		*07/29/2021 22:33*	WG1713675
(S) Tetrachloro-m-xylene	*57.0*			*10.0-139*		*07/29/2021 22:33*	WG1713675

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00236	0.00616	1	07/29/2021 02:26	WG1713333
Acenaphthene	U		0.00215	0.00616	1	07/29/2021 02:26	WG1713333
Acenaphthylene	U		0.00222	0.00616	1	07/29/2021 02:26	WG1713333
Benzo(a)anthracene	U		0.00178	0.00616	1	07/29/2021 02:26	WG1713333
Benzo(a)pyrene	U		0.00184	0.00616	1	07/29/2021 02:26	WG1713333
Benzo(b)fluoranthene	U		0.00157	0.00616	1	07/29/2021 02:26	WG1713333
Benzo(g,h,i)perylene	U		0.00182	0.00616	1	07/29/2021 02:26	WG1713333
Benzo(k)fluoranthene	U		0.00221	0.00616	1	07/29/2021 02:26	WG1713333
Chrysene	U		0.00238	0.00616	1	07/29/2021 02:26	WG1713333
Dibenz(a,h)anthracene	U		0.00177	0.00616	1	07/29/2021 02:26	WG1713333
Fluoranthene	U		0.00233	0.00616	1	07/29/2021 02:26	WG1713333
Fluorene	U		0.00210	0.00616	1	07/29/2021 02:26	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00186	0.00616	1	07/29/2021 02:26	WG1713333
Naphthalene	U		0.00419	0.0205	1	07/29/2021 02:26	WG1713333
Phenanthrene	U		0.00237	0.00616	1	07/29/2021 02:26	WG1713333
Pyrene	U		0.00205	0.00616	1	07/29/2021 02:26	WG1713333
1-Methylnaphthalene	U		0.00461	0.0205	1	07/29/2021 02:26	WG1713333
2-Methylnaphthalene	U		0.00438	0.0205	1	07/29/2021 02:26	WG1713333
2-Chloronaphthalene	U		0.00478	0.0205	1	07/29/2021 02:26	WG1713333
(S) Nitrobenzene-d5	*88.7*			*14.0-149*		*07/29/2021 02:26*	WG1713333
(S) 2-Fluorobiphenyl	*81.3*			*34.0-125*		*07/29/2021 02:26*	WG1713333
(S) p-Terphenyl-d14	*106*			*23.0-120*		*07/29/2021 02:26*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	07/29/2021 16:02	WG1714178

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0196	0.0436	1	07/29/2021 19:32	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.81		0.109	1.09	5	07/29/2021 20:59	WG1713655
Barium	64.8		0.166	2.73	5	07/29/2021 20:59	WG1713655
Cadmium	0.245	J	0.0932	1.09	5	07/29/2021 20:59	WG1713655
Chromium	9.37		0.323	5.45	5	07/29/2021 20:59	WG1713655
Lead	3.39		0.108	2.18	5	07/29/2021 20:59	WG1713655
Selenium	0.201	J	0.196	2.73	5	07/29/2021 20:59	WG1713655
Silver	U		0.0943	0.545	5	07/29/2021 20:59	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.45	4.36	1	07/29/2021 17:12	WG1713309
Residual Range Organics (RRO)	U		3.63	10.9	1	07/29/2021 17:12	WG1713309
(S) o-Terphenyl	*40.9*			*18.0-148*		*07/29/2021 17:12*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U	J3 J5	0.0129	0.0371	1	07/30/2021 11:55	WG1713676
PCB 1221	U		0.0129	0.0371	1	07/30/2021 11:55	WG1713676
PCB 1232	U		0.0129	0.0371	1	07/30/2021 11:55	WG1713676
PCB 1242	U		0.0129	0.0371	1	07/30/2021 11:55	WG1713676
PCB 1248	U		0.00805	0.0185	1	07/30/2021 11:55	WG1713676
PCB 1254	U		0.00805	0.0185	1	07/30/2021 11:55	WG1713676
PCB 1260	U		0.00805	0.0185	1	07/30/2021 11:55	WG1713676
(S) Decachlorobiphenyl	*75.0*			*10.0-135*		*07/30/2021 11:55*	WG1713676
(S) Tetrachloro-m-xylene	*84.1*			*10.0-139*		*07/30/2021 11:55*	WG1713676

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00251	0.00654	1	07/29/2021 02:47	WG1713333
Acenaphthene	U		0.00228	0.00654	1	07/29/2021 02:47	WG1713333
Acenaphthylene	U		0.00236	0.00654	1	07/29/2021 02:47	WG1713333
Benzo(a)anthracene	U		0.00189	0.00654	1	07/29/2021 02:47	WG1713333
Benzo(a)pyrene	U		0.00195	0.00654	1	07/29/2021 02:47	WG1713333
Benzo(b)fluoranthene	U		0.00167	0.00654	1	07/29/2021 02:47	WG1713333
Benzo(g,h,i)perylene	U		0.00193	0.00654	1	07/29/2021 02:47	WG1713333
Benzo(k)fluoranthene	U		0.00234	0.00654	1	07/29/2021 02:47	WG1713333
Chrysene	U		0.00253	0.00654	1	07/29/2021 02:47	WG1713333
Dibenz(a,h)anthracene	U		0.00188	0.00654	1	07/29/2021 02:47	WG1713333
Fluoranthene	U		0.00247	0.00654	1	07/29/2021 02:47	WG1713333
Fluorene	U		0.00224	0.00654	1	07/29/2021 02:47	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00197	0.00654	1	07/29/2021 02:47	WG1713333
Naphthalene	U		0.00445	0.0218	1	07/29/2021 02:47	WG1713333
Phenanthrene	U		0.00252	0.00654	1	07/29/2021 02:47	WG1713333
Pyrene	U		0.00218	0.00654	1	07/29/2021 02:47	WG1713333
1-Methylnaphthalene	U		0.00490	0.0218	1	07/29/2021 02:47	WG1713333
2-Methylnaphthalene	U		0.00466	0.0218	1	07/29/2021 02:47	WG1713333
2-Chloronaphthalene	U		0.00508	0.0218	1	07/29/2021 02:47	WG1713333
(S) Nitrobenzene-d5	*83.9*			*14.0-149*		*07/29/2021 02:47*	WG1713333
(S) 2-Fluorobiphenyl	*78.1*			*34.0-125*		*07/29/2021 02:47*	WG1713333
(S) p-Terphenyl-d14	*104*			*23.0-120*		*07/29/2021 02:47*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.2		1	07/29/2021 16:02	WG1714178

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0187	0.0416	1	07/29/2021 19:35	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.94		0.104	1.04	5	07/29/2021 21:02	WG1713655
Barium	49.2		0.158	2.60	5	07/29/2021 21:02	WG1713655
Cadmium	0.168	J	0.0889	1.04	5	07/29/2021 21:02	WG1713655
Chromium	7.07		0.308	5.20	5	07/29/2021 21:02	WG1713655
Lead	3.06		0.103	2.08	5	07/29/2021 21:02	WG1713655
Selenium	U		0.187	2.60	5	07/29/2021 21:02	WG1713655
Silver	U		0.0900	0.520	5	07/29/2021 21:02	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.38	4.16	1	07/29/2021 16:44	WG1713309
Residual Range Organics (RRO)	U		3.46	10.4	1	07/29/2021 16:44	WG1713309
(S) o-Terphenyl	*37.0*			*18.0-148*		*07/29/2021 16:44*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0123	0.0354	1	07/29/2021 23:44	WG1713676
PCB 1221	U		0.0123	0.0354	1	07/29/2021 23:44	WG1713676
PCB 1232	U		0.0123	0.0354	1	07/29/2021 23:44	WG1713676
PCB 1242	U		0.0123	0.0354	1	07/29/2021 23:44	WG1713676
PCB 1248	U		0.00767	0.0177	1	07/29/2021 23:44	WG1713676
PCB 1254	U		0.00767	0.0177	1	07/29/2021 23:44	WG1713676
PCB 1260	U		0.00767	0.0177	1	07/29/2021 23:44	WG1713676
(S) Decachlorobiphenyl	*57.6*			*10.0-135*		*07/29/2021 23:44*	WG1713676
(S) Tetrachloro-m-xylene	*53.1*			*10.0-139*		*07/29/2021 23:44*	WG1713676

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00239	0.00624	1	07/29/2021 03:07	WG1713333
Acenaphthene	U		0.00217	0.00624	1	07/29/2021 03:07	WG1713333
Acenaphthylene	U		0.00225	0.00624	1	07/29/2021 03:07	WG1713333
Benzo(a)anthracene	U		0.00180	0.00624	1	07/29/2021 03:07	WG1713333
Benzo(a)pyrene	U		0.00186	0.00624	1	07/29/2021 03:07	WG1713333
Benzo(b)fluoranthene	U		0.00159	0.00624	1	07/29/2021 03:07	WG1713333
Benzo(g,h,i)perylene	U		0.00184	0.00624	1	07/29/2021 03:07	WG1713333
Benzo(k)fluoranthene	U		0.00224	0.00624	1	07/29/2021 03:07	WG1713333
Chrysene	U		0.00241	0.00624	1	07/29/2021 03:07	WG1713333
Dibenz(a,h)anthracene	U		0.00179	0.00624	1	07/29/2021 03:07	WG1713333
Fluoranthene	U		0.00236	0.00624	1	07/29/2021 03:07	WG1713333
Fluorene	U		0.00213	0.00624	1	07/29/2021 03:07	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00188	0.00624	1	07/29/2021 03:07	WG1713333
Naphthalene	U		0.00424	0.0208	1	07/29/2021 03:07	WG1713333
Phenanthrene	U		0.00240	0.00624	1	07/29/2021 03:07	WG1713333
Pyrene	U		0.00208	0.00624	1	07/29/2021 03:07	WG1713333
1-Methylnaphthalene	U		0.00467	0.0208	1	07/29/2021 03:07	WG1713333
2-Methylnaphthalene	U		0.00444	0.0208	1	07/29/2021 03:07	WG1713333
2-Chloronaphthalene	U		0.00485	0.0208	1	07/29/2021 03:07	WG1713333
(S) Nitrobenzene-d5	*88.8*			*14.0-149*		*07/29/2021 03:07*	WG1713333
(S) 2-Fluorobiphenyl	*80.1*			*34.0-125*		*07/29/2021 03:07*	WG1713333
(S) p-Terphenyl-d14	*106*			*23.0-120*		*07/29/2021 03:07*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	07/29/2021 18:09	WG1714179

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0185	0.0411	1	07/29/2021 19:37	WG1713871

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.16		0.103	1.03	5	07/29/2021 21:06	WG1713655
Barium	56.0		0.156	2.57	5	07/29/2021 21:06	WG1713655
Cadmium	0.162	J	0.0878	1.03	5	07/29/2021 21:06	WG1713655
Chromium	7.87		0.304	5.14	5	07/29/2021 21:06	WG1713655
Lead	3.13		0.102	2.05	5	07/29/2021 21:06	WG1713655
Selenium	U		0.185	2.57	5	07/29/2021 21:06	WG1713655
Silver	U		0.0889	0.514	5	07/29/2021 21:06	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.37	4.11	1	07/29/2021 17:26	WG1713309
Residual Range Organics (RRO)	U		3.42	10.3	1	07/29/2021 17:26	WG1713309
(S) o-Terphenyl	*45.6*			*18.0-148*		*07/29/2021 17:26*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0121	0.0349	1	07/29/2021 23:54	WG1713676
PCB 1221	U		0.0121	0.0349	1	07/29/2021 23:54	WG1713676
PCB 1232	U		0.0121	0.0349	1	07/29/2021 23:54	WG1713676
PCB 1242	U		0.0121	0.0349	1	07/29/2021 23:54	WG1713676
PCB 1248	U		0.00758	0.0175	1	07/29/2021 23:54	WG1713676
PCB 1254	U		0.00758	0.0175	1	07/29/2021 23:54	WG1713676
PCB 1260	U		0.00758	0.0175	1	07/29/2021 23:54	WG1713676
(S) Decachlorobiphenyl	*44.6*			*10.0-135*		*07/29/2021 23:54*	WG1713676
(S) Tetrachloro-m-xylene	*39.6*			*10.0-139*		*07/29/2021 23:54*	WG1713676

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00236	0.00616	1	07/29/2021 03:27	WG1713333
Acenaphthene	U		0.00215	0.00616	1	07/29/2021 03:27	WG1713333
Acenaphthylene	U		0.00222	0.00616	1	07/29/2021 03:27	WG1713333
Benzo(a)anthracene	0.00585	J	0.00178	0.00616	1	07/29/2021 03:27	WG1713333
Benzo(a)pyrene	0.00209	J	0.00184	0.00616	1	07/29/2021 03:27	WG1713333
Benzo(b)fluoranthene	0.00619		0.00157	0.00616	1	07/29/2021 03:27	WG1713333
Benzo(g,h,i)perylene	U		0.00182	0.00616	1	07/29/2021 03:27	WG1713333
Benzo(k)fluoranthene	U		0.00221	0.00616	1	07/29/2021 03:27	WG1713333
Chrysene	0.00251	J	0.00238	0.00616	1	07/29/2021 03:27	WG1713333
Dibenz(a,h)anthracene	U		0.00177	0.00616	1	07/29/2021 03:27	WG1713333
Fluoranthene	0.0160		0.00233	0.00616	1	07/29/2021 03:27	WG1713333
Fluorene	U		0.00211	0.00616	1	07/29/2021 03:27	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00186	0.00616	1	07/29/2021 03:27	WG1713333
Naphthalene	U		0.00419	0.0205	1	07/29/2021 03:27	WG1713333
Phenanthrene	0.00456	J	0.00237	0.00616	1	07/29/2021 03:27	WG1713333
Pyrene	0.0172		0.00205	0.00616	1	07/29/2021 03:27	WG1713333
1-Methylnaphthalene	U		0.00461	0.0205	1	07/29/2021 03:27	WG1713333
2-Methylnaphthalene	U		0.00439	0.0205	1	07/29/2021 03:27	WG1713333
2-Chloronaphthalene	U		0.00479	0.0205	1	07/29/2021 03:27	WG1713333
(S) Nitrobenzene-d5	*94.1*			*14.0-149*		*07/29/2021 03:27*	WG1713333
(S) 2-Fluorobiphenyl	*87.1*			*34.0-125*		*07/29/2021 03:27*	WG1713333
(S) p-Terphenyl-d14	*112*			*23.0-120*		*07/29/2021 03:27*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.5		1	07/29/2021 18:09	WG1714179

