

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2026856616
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.	OGRID: 246289
Contact Name: Lynda Laumbach	Contact Telephone: (575) 725-1647
Contact email: Lynda.Laumbach@wpxenergy.com	Incident # (assigned by OCD) NRM2026856616
Contact mailing address: 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.32848 Longitude -104.03308
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Longview Federal I #44	Site Type: Production Facility
Date Release Discovered: 09/21/2020	API# (if applicable): 30-015-38070

Unit Letter	Section	Township	Range	County
P	01	23S	28E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls): 4.25	Volume Recovered (bbls): 2
☒ Produced Water	Volume Released (bbls): 12.75	Volume Recovered (bbls): 6
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Rod lining packing failed causing an estimated 17bbl of production fluid to be released onto the pad surface.

$$bbl\ estimate = \frac{saturated\ soil\ volume\ (ft^3)}{4.21(\frac{ft^3}{bbl\ equivalent})} * estimated\ soil\ porosity(\%)$$

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Lynda Laumbach</u>	Title: <u>Environmental Specialist</u>
Signature: <u></u>	Date: <u>09/21/2020</u>
email: <u>Lynda.Laumbach@wpenergy.com</u>	Telephone: <u>(575)725-1647</u>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>9/24/2020</u>

Incident ID	
District RP	NRM2026856616
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	INRM2026856616
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Lynda Laumbach Title: Environmental Specialist
Signature:  Date: 09/21/2020
email: Lynda.Laumbach@wpenergy.com Telephone: (575)725-1647

OCD Only

Received by: Ramona Marcus Date: 9/24/2020

Incident ID	NRM2026856616
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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Lynda Laumbach Title: Environmental Specialist
Signature:  Date: 11/23/2020
email: lynda.laumbach@wpenergy.com Telephone: 575-725-1647

OCD Only

Received by: Chad Hensley Date: 02/23/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 02/23/2021
Printed Name: Chad Hensley Title: Environmental Specialist Advanced



November 19, 2020

District 2
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

**Subject: Closure Request
WPX Energy Permian, LLC
Longview Federal 1 #44
Incident Number NRM2026856616
Eddy County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP, formerly LT Environmental, Inc.), on behalf of WPX Energy Permian, Inc. (WPX), presents the following Closure Request detailing soil sampling and excavation activities at the Longview Federal 1 #44 (Site) in Unit P, Section 1, Township 23 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the soil sampling and excavation activities was to address impacts to soil following an event that resulted in the release of crude oil and produced water to the surface of the well pad.

BACKGROUND

On September 21, 2020, the rod lining packing for the wellhead failed, resulting in the release of approximately 4.25 barrels (bbls) of crude oil and 12.75 bbls of produced water to the well pad surface. Vacuum trucks were immediately dispatched and recovered approximately 2 bbls of crude oil and 6 bbls of produced water. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on September 21, 2020 and was subsequently assigned Incident Number NRM2026856616.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC):

- The closest significant watercourse to the Site is the Pecos River located approximately 7,321 feet west of the Site;
- The Site is greater than 300 feet from any occupied residence, school, hospital, institution, church, or wetland;
- The Site is greater than 1,000 feet to a freshwater well or spring and is not within an unstable area, 100-year floodplain, or overlying a subsurface mine;
- The Site is located in a medium-potential karst area;
- Depth to groundwater at the Site is estimated to be greater than 55 feet below ground surface (bgs) based on an identified water well. The nearest permitted water well is New Mexico Office of the State Engineer (NMOSE) file number C-04418, located approximately 0.59 miles southwest of the Site. NMOSE well C-04418 was drilled by WPX on March 31, 2020 during a depth to water study of the area. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 55 feet bgs. No water was observed within the soil boring after 48 hours and the boring was plugged and abandoned. The NMOSE Well Record and Log of the well is included as Enclosure A.

Potential receptors identified during Site Characterization are displayed in Figure 1.

WSP USA
3300 NORTH A STREET-BUILDING 1, UNIT 222
MIDLAND TX 79705

Tel.: 432-704-5178
wsp.com



CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

EXCAVATION AND SOIL SAMPLING ACTIVITIES

From September 24, 2020 to October 19, 2020, WSP personnel was onsite to oversee excavation activities within the subject release area. Prior to initiating excavation activities onsite, WSP reviewed and verified the Form C-141 incident description (release source and release location) with visual soil impacts and confirmed that the release was contained to the well pad. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is presented on Figure 2.

Excavation of impacted soil was directed by field screening soil samples for volatile aromatic hydrocarbons using a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. When field screening indicated compliance with Closure Criteria, 5-point composite confirmation soil samples (FS01 through FS67) were collected from the excavation area. The composite floor samples in the excavation included soil from the sidewalls and represented, at most, 200 square feet. The soil samples were placed directly into a pre-cleaned glass jars, labeled with the location, date, time, sampler initials, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody (COC) procedures, to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States EPA Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

During the duration of remediation activities, approximately 400 cubic yards of impacted soil were removed from the excavation area and transported to the R360 Halfway Facility in Hobbs, New Mexico for disposal under WPX-approved manifests. The excavation area measured a total of approximately 12,674 square feet in area and ranged in depth from 0.15 to 2.5 feet bgs. The excavation area and soil sample locations are depicted on Figure 2. Photographic documentation