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0187	0.0415	1	07/29/2021 15:33	WG1713369

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.28		0.104	1.04	5	07/29/2021 21:09	WG1713655
Barium	55.6		0.158	2.59	5	07/29/2021 21:09	WG1713655
Cadmium	0.187	J	0.0886	1.04	5	07/29/2021 21:09	WG1713655
Chromium	8.05		0.307	5.18	5	07/29/2021 21:09	WG1713655
Lead	3.25		0.103	2.07	5	07/29/2021 21:09	WG1713655
Selenium	U		0.187	2.59	5	07/29/2021 21:09	WG1713655
Silver	U		0.0897	0.518	5	07/29/2021 21:09	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.38	4.15	1	07/29/2021 16:17	WG1713309
Residual Range Organics (RRO)	U		3.45	10.4	1	07/29/2021 16:17	WG1713309
(S) o-Terphenyl	*44.0*			*18.0-148*		*07/29/2021 16:17*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0122	0.0352	1	07/30/2021 00:04	WG1713676
PCB 1221	U		0.0122	0.0352	1	07/30/2021 00:04	WG1713676
PCB 1232	U		0.0122	0.0352	1	07/30/2021 00:04	WG1713676
PCB 1242	U		0.0122	0.0352	1	07/30/2021 00:04	WG1713676
PCB 1248	U		0.00765	0.0176	1	07/30/2021 00:04	WG1713676
PCB 1254	U		0.00765	0.0176	1	07/30/2021 00:04	WG1713676
PCB 1260	U		0.00765	0.0176	1	07/30/2021 00:04	WG1713676
(S) Decachlorobiphenyl	*46.1*			*10.0-135*		*07/30/2021 00:04*	WG1713676
(S) Tetrachloro-m-xylene	*40.9*			*10.0-139*		*07/30/2021 00:04*	WG1713676

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00238	0.00622	1	07/29/2021 03:47	WG1713333
Acenaphthene	U		0.00217	0.00622	1	07/29/2021 03:47	WG1713333
Acenaphthylene	U		0.00224	0.00622	1	07/29/2021 03:47	WG1713333
Benzo(a)anthracene	U		0.00179	0.00622	1	07/29/2021 03:47	WG1713333
Benzo(a)pyrene	U		0.00186	0.00622	1	07/29/2021 03:47	WG1713333
Benzo(b)fluoranthene	U		0.00159	0.00622	1	07/29/2021 03:47	WG1713333
Benzo(g,h,i)perylene	U		0.00183	0.00622	1	07/29/2021 03:47	WG1713333
Benzo(k)fluoranthene	U		0.00223	0.00622	1	07/29/2021 03:47	WG1713333
Chrysene	U		0.00240	0.00622	1	07/29/2021 03:47	WG1713333
Dibenz(a,h)anthracene	U		0.00178	0.00622	1	07/29/2021 03:47	WG1713333
Fluoranthene	U		0.00235	0.00622	1	07/29/2021 03:47	WG1713333
Fluorene	U		0.00212	0.00622	1	07/29/2021 03:47	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00188	0.00622	1	07/29/2021 03:47	WG1713333
Naphthalene	U		0.00423	0.0207	1	07/29/2021 03:47	WG1713333
Phenanthrene	U		0.00239	0.00622	1	07/29/2021 03:47	WG1713333
Pyrene	U		0.00207	0.00622	1	07/29/2021 03:47	WG1713333
1-Methylnaphthalene	U		0.00465	0.0207	1	07/29/2021 03:47	WG1713333
2-Methylnaphthalene	U		0.00443	0.0207	1	07/29/2021 03:47	WG1713333
2-Chloronaphthalene	U		0.00483	0.0207	1	07/29/2021 03:47	WG1713333
(S) Nitrobenzene-d5	*79.6*			*14.0-149*		*07/29/2021 03:47*	WG1713333
(S) 2-Fluorobiphenyl	*73.7*			*34.0-125*		*07/29/2021 03:47*	WG1713333
(S) p-Terphenyl-d14	*97.6*			*23.0-120*		*07/29/2021 03:47*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.9		1	07/29/2021 18:09	WG1714179

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0192	0.0426	1	07/29/2021 15:35	WG1713369

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.86		0.107	1.07	5	07/29/2021 21:12	WG1713655
Barium	73.8		0.162	2.66	5	07/29/2021 21:12	WG1713655
Cadmium	0.246	J	0.0911	1.07	5	07/29/2021 21:12	WG1713655
Chromium	8.53		0.315	5.33	5	07/29/2021 21:12	WG1713655
Lead	3.81		0.105	2.13	5	07/29/2021 21:12	WG1713655
Selenium	U		0.192	2.66	5	07/29/2021 21:12	WG1713655
Silver	U		0.0921	0.533	5	07/29/2021 21:12	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	2.39	J	1.42	4.26	1	07/29/2021 16:58	WG1713309
Residual Range Organics (RRO)	14.4		3.55	10.7	1	07/29/2021 16:58	WG1713309
(S) o-Terphenyl	*46.0*			*18.0-148*		*07/29/2021 16:58*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0126	0.0362	1	07/30/2021 00:14	WG1713676
PCB 1221	U		0.0126	0.0362	1	07/30/2021 00:14	WG1713676
PCB 1232	U		0.0126	0.0362	1	07/30/2021 00:14	WG1713676
PCB 1242	U		0.0126	0.0362	1	07/30/2021 00:14	WG1713676
PCB 1248	U		0.00786	0.0181	1	07/30/2021 00:14	WG1713676
PCB 1254	U		0.00786	0.0181	1	07/30/2021 00:14	WG1713676
PCB 1260	U		0.00786	0.0181	1	07/30/2021 00:14	WG1713676
(S) Decachlorobiphenyl	*76.0*			*10.0-135*		*07/30/2021 00:14*	WG1713676
(S) Tetrachloro-m-xylene	*74.6*			*10.0-139*		*07/30/2021 00:14*	WG1713676

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00245	0.00639	1	07/29/2021 04:07	WG1713333
Acenaphthene	U		0.00223	0.00639	1	07/29/2021 04:07	WG1713333
Acenaphthylene	U		0.00230	0.00639	1	07/29/2021 04:07	WG1713333
Benzo(a)anthracene	U		0.00184	0.00639	1	07/29/2021 04:07	WG1713333
Benzo(a)pyrene	U		0.00191	0.00639	1	07/29/2021 04:07	WG1713333
Benzo(b)fluoranthene	0.00216	J	0.00163	0.00639	1	07/29/2021 04:07	WG1713333
Benzo(g,h,i)perylene	U		0.00189	0.00639	1	07/29/2021 04:07	WG1713333
Benzo(k)fluoranthene	U		0.00229	0.00639	1	07/29/2021 04:07	WG1713333
Chrysene	U		0.00247	0.00639	1	07/29/2021 04:07	WG1713333
Dibenz(a,h)anthracene	U		0.00183	0.00639	1	07/29/2021 04:07	WG1713333
Fluoranthene	0.00307	J	0.00242	0.00639	1	07/29/2021 04:07	WG1713333
Fluorene	U		0.00218	0.00639	1	07/29/2021 04:07	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00193	0.00639	1	07/29/2021 04:07	WG1713333
Naphthalene	U		0.00435	0.0213	1	07/29/2021 04:07	WG1713333
Phenanthrene	U		0.00246	0.00639	1	07/29/2021 04:07	WG1713333
Pyrene	0.00347	J	0.00213	0.00639	1	07/29/2021 04:07	WG1713333
1-Methylnaphthalene	U		0.00478	0.0213	1	07/29/2021 04:07	WG1713333
2-Methylnaphthalene	U		0.00455	0.0213	1	07/29/2021 04:07	WG1713333
2-Chloronaphthalene	U		0.00496	0.0213	1	07/29/2021 04:07	WG1713333
(S) Nitrobenzene-d5	*74.3*			*14.0-149*		*07/29/2021 04:07*	WG1713333
(S) 2-Fluorobiphenyl	*68.0*			*34.0-125*		*07/29/2021 04:07*	WG1713333
(S) p-Terphenyl-d14	*85.4*			*23.0-120*		*07/29/2021 04:07*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.1		1	07/29/2021 18:09	WG1714179

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0185	0.0412	1	07/29/2021 15:38	WG1713369

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.96		0.103	1.03	5	07/29/2021 21:23	WG1713655
Barium	55.1		0.156	2.57	5	07/29/2021 21:23	WG1713655
Cadmium	0.180	J	0.0880	1.03	5	07/29/2021 21:23	WG1713655
Chromium	7.22		0.305	5.15	5	07/29/2021 21:23	WG1713655
Lead	4.00		0.102	2.06	5	07/29/2021 21:23	WG1713655
Selenium	U		0.185	2.57	5	07/29/2021 21:23	WG1713655
Silver	U		0.0890	0.515	5	07/29/2021 21:23	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	4.01	J	1.37	4.12	1	07/29/2021 19:04	WG1713309
Residual Range Organics (RRO)	15.0		3.43	10.3	1	07/29/2021 19:04	WG1713309
(S) o-Terphenyl	*42.2*			*18.0-148*		*07/29/2021 19:04*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0121	0.0350	1	07/30/2021 00:24	WG1713676
PCB 1221	U		0.0121	0.0350	1	07/30/2021 00:24	WG1713676
PCB 1232	U		0.0121	0.0350	1	07/30/2021 00:24	WG1713676
PCB 1242	U		0.0121	0.0350	1	07/30/2021 00:24	WG1713676
PCB 1248	U		0.00760	0.0175	1	07/30/2021 00:24	WG1713676
PCB 1254	U		0.00760	0.0175	1	07/30/2021 00:24	WG1713676
PCB 1260	U		0.00760	0.0175	1	07/30/2021 00:24	WG1713676
(S) Decachlorobiphenyl	*65.2*			*10.0-135*		*07/30/2021 00:24*	WG1713676
(S) Tetrachloro-m-xylene	*63.6*			*10.0-139*		*07/30/2021 00:24*	WG1713676

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00237	0.00618	1	07/29/2021 04:27	WG1713333
Acenaphthene	U		0.00215	0.00618	1	07/29/2021 04:27	WG1713333
Acenaphthylene	U		0.00222	0.00618	1	07/29/2021 04:27	WG1713333
Benzo(a)anthracene	U		0.00178	0.00618	1	07/29/2021 04:27	WG1713333
Benzo(a)pyrene	U		0.00184	0.00618	1	07/29/2021 04:27	WG1713333
Benzo(b)fluoranthene	0.00225	J	0.00158	0.00618	1	07/29/2021 04:27	WG1713333
Benzo(g,h,i)perylene	U		0.00182	0.00618	1	07/29/2021 04:27	WG1713333
Benzo(k)fluoranthene	U		0.00221	0.00618	1	07/29/2021 04:27	WG1713333
Chrysene	U		0.00239	0.00618	1	07/29/2021 04:27	WG1713333
Dibenz(a,h)anthracene	U		0.00177	0.00618	1	07/29/2021 04:27	WG1713333
Fluoranthene	0.00313	J	0.00234	0.00618	1	07/29/2021 04:27	WG1713333
Fluorene	U		0.00211	0.00618	1	07/29/2021 04:27	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00186	0.00618	1	07/29/2021 04:27	WG1713333
Naphthalene	U		0.00420	0.0206	1	07/29/2021 04:27	WG1713333
Phenanthrene	0.00305	J	0.00238	0.00618	1	07/29/2021 04:27	WG1713333
Pyrene	0.00315	J	0.00206	0.00618	1	07/29/2021 04:27	WG1713333
1-Methylnaphthalene	U		0.00462	0.0206	1	07/29/2021 04:27	WG1713333
2-Methylnaphthalene	U		0.00440	0.0206	1	07/29/2021 04:27	WG1713333
2-Chloronaphthalene	U		0.00480	0.0206	1	07/29/2021 04:27	WG1713333
(S) Nitrobenzene-d5	*83.4*			*14.0-149*		*07/29/2021 04:27*	WG1713333
(S) 2-Fluorobiphenyl	*79.5*			*34.0-125*		*07/29/2021 04:27*	WG1713333
(S) p-Terphenyl-d14	*102*			*23.0-120*		*07/29/2021 04:27*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	07/29/2021 18:09	WG1714179

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0186	0.0413	1	07/29/2021 15:40	WG1713369

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.04		0.103	1.03	5	07/29/2021 21:26	WG1713655
Barium	68.8		0.157	2.58	5	07/29/2021 21:26	WG1713655
Cadmium	0.211	J	0.0884	1.03	5	07/29/2021 21:26	WG1713655
Chromium	8.57		0.306	5.17	5	07/29/2021 21:26	WG1713655
Lead	3.77		0.102	2.07	5	07/29/2021 21:26	WG1713655
Selenium	0.194	J	0.186	2.58	5	07/29/2021 21:26	WG1713655
Silver	U		0.0894	0.517	5	07/29/2021 21:26	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	1.95	J	1.37	4.13	1	07/29/2021 18:36	WG1713309
Residual Range Organics (RRO)	8.42	J	3.44	10.3	1	07/29/2021 18:36	WG1713309
(S) o-Terphenyl	*43.0*			*18.0-148*		*07/29/2021 18:36*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0122	0.0351	1	07/30/2021 00:34	WG1713676
PCB 1221	U		0.0122	0.0351	1	07/30/2021 00:34	WG1713676
PCB 1232	U		0.0122	0.0351	1	07/30/2021 00:34	WG1713676
PCB 1242	U		0.0122	0.0351	1	07/30/2021 00:34	WG1713676
PCB 1248	U		0.00763	0.0176	1	07/30/2021 00:34	WG1713676
PCB 1254	U		0.00763	0.0176	1	07/30/2021 00:34	WG1713676
PCB 1260	U		0.00763	0.0176	1	07/30/2021 00:34	WG1713676
(S) Decachlorobiphenyl	*34.2*			*10.0-135*		*07/30/2021 00:34*	WG1713676
(S) Tetrachloro-m-xylene	*32.3*			*10.0-139*		*07/30/2021 00:34*	WG1713676

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00238	0.00620	1	07/29/2021 04:47	WG1713333
Acenaphthene	U		0.00216	0.00620	1	07/29/2021 04:47	WG1713333
Acenaphthylene	U		0.00223	0.00620	1	07/29/2021 04:47	WG1713333
Benzo(a)anthracene	U		0.00179	0.00620	1	07/29/2021 04:47	WG1713333
Benzo(a)pyrene	U		0.00185	0.00620	1	07/29/2021 04:47	WG1713333
Benzo(b)fluoranthene	U		0.00158	0.00620	1	07/29/2021 04:47	WG1713333
Benzo(g,h,i)perylene	U		0.00183	0.00620	1	07/29/2021 04:47	WG1713333
Benzo(k)fluoranthene	U		0.00222	0.00620	1	07/29/2021 04:47	WG1713333
Chrysene	U		0.00240	0.00620	1	07/29/2021 04:47	WG1713333
Dibenz(a,h)anthracene	U		0.00178	0.00620	1	07/29/2021 04:47	WG1713333
Fluoranthene	U		0.00235	0.00620	1	07/29/2021 04:47	WG1713333
Fluorene	U		0.00212	0.00620	1	07/29/2021 04:47	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00187	0.00620	1	07/29/2021 04:47	WG1713333
Naphthalene	U		0.00422	0.0207	1	07/29/2021 04:47	WG1713333
Phenanthrene	U		0.00239	0.00620	1	07/29/2021 04:47	WG1713333
Pyrene	U		0.00207	0.00620	1	07/29/2021 04:47	WG1713333
1-Methylnaphthalene	U		0.00464	0.0207	1	07/29/2021 04:47	WG1713333
2-Methylnaphthalene	U		0.00441	0.0207	1	07/29/2021 04:47	WG1713333
2-Chloronaphthalene	U		0.00482	0.0207	1	07/29/2021 04:47	WG1713333
(S) Nitrobenzene-d5	*95.3*			*14.0-149*		*07/29/2021 04:47*	WG1713333
(S) 2-Fluorobiphenyl	*88.2*			*34.0-125*		*07/29/2021 04:47*	WG1713333
(S) p-Terphenyl-d14	*112*			*23.0-120*		*07/29/2021 04:47*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.2		1	07/29/2021 18:09	WG1714179

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0206	0.0459	1	07/29/2021 15:43	WG1713369

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.59		0.115	1.15	5	07/29/2021 21:29	WG1713655
Barium	113		0.174	2.87	5	07/29/2021 21:29	WG1713655
Cadmium	0.101	J	0.0981	1.15	5	07/29/2021 21:29	WG1713655
Chromium	8.86		0.339	5.73	5	07/29/2021 21:29	WG1713655
Lead	14.7		0.114	2.29	5	07/29/2021 21:29	WG1713655
Selenium	0.217	J	0.206	2.87	5	07/29/2021 21:29	WG1713655
Silver	U		0.0992	0.573	5	07/29/2021 21:29	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	20.2		1.53	4.59	1	07/29/2021 19:45	WG1713309
Residual Range Organics (RRO)	170		3.82	11.5	1	07/29/2021 19:45	WG1713309
(S) o-Terphenyl	*34.3*			*18.0-148*		*07/29/2021 19:45*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0135	0.0390	1	07/30/2021 12:21	WG1713676
PCB 1221	U		0.0135	0.0390	1	07/30/2021 12:21	WG1713676
PCB 1232	U		0.0135	0.0390	1	07/30/2021 12:21	WG1713676
PCB 1242	U		0.0135	0.0390	1	07/30/2021 12:21	WG1713676
PCB 1248	U		0.00846	0.0195	1	07/30/2021 12:21	WG1713676
PCB 1254	U		0.00846	0.0195	1	07/30/2021 12:21	WG1713676
PCB 1260	U		0.00846	0.0195	1	07/30/2021 12:21	WG1713676
(S) Decachlorobiphenyl	*63.2*			*10.0-135*		*07/30/2021 12:21*	WG1713676
(S) Tetrachloro-m-xylene	*72.0*			*10.0-139*		*07/30/2021 12:21*	WG1713676

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00264	0.00688	1	07/29/2021 05:07	WG1713333
Acenaphthene	U		0.00240	0.00688	1	07/29/2021 05:07	WG1713333
Acenaphthylene	U		0.00248	0.00688	1	07/29/2021 05:07	WG1713333
Benzo(a)anthracene	U		0.00198	0.00688	1	07/29/2021 05:07	WG1713333
Benzo(a)pyrene	0.00545	J	0.00205	0.00688	1	07/29/2021 05:07	WG1713333
Benzo(b)fluoranthene	0.00671	J	0.00175	0.00688	1	07/29/2021 05:07	WG1713333
Benzo(g,h,i)perylene	0.00680	J	0.00203	0.00688	1	07/29/2021 05:07	WG1713333
Benzo(k)fluoranthene	U		0.00247	0.00688	1	07/29/2021 05:07	WG1713333
Chrysene	0.00499	J	0.00266	0.00688	1	07/29/2021 05:07	WG1713333
Dibenz(a,h)anthracene	U		0.00197	0.00688	1	07/29/2021 05:07	WG1713333
Fluoranthene	0.00640	J	0.00260	0.00688	1	07/29/2021 05:07	WG1713333
Fluorene	U		0.00235	0.00688	1	07/29/2021 05:07	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00540	J	0.00208	0.00688	1	07/29/2021 05:07	WG1713333
Naphthalene	0.0116	J	0.00468	0.0229	1	07/29/2021 05:07	WG1713333
Phenanthrene	0.00923		0.00265	0.00688	1	07/29/2021 05:07	WG1713333
Pyrene	0.00692		0.00229	0.00688	1	07/29/2021 05:07	WG1713333
1-Methylnaphthalene	U		0.00515	0.0229	1	07/29/2021 05:07	WG1713333
2-Methylnaphthalene	U		0.00490	0.0229	1	07/29/2021 05:07	WG1713333
2-Chloronaphthalene	U		0.00534	0.0229	1	07/29/2021 05:07	WG1713333
(S) Nitrobenzene-d5	*74.9*			*14.0-149*		*07/29/2021 05:07*	WG1713333
(S) 2-Fluorobiphenyl	*68.6*			*34.0-125*		*07/29/2021 05:07*	WG1713333
(S) p-Terphenyl-d14	*81.5*			*23.0-120*		*07/29/2021 05:07*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.2		1	07/29/2021 18:09	WG1714179

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0193	0.0429	1	07/29/2021 15:50	WG1713369

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.18		0.107	1.07	5	07/29/2021 21:33	WG1713655
Barium	45.2		0.163	2.68	5	07/29/2021 21:33	WG1713655
Cadmium	0.139	J	0.0917	1.07	5	07/29/2021 21:33	WG1713655
Chromium	7.22		0.318	5.36	5	07/29/2021 21:33	WG1713655
Lead	5.91		0.106	2.15	5	07/29/2021 21:33	WG1713655
Selenium	0.233	J	0.193	2.68	5	07/29/2021 21:33	WG1713655
Silver	U		0.0928	0.536	5	07/29/2021 21:33	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	4.88		1.43	4.29	1	07/30/2021 15:38	WG1713309
Residual Range Organics (RRO)	17.6		3.57	10.7	1	07/30/2021 15:38	WG1713309
(S) o-Terphenyl	*49.7*			*18.0-148*		*07/30/2021 15:38*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0127	0.0365	1	07/30/2021 00:54	WG1713676
PCB 1221	U		0.0127	0.0365	1	07/30/2021 00:54	WG1713676
PCB 1232	U		0.0127	0.0365	1	07/30/2021 00:54	WG1713676
PCB 1242	U		0.0127	0.0365	1	07/30/2021 00:54	WG1713676
PCB 1248	U		0.00792	0.0182	1	07/30/2021 00:54	WG1713676
PCB 1254	U		0.00792	0.0182	1	07/30/2021 00:54	WG1713676
PCB 1260	U		0.00792	0.0182	1	07/30/2021 00:54	WG1713676
(S) Decachlorobiphenyl	*82.0*			*10.0-135*		*07/30/2021 00:54*	WG1713676
(S) Tetrachloro-m-xylene	*79.6*			*10.0-139*		*07/30/2021 00:54*	WG1713676

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.00404	J	0.00247	0.00644	1	07/29/2021 05:47	WG1713333
Acenaphthene	U		0.00224	0.00644	1	07/29/2021 05:47	WG1713333
Acenaphthylene	0.00419	J	0.00232	0.00644	1	07/29/2021 05:47	WG1713333
Benzo(a)anthracene	0.00873		0.00186	0.00644	1	07/29/2021 05:47	WG1713333
Benzo(a)pyrene	0.00925		0.00192	0.00644	1	07/29/2021 05:47	WG1713333
Benzo(b)fluoranthene	0.0520		0.00164	0.00644	1	07/29/2021 05:47	WG1713333
Benzo(g,h,i)perylene	0.0106		0.00190	0.00644	1	07/29/2021 05:47	WG1713333
Benzo(k)fluoranthene	0.0157		0.00231	0.00644	1	07/29/2021 05:47	WG1713333
Chrysene	0.0214		0.00249	0.00644	1	07/29/2021 05:47	WG1713333
Dibenz(a,h)anthracene	0.00235	J	0.00185	0.00644	1	07/29/2021 05:47	WG1713333
Fluoranthene	0.0305		0.00244	0.00644	1	07/29/2021 05:47	WG1713333
Fluorene	U		0.00220	0.00644	1	07/29/2021 05:47	WG1713333

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.0135		0.00194	0.00644	1	07/29/2021 05:47	WG1713333
Naphthalene	U		0.00438	0.0215	1	07/29/2021 05:47	WG1713333
Phenanthrene	0.00482	J	0.00248	0.00644	1	07/29/2021 05:47	WG1713333
Pyrene	0.0367		0.00215	0.00644	1	07/29/2021 05:47	WG1713333
1-Methylnaphthalene	U		0.00482	0.0215	1	07/29/2021 05:47	WG1713333
2-Methylnaphthalene	U		0.00458	0.0215	1	07/29/2021 05:47	WG1713333
2-Chloronaphthalene	U		0.00500	0.0215	1	07/29/2021 05:47	WG1713333
(S) Nitrobenzene-d5	*77.4*			*14.0-149*		*07/29/2021 05:47*	WG1713333
(S) 2-Fluorobiphenyl	*71.0*			*34.0-125*		*07/29/2021 05:47*	WG1713333
(S) p-Terphenyl-d14	*87.8*			*23.0-120*		*07/29/2021 05:47*	WG1713333

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.7		1	07/29/2021 18:09	WG1714179

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0215	0.0478	1	07/29/2021 15:53	WG1713369

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.44		0.119	1.19	5	07/29/2021 21:36	WG1713655
Barium	65.8		0.182	2.99	5	07/29/2021 21:36	WG1713655
Cadmium	0.145	J	0.102	1.19	5	07/29/2021 21:36	WG1713655
Chromium	8.41		0.353	5.97	5	07/29/2021 21:36	WG1713655
Lead	3.28		0.118	2.39	5	07/29/2021 21:36	WG1713655
Selenium	U		0.215	2.99	5	07/29/2021 21:36	WG1713655
Silver	U		0.103	0.597	5	07/29/2021 21:36	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	5.89		1.59	4.78	1	07/29/2021 20:13	WG1713309
Residual Range Organics (RRO)	40.7		3.98	11.9	1	07/29/2021 20:13	WG1713309
(S) o-Terphenyl	*51.8*			*18.0-148*		*07/29/2021 20:13*	WG1713309

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0141	0.0406	1	07/30/2021 01:04	WG1713676
PCB 1221	U		0.0141	0.0406	1	07/30/2021 01:04	WG1713676
PCB 1232	U		0.0141	0.0406	1	07/30/2021 01:04	WG1713676
PCB 1242	U		0.0141	0.0406	1	07/30/2021 01:04	WG1713676
PCB 1248	U		0.00881	0.0203	1	07/30/2021 01:04	WG1713676
PCB 1254	U		0.00881	0.0203	1	07/30/2021 01:04	WG1713676
PCB 1260	U		0.00881	0.0203	1	07/30/2021 01:04	WG1713676
(S) Decachlorobiphenyl	*83.8*			*10.0-135*		*07/30/2021 01:04*	WG1713676
(S) Tetrachloro-m-xylene	*82.3*			*10.0-139*		*07/30/2021 01:04*	WG1713676

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00275	0.00717	1	07/29/2021 20:31	WG1713947
Acenaphthene	U		0.00250	0.00717	1	07/29/2021 20:31	WG1713947
Acenaphthylene	U		0.00258	0.00717	1	07/29/2021 20:31	WG1713947
Benzo(a)anthracene	U		0.00207	0.00717	1	07/29/2021 20:31	WG1713947
Benzo(a)pyrene	U		0.00214	0.00717	1	07/29/2021 20:31	WG1713947
Benzo(b)fluoranthene	U		0.00183	0.00717	1	07/29/2021 20:31	WG1713947
Benzo(g,h,i)perylene	U		0.00211	0.00717	1	07/29/2021 20:31	WG1713947
Benzo(k)fluoranthene	U		0.00257	0.00717	1	07/29/2021 20:31	WG1713947
Chrysene	U		0.00277	0.00717	1	07/29/2021 20:31	WG1713947
Dibenz(a,h)anthracene	U		0.00205	0.00717	1	07/29/2021 20:31	WG1713947
Fluoranthene	U		0.00271	0.00717	1	07/29/2021 20:31	WG1713947
Fluorene	U		0.00245	0.00717	1	07/29/2021 20:31	WG1713947

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00216	0.00717	1	07/29/2021 20:31	WG1713947
Naphthalene	U		0.00487	0.0239	1	07/29/2021 20:31	WG1713947
Phenanthrene	0.00294	J	0.00276	0.00717	1	07/29/2021 20:31	WG1713947
Pyrene	U		0.00239	0.00717	1	07/29/2021 20:31	WG1713947
1-Methylnaphthalene	U		0.00536	0.0239	1	07/29/2021 20:31	WG1713947
2-Methylnaphthalene	U		0.00510	0.0239	1	07/29/2021 20:31	WG1713947
2-Chloronaphthalene	U		0.00556	0.0239	1	07/29/2021 20:31	WG1713947
(S) Nitrobenzene-d5	*56.9*			*14.0-149*		*07/29/2021 20:31*	WG1713947
(S) 2-Fluorobiphenyl	*62.4*			*34.0-125*		*07/29/2021 20:31*	WG1713947
(S) p-Terphenyl-d14	*81.7*			*23.0-120*		*07/29/2021 20:31*	WG1713947

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.8		1	07/29/2021 18:09	WG1714179

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0220	0.0489	1	07/29/2021 15:55	WG1713369

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.79		0.122	1.22	5	07/29/2021 21:39	WG1713655
Barium	163		0.186	3.05	5	07/29/2021 21:39	WG1713655
Cadmium	0.172	J	0.104	1.22	5	07/29/2021 21:39	WG1713655
Chromium	11.7		0.362	6.11	5	07/29/2021 21:39	WG1713655
Lead	7.44		0.121	2.44	5	07/29/2021 21:39	WG1713655
Selenium	0.621	J	0.220	3.05	5	07/29/2021 21:39	WG1713655
Silver	U		0.106	0.611	5	07/29/2021 21:39	WG1713655

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	21.0		1.63	4.89	1	07/30/2021 13:35	WG1714367
Residual Range Organics (RRO)	113		4.07	12.2	1	07/30/2021 13:35	WG1714367
(S) o-Terphenyl	*72.0*			*18.0-148*		*07/30/2021 13:35*	WG1714367

Polychlorinated Biphenyls (GC) by Method 8082 A

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
PCB 1016	U		0.0144	0.0415	1	07/30/2021 12:30	WG1713676
PCB 1221	U		0.0144	0.0415	1	07/30/2021 12:30	WG1713676
PCB 1232	U		0.0144	0.0415	1	07/30/2021 12:30	WG1713676
PCB 1242	U		0.0144	0.0415	1	07/30/2021 12:30	WG1713676
PCB 1248	U		0.00902	0.0208	1	07/30/2021 12:30	WG1713676
PCB 1254	U		0.00902	0.0208	1	07/30/2021 12:30	WG1713676
PCB 1260	U		0.00902	0.0208	1	07/30/2021 12:30	WG1713676
(S) Decachlorobiphenyl	*63.2*			*10.0-135*		*07/30/2021 12:30*	WG1713676
(S) Tetrachloro-m-xylene	*67.8*			*10.0-139*		*07/30/2021 12:30*	WG1713676

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00281	0.00733	1	07/29/2021 22:30	WG1713947
Acenaphthene	U		0.00255	0.00733	1	07/29/2021 22:30	WG1713947
Acenaphthylene	U		0.00264	0.00733	1	07/29/2021 22:30	WG1713947
Benzo(a)anthracene	0.00479	J	0.00211	0.00733	1	07/29/2021 22:30	WG1713947
Benzo(a)pyrene	0.00640	J	0.00219	0.00733	1	07/29/2021 22:30	WG1713947
Benzo(b)fluoranthene	0.00771		0.00187	0.00733	1	07/29/2021 22:30	WG1713947
Benzo(g,h,i)perylene	0.00646	J	0.00216	0.00733	1	07/29/2021 22:30	WG1713947
Benzo(k)fluoranthene	U		0.00263	0.00733	1	07/29/2021 22:30	WG1713947
Chrysene	0.00696	J	0.00283	0.00733	1	07/29/2021 22:30	WG1713947
Dibenz(a,h)anthracene	U		0.00210	0.00733	1	07/29/2021 22:30	WG1713947
Fluoranthene	0.00755		0.00277	0.00733	1	07/29/2021 22:30	WG1713947
Fluorene	U		0.00250	0.00733	1	07/29/2021 22:30	WG1713947

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	0.00519	J	0.00221	0.00733	1	07/29/2021 22:30	WG1713947
Naphthalene	U		0.00499	0.0244	1	07/29/2021 22:30	WG1713947
Phenanthrene	0.00806		0.00282	0.00733	1	07/29/2021 22:30	WG1713947
Pyrene	0.0123		0.00244	0.00733	1	07/29/2021 22:30	WG1713947
1-Methylnaphthalene	U		0.00549	0.0244	1	07/29/2021 22:30	WG1713947
2-Methylnaphthalene	U		0.00522	0.0244	1	07/29/2021 22:30	WG1713947
2-Chloronaphthalene	U		0.00569	0.0244	1	07/29/2021 22:30	WG1713947
(S) Nitrobenzene-d5	*67.0*			*14.0-149*		*07/29/2021 22:30*	WG1713947
(S) 2-Fluorobiphenyl	*69.1*			*34.0-125*		*07/29/2021 22:30*	WG1713947
(S) p-Terphenyl-d14	*87.1*			*23.0-120*		*07/29/2021 22:30*	WG1713947

Method Blank (MB)

(MB) R3685977-1 07/29/21 16:10

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1382341-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1382341-05 07/29/21 16:10 • (DUP) R3685977-3 07/29/21 16:10

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.3	82.0	1	1.67		10

Laboratory Control Sample (LCS)

(LCS) R3685977-2 07/29/21 16:10

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.9	85.0-115	

Method Blank (MB)

(MB) R3685929-1 07/29/21 16:02

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1382341-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1382341-11 07/29/21 16:02 • (DUP) R3685929-3 07/29/21 16:02

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	71.3	71.7	1	0.648		10

Laboratory Control Sample (LCS)

(LCS) R3685929-2 07/29/21 16:02

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.8	85.0-115	

Method Blank (MB)

(MB) R3685927-1 07/29/21 15:56

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1382341-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1382341-20 07/29/21 15:56 • (DUP) R3685927-3 07/29/21 15:56

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.3	91.2	1	1.19		10

Laboratory Control Sample (LCS)

(LCS) R3685927-2 07/29/21 15:56

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.8	99.6	85.0-115	

Method Blank (MB)

(MB) R3686019-1 07/29/21 16:44

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1382341-35 Original Sample (OS) • Duplicate (DUP)

(OS) L1382341-35 07/29/21 16:44 • (DUP) R3686019-3 07/29/21 16:44

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.8	93.4	1	0.367		10

Laboratory Control Sample (LCS)

(LCS) R3686019-2 07/29/21 16:44

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3686018-1 07/29/21 16:02

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1382341-43 Original Sample (OS) • Duplicate (DUP)

(OS) L1382341-43 07/29/21 16:02 • (DUP) R3686018-3 07/29/21 16:02

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	69.6	69.5	1	0.155		10

Laboratory Control Sample (LCS)

(LCS) R3686018-2 07/29/21 16:02

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3686046-1 07/29/21 18:09

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1382341-54 Original Sample (OS) • Duplicate (DUP)

(OS) L1382341-54 07/29/21 18:09 • (DUP) R3686046-3 07/29/21 18:09

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.7	96.7	1	0.0472		10

Laboratory Control Sample (LCS)

(LCS) R3686046-2 07/29/21 18:09

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3685581-1 07/29/21 14:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3685581-2 07/29/21 14:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.501	100	80.0-120	

L1380641-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1380641-01 07/29/21 14:55 • (MS) R3685581-3 07/29/21 14:57 • (MSD) R3685581-4 07/29/21 15:00

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.0651	0.615	0.524	106	88.1	1	75.0-125			16.0	20

Method Blank (MB)

(MB) R3685586-1 07/29/21 17:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3685586-2 07/29/21 17:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.508	102	80.0-120	

L1383418-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1383418-01 07/29/21 17:20 • (MS) R3685586-3 07/29/21 17:23 • (MSD) R3685586-4 07/29/21 17:25

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	U	0.573	0.531	115	106	1	75.0-125			7.59	20

Method Blank (MB)

(MB) R3685582-1 07/29/21 16:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3685582-2 07/29/21 16:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.474	94.8	80.0-120	

L1382341-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-35 07/29/21 16:05 • (MS) R3685582-3 07/29/21 16:08 • (MSD) R3685582-4 07/29/21 16:10

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.533	0.0518	0.610	0.511	105	86.1	1	75.0-125			17.7	20

Method Blank (MB)

(MB) R3685595-1 07/29/21 18:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R3685595-2 07/29/21 18:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.500	0.482	96.5	80.0-120	

L1382334-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382334-08 07/29/21 18:31 • (MS) R3685595-3 07/29/21 18:33 • (MSD) R3685595-4 07/29/21 18:36

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.121	0.782	0.590	132	93.7	1	75.0-125	J5	J3	28.0	20

Method Blank (MB)

(MB) R3685593-1 07/29/21 18:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Chromium	U		0.297	5.00
Lead	U		0.0990	2.00
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500

Laboratory Control Sample (LCS)

(LCS) R3685593-2 07/29/21 18:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	90.1	90.1	80.0-120	
Barium	100	93.9	93.9	80.0-120	
Cadmium	100	93.2	93.2	80.0-120	
Chromium	100	91.6	91.6	80.0-120	
Lead	100	88.8	88.8	80.0-120	
Selenium	100	102	102	80.0-120	
Silver	20.0	19.2	96.1	80.0-120	

L1382341-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-04 07/29/21 18:09 • (MS) R3685593-5 07/29/21 18:20 • (MSD) R3685593-6 07/29/21 18:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	111	0.562	93.0	99.0	83.1	88.4	5	75.0-125			6.25	20
Barium	111	47.0	175	186	115	125	5	75.0-125			6.35	20
Cadmium	111	U	100	107	90.0	96.5	5	75.0-125			6.91	20
Chromium	111	2.36	100	106	87.8	92.6	5	75.0-125			5.28	20
Lead	111	5.84	106	109	89.7	92.6	5	75.0-125			2.96	20
Selenium	111	0.265	106	117	94.7	105	5	75.0-125			10.3	20
Silver	22.3	U	20.2	21.6	90.9	96.8	5	75.0-125			6.29	20

Method Blank (MB)

(MB) R3685843-1 07/30/21 11:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Chromium	U		0.297	5.00
Lead	U		0.0990	2.00
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500

Laboratory Control Sample (LCS)

(LCS) R3685843-2 07/30/21 11:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	97.7	97.7	80.0-120	
Barium	100	99.6	99.6	80.0-120	
Cadmium	100	102	102	80.0-120	
Chromium	100	100	100	80.0-120	
Lead	100	98.7	98.7	80.0-120	
Selenium	100	103	103	80.0-120	
Silver	20.0	20.5	103	80.0-120	

L1382341-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-26 07/30/21 11:23 • (MS) R3685843-5 07/30/21 11:33 • (MSD) R3685843-6 07/30/21 11:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	111	3.35	116	112	102	97.9	5	75.0-125			3.80	20
Barium	111	53.5	222	200	152	132	5	75.0-125	J5	J5	10.2	20
Cadmium	111	U	123	117	111	105	5	75.0-125			5.38	20
Chromium	111	5.07	121	118	105	102	5	75.0-125			2.61	20
Lead	111	6.17	125	117	107	100	5	75.0-125			6.04	20
Selenium	111	0.450	127	120	114	108	5	75.0-125			5.30	20
Silver	22.2	U	24.7	23.3	112	105	5	75.0-125			5.78	20

QUALITY CONTROL SUMMARY

L1382341-41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58

Method Blank (MB)

(MB) R3685613-1 07/29/21 20:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Chromium	U		0.297	5.00
Lead	U		0.0990	2.00
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500

Laboratory Control Sample (LCS)

(LCS) R3685613-2 07/29/21 20:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	87.3	87.3	80.0-120	
Barium	100	88.9	88.9	80.0-120	
Cadmium	100	88.3	88.3	80.0-120	
Chromium	100	88.8	88.8	80.0-120	
Lead	100	84.8	84.8	80.0-120	
Selenium	100	95.9	95.9	80.0-120	
Silver	20.0	18.0	90.2	80.0-120	

L1382341-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-42 07/29/21 20:16 • (MS) R3685613-5 07/29/21 20:26 • (MSD) R3685613-6 07/29/21 20:30

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	106	2.65	92.0	92.3	84.5	84.8	5	75.0-125			0.388	20
Barium	106	54.9	155	174	94.6	113	5	75.0-125			11.7	20
Cadmium	106	0.209	96.6	95.1	91.1	89.7	5	75.0-125			1.54	20
Chromium	106	7.02	98.2	98.8	86.2	86.8	5	75.0-125			0.652	20
Lead	106	3.92	96.6	96.8	87.6	87.8	5	75.0-125			0.204	20
Selenium	106	U	102	101	96.3	95.6	5	75.0-125			0.781	20
Silver	21.2	U	19.4	19.3	91.5	91.1	5	75.0-125			0.413	20

Method Blank (MB)

(MB) R3685858-1 07/30/21 05:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	*47.1*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3685858-2 07/30/21 06:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	33.0	66.0	50.0-150	
(S) o-Terphenyl			*54.2*	*18.0-148*	

L1382341-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-01 07/30/21 08:07 • (MS) R3685858-3 07/30/21 08:21 • (MSD) R3685858-4 07/30/21 08:35

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	52.3	5.46	37.7	41.7	61.6	70.0	1	50.0-150			10.1	20
(S) o-Terphenyl					*39.1*	*41.0*		*18.0-148*				

Method Blank (MB)

(MB) R3685811-1 07/29/21 22:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	*66.2*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3685811-2 07/29/21 22:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	41.6	83.2	50.0-150	
(S) o-Terphenyl			*66.8*	*18.0-148*	

L1382341-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-26 07/30/21 00:05 • (MS) R3685811-3 07/30/21 00:19 • (MSD) R3685811-4 07/30/21 00:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	54.1	8.30	45.7	57.3	69.1	90.4	1	50.0-150		J3	22.6	20
(S) o-Terphenyl					*38.6*	*47.7*		*18.0-148*				

Method Blank (MB)

(MB) R3685182-1 07/29/21 02:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	*42.6*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3685182-2 07/29/21 02:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	26.8	53.6	50.0-150	
(S) o-Terphenyl			*35.9*	*18.0-148*	

L1382341-43 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-43 07/29/21 17:54 • (MS) R3685182-3 07/29/21 18:08 • (MSD) R3685182-4 07/29/21 18:22

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	70.6	16.5	47.4	73.8	43.7	82.1	1	50.0-150	J6	J3	43.6	20
(S) o-Terphenyl					*17.5*	*16.2*		*18.0-148*	J2	J2		

Method Blank (MB)

(MB) R3686005-1 07/30/21 11:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	*71.3*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3686005-2 07/30/21 12:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	47.6	95.2	50.0-150	
(S) o-Terphenyl			*87.8*	*18.0-148*	

L1382245-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382245-07 07/30/21 23:52 • (MS) R3686005-3 07/31/21 00:05 • (MSD) R3686005-4 07/31/21 00:19

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	61.8	3.59	57.3	55.6	87.0	84.2	1	50.0-150			3.06	20
(S) o-Terphenyl					*86.6*	*85.9*		*18.0-148*				

Method Blank (MB)

(MB) R3685441-3 07/29/21 19:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	*62.5*			*10.0-135*
(S) Tetrachloro-m-xylene	*62.2*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3685441-4 07/29/21 19:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.0900	53.9	37.0-145	
PCB 1016	0.167	0.0873	52.3	36.0-141	
(S) Decachlorobiphenyl			*70.3*	*10.0-135*	
(S) Tetrachloro-m-xylene			*73.4*	*10.0-139*	

L1382181-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382181-18 07/30/21 14:14 • (MS) R3686044-1 07/30/21 14:28 • (MSD) R3686044-2 07/30/21 14:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.205	U	0.157	0.157	76.6	76.6	1	10.0-160			0.000	38
PCB 1016	0.205	U	0.160	0.163	77.8	79.6	1	10.0-160			2.28	37
(S) Decachlorobiphenyl					*68.3*	*67.3*		*10.0-135*				
(S) Tetrachloro-m-xylene					*59.3*	*58.7*		*10.0-139*				

L1382181-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382181-18 07/30/21 18:57 • (MS) R3686117-1 07/30/21 19:06 • (MSD) R3686117-2 07/30/21 19:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.205	U	0.145	0.151	70.7	73.7	1	10.0-160			4.15	38
PCB 1016	0.205	U	0.151	0.153	73.7	74.9	1	10.0-160			1.61	37

L1382181-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382181-18 07/30/21 18:57 • (MS) R3686117-1 07/30/21 19:06 • (MSD) R3686117-2 07/30/21 19:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) Decachlorobiphenyl					*65.8*	*65.5*		*10.0-135*				
(S) Tetrachloro-m-xylene					*69.4*	*68.6*		*10.0-139*				

Method Blank (MB)

(MB) R3685852-1 07/29/21 12:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	*68.8*			*10.0-135*
(S) Tetrachloro-m-xylene	*79.0*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3685852-2 07/29/21 12:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.130	77.8	37.0-145	
PCB 1016	0.167	0.143	85.6	36.0-141	
(S) Decachlorobiphenyl			*76.9*	*10.0-135*	
(S) Tetrachloro-m-xylene			*89.3*	*10.0-139*	

L1382341-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-08 07/29/21 12:30 • (MS) R3685852-3 07/29/21 12:39 • (MSD) R3685852-4 07/29/21 12:47

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.191	U	0.130	0.127	68.3	66.9	1	10.0-160			2.67	38
PCB 1016	0.191	U	0.173	0.193	90.4	102	1	10.0-160			11.3	37
(S) Decachlorobiphenyl					*69.4*	*68.6*		*10.0-135*				
(S) Tetrachloro-m-xylene					*80.6*	*80.7*		*10.0-139*				

Method Blank (MB)

(MB) R3685684-1 07/29/21 18:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	*31.8*			*10.0-135*
(S) Tetrachloro-m-xylene	*27.8*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3685684-2 07/29/21 18:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.0805	48.2	37.0-145	
PCB 1016	0.167	0.0773	46.3	36.0-141	
(S) Decachlorobiphenyl			*52.3*	*10.0-135*	
(S) Tetrachloro-m-xylene			*45.6*	*10.0-139*	

Method Blank (MB)

(MB) R3685685-1 07/29/21 18:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	*59.0*			*10.0-135*
(S) Tetrachloro-m-xylene	*61.0*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3685685-2 07/29/21 18:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.0787	47.1	37.0-145	
PCB 1016	0.167	0.0733	43.9	36.0-141	
(S) Decachlorobiphenyl			*49.7*	*10.0-135*	
(S) Tetrachloro-m-xylene			*45.2*	*10.0-139*	

L1382341-48 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-48 07/30/21 11:55 • (MS) R3685880-1 07/30/21 12:04 • (MSD) R3685880-2 07/30/21 12:13

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.182	U	0.150	0.129	82.6	70.7	1	10.0-160			15.6	38
PCB 1016	0.182	U	21.7	13.8	11900	7600	1	10.0-160	J5 P	J3 J5 P	44.2	37
(S) Decachlorobiphenyl					*76.7*	*64.7*		*10.0-135*				
(S) Tetrachloro-m-xylene					*83.5*	*68.8*		*10.0-139*				

Method Blank (MB)

(MB) R3687220-1 08/03/21 00:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.0118	0.0340
PCB 1221	U		0.0118	0.0340
PCB 1232	U		0.0118	0.0340
PCB 1242	U		0.0118	0.0340
PCB 1248	U		0.00738	0.0170
PCB 1254	U		0.00738	0.0170
PCB 1260	U		0.00738	0.0170
(S) Decachlorobiphenyl	*76.1*			*10.0-135*
(S) Tetrachloro-m-xylene	*61.9*			*10.0-139*

Laboratory Control Sample (LCS)

(LCS) R3687220-2 08/03/21 00:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
PCB 1260	0.167	0.119	71.3	37.0-145	
PCB 1016	0.167	0.107	64.1	36.0-141	
(S) Decachlorobiphenyl			*81.1*	*10.0-135*	
(S) Tetrachloro-m-xylene			*62.2*	*10.0-139*	

L1382341-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-31 08/03/21 01:04 • (MS) R3687220-3 08/03/21 01:14 • (MSD) R3687220-4 08/03/21 01:24

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.267	U	0.194	0.165	72.5	62.0	1	10.0-160	P	P	16.1	38
PCB 1016	0.267	U	53.7	50.9	20100	19200	1	10.0-160	J5 P	J5 P	5.21	37
(S) Decachlorobiphenyl					*61.7*	*59.0*		*10.0-135*				
(S) Tetrachloro-m-xylene					*57.1*	*49.5*		*10.0-139*				

Method Blank (MB)

(MB) R3685212-2 07/28/21 18:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*85.0*			*14.0-149*
(S) 2-Fluorobiphenyl	*89.3*			*34.0-125*
(S) p-Terphenyl-d14	*113*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3685212-1 07/28/21 18:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0677	84.6	50.0-126	
Acenaphthene	0.0800	0.0689	86.1	50.0-120	
Acenaphthylene	0.0800	0.0713	89.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0693	86.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0642	80.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0682	85.3	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0689	86.1	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0693	86.6	49.0-125	
Chrysene	0.0800	0.0708	88.5	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0674	84.3	47.0-125	
Fluoranthene	0.0800	0.0682	85.3	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3685212-1 07/28/21 18:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0698	87.3	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0673	84.1	46.0-125	
Naphthalene	0.0800	0.0669	83.6	50.0-120	
Phenanthrene	0.0800	0.0683	85.4	47.0-120	
Pyrene	0.0800	0.0739	92.4	43.0-123	
1-Methylnaphthalene	0.0800	0.0680	85.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0652	81.5	50.0-120	
2-Chloronaphthalene	0.0800	0.0678	84.8	50.0-120	
(S) Nitrobenzene-d5			*92.9*	*14.0-149*	
(S) 2-Fluorobiphenyl			*93.5*	*34.0-125*	
(S) p-Terphenyl-d14			*116*	*23.0-120*	

L1382341-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-03 07/29/21 02:47 • (MS) R3685129-1 07/29/21 03:05 • (MSD) R3685129-2 07/29/21 03:22

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.102	0.0353	0.106	0.0957	69.3	59.5	1	10.0-145			10.2	30
Acenaphthene	0.102	0.00803	0.0836	0.0712	74.0	62.2	1	14.0-127			16.0	27
Acenaphthylene	0.102	0.137	0.193	0.195	54.8	57.7	1	21.0-124			1.34	25
Benzo(a)anthracene	0.102	0.0945	0.145	0.138	49.0	42.8	1	10.0-139			4.61	30
Benzo(a)pyrene	0.102	0.148	0.185	0.206	35.7	56.4	1	10.0-141			10.7	31
Benzo(b)fluoranthene	0.102	0.181	0.193	0.230	11.5	48.7	1	10.0-140			17.8	36
Benzo(g,h,i)perylene	0.102	0.184	0.169	0.161	0.000	0.000	1	10.0-140	J6	J6	4.72	33
Benzo(k)fluoranthene	0.102	0.0301	0.0824	0.0830	51.3	52.1	1	10.0-137			0.630	31
Chrysene	0.102	0.167	0.238	0.300	70.2	131	1	10.0-145			22.8	30
Dibenz(a,h)anthracene	0.102	0.0643	0.100	0.0893	35.2	24.6	1	10.0-132			11.5	31
Fluoranthene	0.102	0.300	0.290	0.370	0.000	69.2	1	10.0-153	J6		24.1	33
Fluorene	0.102	0.0505	0.116	0.109	63.9	57.3	1	11.0-130			6.26	29
Indeno(1,2,3-cd)pyrene	0.102	0.0676	0.0970	0.0908	28.8	22.8	1	10.0-137			6.66	32
Naphthalene	0.102	0.0999	0.171	0.206	69.3	104	1	10.0-135			18.7	27
Phenanthrene	0.102	0.246	0.267	0.316	20.4	69.2	1	10.0-144			17.0	31
Pyrene	0.102	0.383	0.358	0.449	0.000	65.4	1	10.0-148	J6		22.6	35
1-Methylnaphthalene	0.102	0.0247	0.0987	0.0912	72.4	65.4	1	10.0-142			7.96	28
2-Methylnaphthalene	0.102	0.0296	0.104	0.104	73.3	73.2	1	10.0-137			0.500	28
2-Chloronaphthalene	0.102	U	0.0742	0.0615	72.7	60.5	1	29.0-120			18.8	24
(S) Nitrobenzene-d5					*89.0*	*84.0*		*14.0-149*				
(S) 2-Fluorobiphenyl					*71.2*	*67.0*		*34.0-125*				
(S) p-Terphenyl-d14					*79.3*	*77.4*		*23.0-120*				

Method Blank (MB)

(MB) R3685175-2 07/28/21 22:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*75.8*			*14.0-149*
(S) 2-Fluorobiphenyl	*88.2*			*34.0-125*
(S) p-Terphenyl-d14	*118*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3685175-1 07/28/21 21:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0608	76.0	50.0-126	
Acenaphthene	0.0800	0.0675	84.4	50.0-120	
Acenaphthylene	0.0800	0.0713	89.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0615	76.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0607	75.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0687	85.9	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0690	86.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0686	85.8	49.0-125	
Chrysene	0.0800	0.0665	83.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0662	82.8	47.0-125	
Fluoranthene	0.0800	0.0636	79.5	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3685175-1 07/28/21 21:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0683	85.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0613	76.6	46.0-125	
Naphthalene	0.0800	0.0698	87.3	50.0-120	
Phenanthrene	0.0800	0.0640	80.0	47.0-120	
Pyrene	0.0800	0.0751	93.9	43.0-123	
1-Methylnaphthalene	0.0800	0.0708	88.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0668	83.5	50.0-120	
2-Chloronaphthalene	0.0800	0.0663	82.9	50.0-120	
(S) Nitrobenzene-d5			*77.8*	*14.0-149*	
(S) 2-Fluorobiphenyl			*89.9*	*34.0-125*	
(S) p-Terphenyl-d14			*114*	*23.0-120*	

L1382341-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-20 07/29/21 02:19 • (MS) R3685175-3 07/29/21 02:39 • (MSD) R3685175-4 07/29/21 02:59

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0850	0.0121	0.0891	0.0873	90.6	88.1	1	10.0-145			1.97	30
Acenaphthene	0.0850	0.0988	0.172	0.156	86.5	67.0	1	14.0-127			9.90	27
Acenaphthylene	0.0850	0.0165	0.101	0.0997	99.9	97.5	1	21.0-124			1.62	25
Benzo(a)anthracene	0.0850	0.0256	0.0949	0.0905	81.6	76.0	1	10.0-139			4.79	30
Benzo(a)pyrene	0.0850	0.0272	0.0814	0.0841	63.8	66.6	1	10.0-141			3.27	31
Benzo(b)fluoranthene	0.0850	0.0259	0.0879	0.0851	73.0	69.3	1	10.0-140			3.26	36
Benzo(g,h,i)perylene	0.0850	0.0193	0.0710	0.0751	60.8	65.4	1	10.0-140			5.64	33
Benzo(k)fluoranthene	0.0850	0.00554	0.0626	0.0649	67.2	69.5	1	10.0-137			3.57	31
Chrysene	0.0850	0.0318	0.109	0.105	91.5	85.9	1	10.0-145			4.04	30
Dibenz(a,h)anthracene	0.0850	0.00385	0.0515	0.0583	56.1	63.8	1	10.0-132			12.4	31
Fluoranthene	0.0850	0.0929	0.176	0.171	97.3	91.8	1	10.0-153			2.50	33
Fluorene	0.0850	0.0418	0.128	0.119	101	90.6	1	11.0-130			7.02	29
Indeno(1,2,3-cd)pyrene	0.0850	0.0122	0.0586	0.0645	54.6	61.2	1	10.0-137			9.51	32
Naphthalene	0.0850	0.160	0.257	0.237	114	90.1	1	10.0-135			7.89	27
Phenanthrene	0.0850	0.141	0.237	0.216	114	87.6	1	10.0-144			9.57	31
Pyrene	0.0850	0.113	0.195	0.179	96.9	77.4	1	10.0-148			8.70	35
1-Methylnaphthalene	0.0850	0.0611	0.146	0.140	100	92.1	1	10.0-142			4.55	28
2-Methylnaphthalene	0.0850	0.152	0.250	0.238	116	102	1	10.0-137			4.88	28
2-Chloronaphthalene	0.0850	U	0.0690	0.0702	81.2	82.2	1	29.0-120			1.71	24
(S) Nitrobenzene-d5					*86.7*	*85.6*		*14.0-149*				
(S) 2-Fluorobiphenyl					*90.0*	*88.9*		*34.0-125*				
(S) p-Terphenyl-d14					*107*	*102*		*23.0-120*				

Method Blank (MB)

(MB) R3685203-2 07/28/21 23:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*90.3*			*14.0-149*
(S) 2-Fluorobiphenyl	*89.9*			*34.0-125*
(S) p-Terphenyl-d14	*119*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3685203-1 07/28/21 22:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0629	78.6	50.0-126	
Acenaphthene	0.0800	0.0681	85.1	50.0-120	
Acenaphthylene	0.0800	0.0687	85.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0621	77.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0577	72.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0720	90.0	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0668	83.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0727	90.9	49.0-125	
Chrysene	0.0800	0.0670	83.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0659	82.4	47.0-125	
Fluoranthene	0.0800	0.0633	79.1	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3685203-1 07/28/21 22:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0659	82.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0633	79.1	46.0-125	
Naphthalene	0.0800	0.0662	82.8	50.0-120	
Phenanthrene	0.0800	0.0667	83.4	47.0-120	
Pyrene	0.0800	0.0744	93.0	43.0-123	
1-Methylnaphthalene	0.0800	0.0656	82.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0642	80.3	50.0-120	
2-Chloronaphthalene	0.0800	0.0661	82.6	50.0-120	
(S) Nitrobenzene-d5			*90.0*	*14.0-149*	
(S) 2-Fluorobiphenyl			*88.8*	*34.0-125*	
(S) p-Terphenyl-d14			*112*	*23.0-120*	

L1382341-45 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382341-45 07/29/21 01:06 • (MS) R3685203-3 07/29/21 01:26 • (MSD) R3685203-4 07/29/21 01:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0849	U	0.0700	0.0674	82.5	79.1	1	10.0-145			3.78	30
Acenaphthene	0.0849	U	0.0727	0.0708	85.7	83.0	1	14.0-127			2.71	27
Acenaphthylene	0.0849	U	0.0760	0.0731	89.5	85.7	1	21.0-124			3.92	25
Benzo(a)anthracene	0.0849	U	0.0692	0.0678	81.5	79.4	1	10.0-139			2.06	30
Benzo(a)pyrene	0.0849	U	0.0699	0.0682	82.4	79.9	1	10.0-141			2.51	31
Benzo(b)fluoranthene	0.0849	U	0.0725	0.0722	85.5	84.6	1	10.0-140			0.449	36
Benzo(g,h,i)perylene	0.0849	U	0.0690	0.0717	81.3	84.0	1	10.0-140			3.85	33
Benzo(k)fluoranthene	0.0849	U	0.0743	0.0732	87.5	85.8	1	10.0-137			1.47	31
Chrysene	0.0849	U	0.0714	0.0709	84.2	83.1	1	10.0-145			0.760	30
Dibenz(a,h)anthracene	0.0849	U	0.0683	0.0721	80.5	84.5	1	10.0-132			5.40	31
Fluoranthene	0.0849	U	0.0693	0.0679	81.6	79.6	1	10.0-153			2.05	33
Fluorene	0.0849	U	0.0712	0.0691	83.9	81.0	1	11.0-130			3.09	29
Indeno(1,2,3-cd)pyrene	0.0849	U	0.0686	0.0739	80.9	86.7	1	10.0-137			7.44	32
Naphthalene	0.0849	U	0.0715	0.0685	84.3	80.3	1	10.0-135			4.33	27
Phenanthrene	0.0849	U	0.0701	0.0697	82.7	81.7	1	10.0-144			0.619	31
Pyrene	0.0849	U	0.0782	0.0784	92.1	91.9	1	10.0-148			0.277	35
1-Methylnaphthalene	0.0849	U	0.0707	0.0688	83.3	80.7	1	10.0-142			2.64	28
2-Methylnaphthalene	0.0849	U	0.0701	0.0672	82.7	78.8	1	10.0-137			4.26	28
2-Chloronaphthalene	0.0849	U	0.0696	0.0680	82.0	79.7	1	29.0-120			2.36	24
(S) Nitrobenzene-d5					*97.8*	*95.9*		*14.0-149*				
(S) 2-Fluorobiphenyl					*87.3*	*86.4*		*34.0-125*				
(S) p-Terphenyl-d14					*109*	*107*		*23.0-120*				

Method Blank (MB)

(MB) R3685649-2 07/29/21 19:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	*83.1*			*14.0-149*
(S) 2-Fluorobiphenyl	*83.9*			*34.0-125*
(S) p-Terphenyl-d14	*108*			*23.0-120*

Laboratory Control Sample (LCS)

(LCS) R3685649-1 07/29/21 18:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0650	81.3	50.0-126	
Acenaphthene	0.0800	0.0668	83.5	50.0-120	
Acenaphthylene	0.0800	0.0751	93.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0681	85.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0607	75.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0612	76.5	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0601	75.1	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0619	77.4	49.0-125	
Chrysene	0.0800	0.0647	80.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0610	76.3	47.0-125	
Fluoranthene	0.0800	0.0650	81.3	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3685649-1 07/29/21 18:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0681	85.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0612	76.5	46.0-125	
Naphthalene	0.0800	0.0668	83.5	50.0-120	
Phenanthrene	0.0800	0.0624	78.0	47.0-120	
Pyrene	0.0800	0.0719	89.9	43.0-123	
1-Methylnaphthalene	0.0800	0.0695	86.9	51.0-121	
2-Methylnaphthalene	0.0800	0.0660	82.5	50.0-120	
2-Chloronaphthalene	0.0800	0.0638	79.8	50.0-120	
(S) Nitrobenzene-d5			*80.3*	*14.0-149*	
(S) 2-Fluorobiphenyl			*82.7*	*34.0-125*	
(S) p-Terphenyl-d14			*103*	*23.0-120*	

L1382324-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382324-01 07/29/21 21:30 • (MS) R3685649-3 07/29/21 21:50 • (MSD) R3685649-4 07/29/21 22:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0780	0.0217	0.0719	0.0747	64.4	68.3	1	10.0-145			3.82	30
Acenaphthene	0.0780	0.0745	0.117	0.125	54.5	65.1	1	14.0-127			6.61	27
Acenaphthylene	0.0780	U	0.0896	0.0956	115	123	1	21.0-124			6.48	25
Benzo(a)anthracene	0.0780	0.0262	0.0774	0.0851	65.6	75.9	1	10.0-139			9.48	30
Benzo(a)pyrene	0.0780	0.0177	0.0638	0.0723	59.1	70.4	1	10.0-141			12.5	31
Benzo(b)fluoranthene	0.0780	0.0218	0.0645	0.0737	54.7	66.9	1	10.0-140			13.3	36
Benzo(g,h,i)perylene	0.0780	0.0144	0.0560	0.0643	53.3	64.3	1	10.0-140			13.8	33
Benzo(k)fluoranthene	0.0780	0.00737	0.0548	0.0604	60.8	68.3	1	10.0-137			9.72	31
Chrysene	0.0780	0.0293	0.0741	0.0831	57.4	69.3	1	10.0-145			11.5	30
Dibenz(a,h)anthracene	0.0780	0.00242	0.0468	0.0521	56.9	64.0	1	10.0-132			10.7	31
Fluoranthene	0.0780	0.0561	0.105	0.116	62.7	77.2	1	10.0-153			9.95	33
Fluorene	0.0780	0.0600	0.105	0.110	57.7	64.4	1	11.0-130			4.65	29
Indeno(1,2,3-cd)pyrene	0.0780	0.0116	0.0529	0.0604	52.9	62.9	1	10.0-137			13.2	32
Naphthalene	0.0780	10.4	9.24	10.4	0.000	0.000	1	10.0-135	E V	E V	11.8	27
Phenanthrene	0.0780	0.131	0.172	0.184	52.6	68.3	1	10.0-144			6.74	31
Pyrene	0.0780	0.0847	0.135	0.150	64.5	84.1	1	10.0-148			10.5	35
1-Methylnaphthalene	0.0780	6.27	5.70	6.30	0.000	38.7	1	10.0-142	E V	E	10.0	28
2-Methylnaphthalene	0.0780	10.7	9.71	10.7	0.000	0.000	1	10.0-137	E V	E V	9.70	28
2-Chloronaphthalene	0.0780	U	0.0501	0.0529	64.2	68.2	1	29.0-120			5.44	24
(S) Nitrobenzene-d5					*0.000*	*0.000*		*14.0-149*	J2	J2		
(S) 2-Fluorobiphenyl					*69.4*	*64.0*		*34.0-125*				
(S) p-Terphenyl-d14					*85.6*	*74.7*		*23.0-120*				

L1382324-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1382324-01 07/29/21 21:30 • (MS) R3685649-3 07/29/21 21:50 • (MSD) R3685649-4 07/29/21 22:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %

Sample Narrative:

OS: Surrogate failure due to matrix interference

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

GLOSSARY OF TERMS

Qualifier	Description
P	RPD between the primary and confirmatory analysis exceeded 40%.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
NV5 - Wilsonville, OR

9450 SW Commerce Circle
Ste. 300
Wilsonville. OR 97070

Billing Information:
Accounts Payable
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Pres Chk

Report to: **Kyle Haggart**

Email To: **Kyle.Haggart@nv5.com;Steven.Vandecoevering**

Project Description:

City/State Collected: **ST Helens, OR**

Please Circle: (PT) MT CT ET

Phone: **503-968-8787**

Client Project # **StHelens-3-02**

Lab Project # **GEODESPOR-STHELEN302**

Collected by (print): **Tim Hainly**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX NOSGT 8ozClr-NoPres	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8 Metals 6020 4ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH15ml/Syr	Remarks	Sample # (lab only)
DP-1(0-2.5')	Comp	SS		7/22/21	1100	3	X	X	X	X			-01
DP-2(0-3)		SS			1040	3	X	X	X	X			-02
DP-3(0-3)		SS			1015	3	X	X	X	X			-03
DP-4(0-3)		SS			955	3	X	X	X	X			-04
DP-4(5-6)		SS			1000	3	X	X	X	X			-05
DP-5(0-3)		SS			930	3	X	X	X	X			-06
DP-5(5-6)		SS			935	3	X	X	X	X			-07
DP-6(0-3.5')		SS			900	3	X	X	X	X			-08
DP-6(5-7)		SS			905	3	X	X	X	X			-09
DP-7(0-3)		SS			825	3	X	X	X	X			-10

Chain of Custody Page 1 of 7

Pace Analytical®

12065 Lebanon Rd Mount Juliet, TN 37122
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

SDG # 1382341
T 1038
Acctnum: **GEODESPOR**
Template: **T191392**
Prelogin: **P860886**
PM: **110 - Brian Ford**
PB: **7/15/21 MD**
Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: See Trackings: 5217 3307 9603, 5217 3307 9625, 5217 3307 9614, 5217 3307 9636

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __UPS __FedEx __Courier _____

Tracking # 5217 3307 9636

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: Y __Y __N
Bottles arrive intact: Y __Y __N
Correct bottles used: Y __Y __N
Sufficient volume sent: Y __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: Y __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR	If preservation required by Login: Date/Time
Tim Hainly	7/22/21	1300		3	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6 °C Bottles Received: 3.6-.1=3.5 12	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Jasmine Luque	Date: 7/23/21 Time: 830	Hold: / Condition: NCF / OK

Company Name/Address:
NV5 - Wilsonville, OR

9450 SW Commerce Circle
Ste. 300
Wilsonville. OR 97070

Billing Information:
Accounts Payable
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Pres Chk

Report to:
Kyle Haggart

Email To:
Kyle.Haggart@nv5.com;Steven.Vandecoevering

Project Description:

City/State Collected: St Helens, OR

Please Circle: (PT) MT CT ET

Phone: **503-968-8787**

Client Project #
StHelens-3-02

Lab Project #
GEODESPOR-STHELEN302

Collected by (print):
Tim Hainks

Site/Facility ID #

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

Pace Analytical®

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SDG # 158234

Table #

Acctnum: **GEODESPOR**

Template: **T191392**

Prelogin: **P860886**

PM: **110 - Brian Ford**

PB: 7/15/21 MM

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX NOSGT 8ozClr-NoPres	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8 Metals 6020 4ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH15ml/Syr	Remarks	Sample # (lab only)
DP-7(5-7)	Comp	SS		7/22/21	830	3	X	X	X	X			-11
DP-8(0-3.5)	"	SS		"	755	3	X	X	X	X			-12
DP-8(5-8)	"	SS		"	800	3	X	X	X	X			-13
DP-9(0-4)	"	SS		"	735	3	X	X	X	X			-14
DP-9(5-7.5)	"	SS		"	740	3	X	X	X	X			-15
		SS											
		SS											
		SS											
		SS											
		SS											

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 11 11

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by: (Signature)	Date: 7/22/21	Time: 1300	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6-1=3.5 °C Bottles Received: 12
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) Jasmine Luque	Date: 7/23/21 Time: 830

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
NV5 - Wilsonville, OR

9450 SW Commerce Circle
Ste. 300
Wilsonville. OR 97070

Billing Information:
Accounts Payable
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Pres Chk

Report to:
Kyle Haggart

Email To:
Kyle.Haggart@nv5.com;Steven.Vandecoevering

Project Description:

City/State Collected: ST Helens, OR

Please Circle: (PT) MT CT ET

Phone: **503-968-8787**

Client Project #
StHelens-3-02

Lab Project #
GEODESPOR-STHELEN302

Collected by (print):
Tim Hainley

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX NOSGT 8ozClr-NoPres	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8 Metals 6020 4ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH15ml/Syr	Remarks	Sample # (lab only)
DP-10 (0-4)	Comp	SS		7/21/21	1610	3	X	X	X	X			-16
DP-10 (5-8)		SS			1615	3	X	X	X	X			-17
DP-11 (0-3.5)		SS			1635	3	X	X	X	X			-18
DP-11 (5-6)		SS			1645	3	X	X	X	X			-19
DP-12 (0-3)		SS			1545	3	X	X	X	X			-20
DP-12 (5-7.5)		SS			1555	3	X	X	X	X			-21
DP-13 (0-2.5)		SS			1530	3	X	X	X	X			-22
DP-13 (5-8)		SS			1535	3	X	X	X	X			-23
DP-14 (0-3)		SS			1505	3	X	X	X	X			-24
DP-14 (5-7)		SS			1510	3	X	X	X	X			-25

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # " "

Relinquished by : (Signature)

Date: 7/22

Time: 1300

Received by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Relinquished by : (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received: 17

If preservation required by Login: Date/Time

Relinquished by : (Signature)

Date:

Time:

Received for lab by: (Signature)
Jasmine Fuqua

Date: 7/23/21

Time: 830

Hold:

Condition: NCF / OK

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Chain of Custody Page 3 of 7

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SDG # 138341

Table #

Acctnum: **GEODESPOR**

Template: **T191392**

Prelogin: **P860886**

PM: **110 - Brian Ford**

PB: 7/15/21 NVS

Shipped Via: **FedEx Ground**

Company Name/Address:
NV5 - Wilsonville, OR

9450 SW Commerce Circle
Ste. 300
Wilsonville. OR 97070

Billing Information:
Accounts Payable
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Pres Chk

Report to:
Kyle Haggart

Email To:
Kyle.Haggart@nv5.com;Steven.Vandecoevering

Project Description:

City/State Collected: ST Helens, OR

Please Circle: (PT) MT CT ET

Phone: **503-968-8787**

Client Project #
StHelens-3-02

Lab Project #
GEODESPOR-STHELEN302

Collected by (print):
Tim Hainley

Site/Facility ID #

P.O. #

Collected by (signature):
Tim Hainley

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 4 of 7

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SDG # 1382341

Table #

Acctnum: **GEODESPOR**

Template: **T191392**

Prelogin: **P860886**

PM: **110 - Brian Ford**

PB: 7/15/21 MRD

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX NOSGT 8ozClr-NoPres	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8 Metals 6020 4ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH15ml/Syr	Remarks	Sample # (lab only)
DP-15(0-4)	COMP	SS		7/21/21	1430	3	X	X	X	X			-26
DP-15(5-7.5)		SS			1435	3	X	X	X	X			-27
DP-16(0-4)		SS			1355	3	X	X	X	X			-28
DP-16(5-6)		SS			1400	2	X	X	X	X			-29
DP-17(0-4)		SS			1330	3	X	X	X	X			-30
DP-17(5-8)		SS			1335	3	X	X	X	X			-31
DP-18(0-3)		SS			1255	2	X	X	X	X			-32
DP-18(5-8)		SS			1300	3	X	X	X	X			-33
DP-18(10-11)		SS			1305	2	X	X	X	X			-34
DP-19(0-4)		SS			1220	3	X	X	X	X			-35

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # " "

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y	N
COC Signed/Accurate:		Y	N
Bottles arrive intact:		Y	N
Correct bottles used:		Y	N
Sufficient volume sent:		Y	N
If Applicable			
VOA Zero Headspace:		Y	N
Preservation Correct/Checked:		Y	N
RAD Screen <0.5 mR/hr:		Y	N

Relinquished by : (Signature)	Date: 7/22	Time: 1300	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 3.6-1=3.5 17 2	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Jasmine Fuqua	Date: 7/23/21 Time: 830	Hold: Condition: NCF / OK

Company Name/Address:
NV5 - Wilsonville, OR

9450 SW Commerce Circle
Ste. 300
Wilsonville. OR 97070

Billing Information:
Accounts Payable
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Pres Chk

Report to:
Kyle Haggart

Email To:
Kyle.Haggart@nv5.com;Steven.Vandecoevering

Project Description:

City/State Collected: ST Helens, OR

Please Circle: (PT) MT CT ET

Phone: **503-968-8787**

Client Project #
StHelens-3-02

Lab Project #
GEODESPOR-STHELEN302

Collected by (print):
Tim Hainley

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 5 of 7

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SDG # 382341

Table #

Acctnum: **GEODESPOR**

Template: **T191392**

Prelogin: **P860886**

PM: **110 - Brian Ford**

PB: 7/15/21 VVG

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX NOSGT 8ozClr-NoPres	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8 Metals 6020 4ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH15ml/Syr						Remarks	Sample # (lab only)
DP-19(5-8.5)	Comp	SS		7/21/21	1225	3	X	X	X	X								-36
DP-19(10-13.5)	"	SS		"	1230	3	X	X	X	X								-37
DP-20(0-2.5)	"	SS		"	1145	3	X	X	X	X								-38
DP-20(5-7.5)	"	SS		"	1150	3	X	X	X	X								-39
DP-20(10-11)	"	SS		"	1155	3	X	X	X	X								-40
DP-21(0-4)	"	SS		"	1050	3	X	X	X	X								-41
DP-21(5-7.5)	"	SS		"	1055	3	X	X	X	X								-42
DP-21(10-12.5)	"	SS		"	1105	3	X	X	X	X								-43
DP-22(0-4)	"	SS		"	1020	3	X	X	X	X								-44
DP-22(5-8.5)	"	SS		"	1025	3	X	X	X	X								-45

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # "

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
Tim Hainley	7/22/21	1300			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.7+2.2 °C Bottles Received: 3.6-1.2-3.5 172	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Yasmine Fuqua	Date: 7/23/21 Time: 800	Hold: / Condition: NCF / OK

Company Name/Address:
NV5 - Wilsonville, OR

9450 SW Commerce Circle
Ste. 300
Wilsonville. OR 97070

Billing Information:
Accounts Payable
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Pres Chk

Report to:
Kyle Haggart

Email To:
Kyle.Haggart@nv5.com;Steven.Vandecoevering

Project Description:

City/State Collected: ST Helens, OR

Please Circle: (PT) MT CT ET

Phone: **503-968-8787**

Client Project #
StHelens-3-02

Lab Project #
GEODESPOR-STHELEN302

Collected by (print):
Tim Hainley

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX NOSGT 8ozClr-NoPres	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8 Metals 6020 4ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH15ml/Syr						Remarks	Sample # (lab only)
DP-22(10-14)	comp	SS		7/21/21	1035	3	X	X	X	X								-46
DP-23(0-4)		SS			955	3	X	X	X	X								-47
DP-23(5-9)		SS			1000	3	X	X	X	X								-48
DP-23(10-13.5)		SS			1005	3	X	X	X	X								-49
DP-24(0-4)		SS			930	3	X	X	X	X								-50
DP-24(5-9)		SS			935	3	X	X	X	X								-51
DP-24(10-13)		SS			940	3	X	X	X	X								-52
DP-25(0-2.5)		SS			900	3	X	X	X	X								-53
DP-25(5-8)		SS			905	3	X	X	X	X								-54
DP-25(10-11.5)		SS			910	3	X	X	X	X								-55

Analysis / Container / Preservative

Chain of Custody Page 6 of 7

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SDG # 138241

Table #

Acctnum: **GEODESPOR**

Template: **T191392**

Prelogin: **P860886**

PM: **110 - Brian Ford**

PB: 7/15 a1nn

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # " "

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeOH TBR	If preservation required by Login: Date/Time
Tim Hainley	7/22/21	1300		3	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.7 2.1 °C Bottles Received: 3.6-1233 172	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Jasmine Fuqua	Date: 7/23/21 Time: 830	Hold: Condition: NCF / OK

Company Name/Address:
NV5 - Wilsonville, OR

9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Billing Information:
Accounts Payable
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 7 of 7

Pace Analytical®

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Report to: Kyle Haggart

Email To: Kyle.Haggart@nv5.com;Steven.Vandecoevering

Project Description:

City/State Collected: St Helens, OR

Please Circle: (PT) MT CT ET

Phone: 503-968-8787

Client Project #: StHelens-3-02

Lab Project #: GEODESPOR-STHELEN302

SDG # 1382341

Table #

Acctnum: GEODESPOR
Template: T191392
Prelogin: P860886
PM: 110 - Brian Ford
PB: 7/15/21 MB
Shipped Via: FedEX Ground

Collected by (print): Tim Hainley

Site/Facility ID #

P.O. #

Collected by (signature): [signature]

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX NOSGT 8ozClr-NoPres	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8 Metals 6020 4ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH15ml/Syr						Remarks	Sample # (lab only)
DP-26(0-3)	comp	SS		7/21/21	830	3	X	X	X	X								-56
DP-26(5-7.5)	|	SS		|	835	3	X	X	X	X								-57
DP-26(10-12)	|	SS			845	3	X	X	X	X								-58
		SS																
		SS																
		SS																
		SS																
		SS																
		SS																
		SS																

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other________

Remarks:

pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS __ FedEx __ Courier ______

Tracking # " "

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: ✓Y N
Bottles arrive intact: ✓Y N
Correct bottles used: ✓Y N
Sufficient volume sent: ✓Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: ✓Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: (Yes) / No (HCl) / MeoH TBR 3	
[signature]	7/22/21	1300			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 3.4-1=3.3 Bottles Received: 172	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Jasmine Fuqua	Date: 7/23/21 Time: 830	Hold: Condition: NCF / (OK)

ANALYTICAL REPORT

August 19, 2021

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

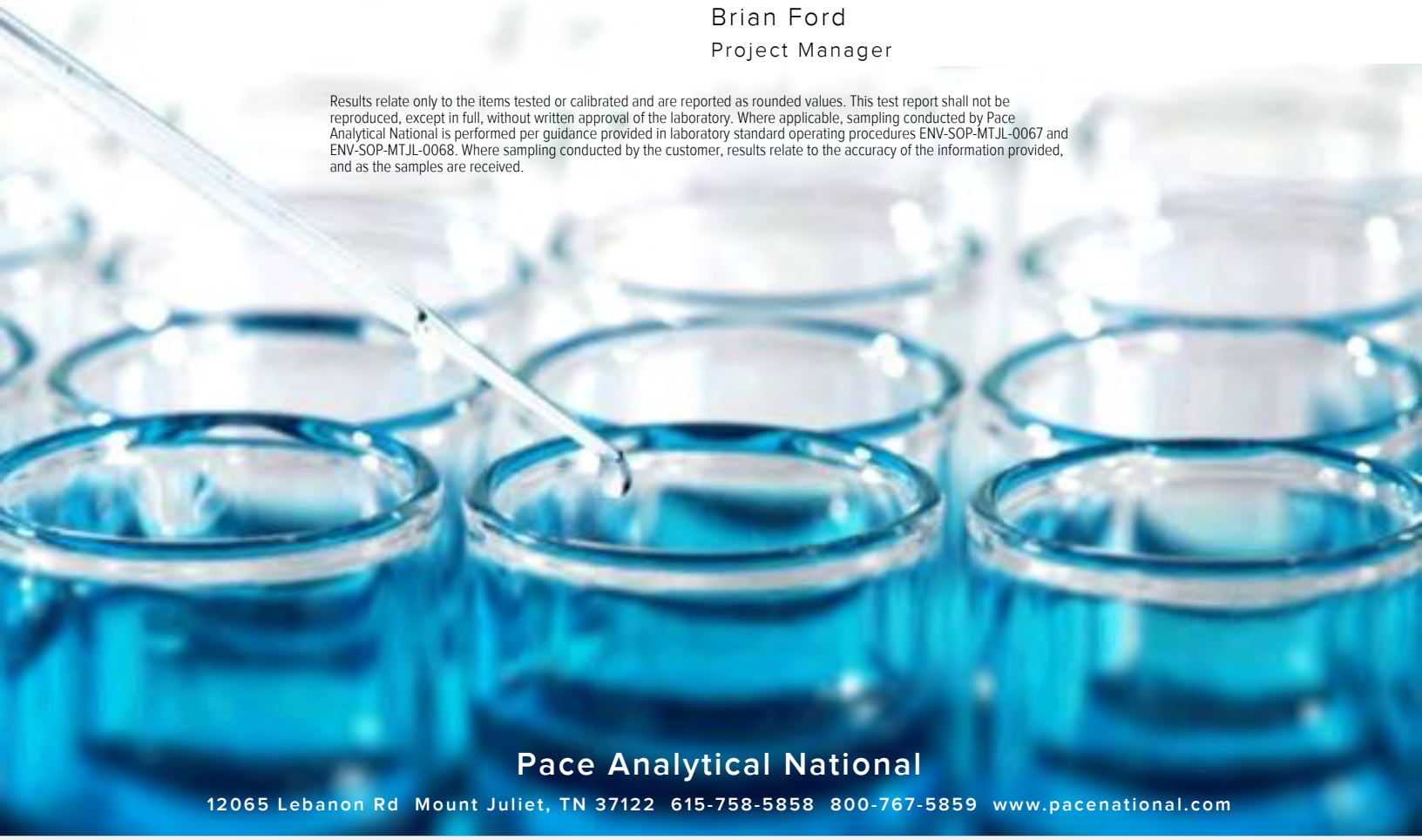
NV5 - Wilsonville, OR

Sample Delivery Group:	L1387538
Samples Received:	07/23/2021
Project Number:	StHelens-3-02
Description:	

Report To: Krysta Krippaehne
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Entire Report Reviewed By:

Brian Ford
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

DP-2(0-3) L1387538-01 Waste

Collected by: Tim Hainley
Collected date/time: 07/22/21 10:40
Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG1719736	1	08/09/21 14:48	08/09/21 14:48	IDW	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1720866	1	08/10/21 21:45	08/12/21 05:45	CCE	Mt. Juliet, TN

DP-15(5-7.5) L1387538-02 Waste

Collected by: Tim Hainley
Collected date/time: 07/21/21 14:35
Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG1719736	1	08/09/21 14:48	08/09/21 14:48	IDW	Mt. Juliet, TN
Mercury by Method 7470A	WG1720792	1	08/10/21 16:58	08/11/21 09:53	SD	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1720866	1	08/10/21 21:45	08/12/21 06:03	CCE	Mt. Juliet, TN

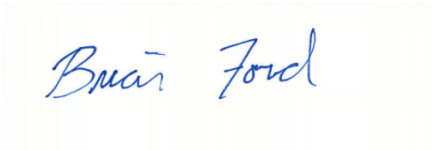
DP-19(5-8.5) L1387538-03 Waste

Collected by: Tim Hainley
Collected date/time: 07/21/21 12:25
Received date/time: 07/23/21 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG1724036	1	08/17/21 06:55	08/17/21 06:55	APH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG1725286	1	08/18/21 12:51	08/18/21 21:29	KMG	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		8/9/2021 2:48:01 PM	WG1719736
Fluid	1		8/9/2021 2:48:01 PM	WG1719736
Initial pH	6.67		8/9/2021 2:48:01 PM	WG1719736
Final pH	4.90		8/9/2021 2:48:01 PM	WG1719736

Metals (ICP) by Method 6010D

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Lead	ND		0.100	5	1	08/12/2021 05:45	WG1720866

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		8/9/2021 2:48:01 PM	WG1719736
Fluid	1		8/9/2021 2:48:01 PM	WG1719736
Initial pH	6.43		8/9/2021 2:48:01 PM	WG1719736
Final pH	4.87		8/9/2021 2:48:01 PM	WG1719736

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	08/11/2021 09:53	WG1720792

Metals (ICP) by Method 6010D

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Lead	0.172		0.100	5	1	08/12/2021 06:03	WG1720866

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		8/17/2021 6:55:43 AM	WG1724036
Fluid	1		8/17/2021 6:55:43 AM	WG1724036
Initial pH	7.51		8/17/2021 6:55:43 AM	WG1724036
Final pH	5.29		8/17/2021 6:55:43 AM	WG1724036

Metals (ICP) by Method 6010D

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Lead	ND		0.100	5	1	08/18/2021 21:29	WG1725286

QUALITY CONTROL SUMMARY

L1387538-02

Method Blank (MB)

(MB) R3690549-1 08/11/21 09:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.00330	0.0100

Laboratory Control Sample (LCS)

(LCS) R3690549-2 08/11/21 09:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.0300	0.0321	107	80.0-120	

L1387538-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1387538-02 08/11/21 09:53 • (MS) R3690549-3 08/11/21 09:55 • (MSD) R3690549-4 08/11/21 09:57

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.0300	ND	0.0306	0.0315	102	105	1	75.0-125			2.90	20

L1387584-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1387584-01 08/11/21 09:59 • (MS) R3690549-5 08/11/21 10:02 • (MSD) R3690549-6 08/11/21 10:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.0300	ND	0.0247	0.0246	82.3	82.0	1	75.0-125			0.406	20

Method Blank (MB)

(MB) R3691178-1 08/12/21 05:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.0333	0.100

Laboratory Control Sample (LCS)

(LCS) R3691178-2 08/12/21 05:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	10.0	9.80	98.0	80.0-120	

L1387485-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1387485-02 08/12/21 05:34 • (MS) R3691178-4 08/12/21 05:40 • (MSD) R3691178-5 08/12/21 05:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	10.0	ND	9.85	9.90	98.5	99.0	1	75.0-125			0.467	20

L1387538-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1387538-01 08/12/21 05:45 • (MS) R3691178-6 08/12/21 05:48 • (MSD) R3691178-7 08/12/21 05:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	10.0	ND	9.93	9.99	98.9	99.4	1	75.0-125			0.521	20

Method Blank (MB)

(MB) R3693702-1 08/18/21 21:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.0333	0.100

Laboratory Control Sample (LCS)

(LCS) R3693702-2 08/18/21 21:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	10.0	9.79	97.9	80.0-120	

L1387538-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1387538-03 08/18/21 21:29 • (MS) R3693702-4 08/18/21 21:34 • (MSD) R3693702-5 08/18/21 21:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	10.0	ND	9.78	9.72	97.8	97.2	1	75.0-125			0.558	20

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
NV5 - Wilsonville, OR

9450 SW Commerce Circle
Ste. 300
Wilsonville. OR 97070

Billing Information:
Accounts Payable
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Pres Chk

Report to: Kyle Haggart

Email To: Kyle.Haggart@nv5.com;Steven.Vandecoevering

Project Description:

City/State Collected: St Helens, OR

Please Circle: (PT) MT CT ET

Phone: 503-968-8787

Client Project # StHelens-3-02

Lab Project # GEODESPOR-STHELEN302

Collected by (print): Tim Hainly

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX NOSGT 8ozClr-NoPres	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8 Metals 6020 4ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH15ml/Syr	Remarks	Sample # (lab only)
DP-1(0-2.5)	Comp	SS		7/22/21	1100	3	X	X	X	X			-01
DP-2(0-3)		SS			1040	3	X	X	X	X			-02
DP-3(0-3)		SS			1015	3	X	X	X	X			-03
DP-4(0-3)		SS			955	3	X	X	X	X			-04
DP-4(5-6)		SS			1000	3	X	X	X	X			-05
DP-5(0-3)		SS			930	3	X	X	X	X			-06
DP-5(5-6)		SS			935	3	X	X	X	X			-07
DP-6(0-3.5)		SS			900	3	X	X	X	X			-08
DP-6(5-7)		SS			905	3	X	X	X	X			-09
DP-7(0-3)		SS			825	3	X	X	X	X			-10

Chain of Custody Page 1 of 1

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L1387538

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SDG # 1382344

T 1038

Acctnum: GEODESPOR
Template: T191392
Prelogin: P860886
PM: 110 - Brian Ford
PB: 7/15/21 mvb
Shipped Via: FedEX Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: Trackings: 5217 3307 9603, 5217 3307 9625, 5217 3307 9614, 5217 3307 9636 See

pH ____ Temp ____ Flow ____ Other ____

Samples returned via: __UPS __FedEx __Courier ____

Tracking # 5217 3307 9636

Sample Receipt Checklist
COC Seal Present/Intact: ___ Y ___ N
COC Signed/Accurate: Y ___ N
Bottles arrive intact: Y ___ N
Correct bottles used: Y ___ N
Sufficient volume sent: Y ___ N
If Applicable
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ___ Y ___ N
RAD Screen <0.5 mR/hr: Y ___ N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes No HCl MeoH TBR	If preservation required by Login: Date/Time
	7/22/21	1300		3	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6 °C Bottles Received: 3.6-.1=3.5 12	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Jasmine Fuqua	Date: 7/23/21 Time: 830	Hold: Condition: NCF / OK

Company Name/Address:
NV5 - Wilsonville, OR

9450 SW Commerce Circle
Ste. 300
Wilsonville. OR 97070

Billing Information:
Accounts Payable
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Pres Chk

Report to: Kyle Haggart

Email To: Kyle.Haggart@nv5.com;Steven.Vandecoevering

Project Description:

City/State Collected: St Helens, OR

Please Circle: (PT) MT CT ET

Phone: 503-968-8787

Client Project # StHelens-3-02

Lab Project # GEODESPOR-STHELEN302

Collected by (print): Tim Hainley

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX NOSGT 8ozClr-NoPres	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8 Metals 6020 4ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH15ml/Syr	Remarks	Sample # (lab only)
DP-15(0-4)	Comp	SS		7/21/21	1430	3	X	X	X	X			-26
DP-15(5-7.5)		SS			1435	3	X	X	X	X			-27 -02
DP-16(0-4)		SS			1355	3	X	X	X	X			-28
DP-16(5-6)		SS			1400	2	X	X	X	X			-29
DP-17(0-4)		SS			1330	3	X	X	X	X			-30
DP-17(5-8)		SS			1335	3	X	X	X	X			-31
DP-18(0-3)		SS			1255	2	X	X	X	X			-32
DP-18(5-8)		SS			1300	3	X	X	X	X			-33
DP-18(10-11)		SS			1305	2	X	X	X	X			-34
DP-19(0-4)		SS			1220	3	X	X	X	X			-35

Chain of Custody Page 4 of 7

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SDG # 138234

Table #

Acctnum: GEODESPOR

Template: T191392

Prelogin: P860886

PM: 110 - Brian Ford

PB: 7/15/21 MJ

Shipped Via: FedEX Ground

Remarks | Sample # (lab only)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # "

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	
	7/22	1300		3	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	If preservation required by Login: Date/Time
				3.6-1=3.5 17 2	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
			Jasmine Trujillo	7/23/21 830	

Company Name/Address:
NV5 - Wilsonville, OR

9450 SW Commerce Circle
Ste. 300
Wilsonville. OR 97070

Billing Information:
Accounts Payable
9450 SW Commerce Circle
Ste. 300
Wilsonville, OR 97070

Pres Chk

Report to: **Kyle Haggart**

Email To: Kyle.Haggart@nv5.com;Steven.Vandecoevering

Project Description:

City/State Collected: ST Helens, OR

Please Circle: (PT) MT CT ET

Phone: **503-968-8787**

Client Project # **StHelens-3-02**

Lab Project # **GEODESPOR-STHELEN302**

Collected by (print): Tim Hainley

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 5 of 7

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SDG # 138234

Table #

Acctnum: GEODESPOR

Template: T191392

Prelogin: P860886

PM: 110 - Brian Ford

PB: 7/15/21 MW

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX NOSGT 8ozClr-NoPres	PAHs 8270ESIM 8ozClr-NoPres	PCBs 8082 8ozClr-NoPres	RCRA8 Metals 6020 4ozClr-NoPres	VOCs 8260D 40mlAmb/MeOH15ml/Syr	Remarks	Sample # (lab only)
DP-19(5-8.5)	Comp	SS		7/21/21	1225	3	X	X	X	X			-36 -03
DP-19(10-13.5)		SS			1230	3	X	X	X	X			-37
DP-20(0-2.5)		SS			1145	3	X	X	X	X			-38
DP-20(5-7.5)		SS			1150	3	X	X	X	X			-39
DP-20(10-11)		SS			1155	3	X	X	X	X			-40
DP-21(0-4)		SS			1050	3	X	X	X	X			-41
DP-21(5-7.5)		SS			1055	3	X	X	X	X			-42
DP-21(10-12.5)		SS			1105	3	X	X	X	X			-43
DP-22(0-4)		SS			1020	3	X	X	X	X			-44
DP-22(5-8.5)		SS			1025	3	X	X	X	X			-45

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # "

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
Tim Hainley	7/22/21	1300			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.3 +2 °C Bottles Received: 3.6+2=3.5 12	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Jasmine Trejo	Date: 7/23/21 Time: 830	Hold: Condition: NCF / OK

L1382341 GEODESPOR re-log

R5

Please re-log as R5 due 08/13.

L1382341-02 (DP-2(0-3)): TCLP PBICP.
L1382341-27 (DP-15(5-7.5)): TCLP PBICP, Hg.
L1382341-36 (DP-19(5-8.5)): TCLP PBICP.

Time estimate: oh **Time spent:** oh

Members

Brian Ford

NV5

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Improving Lives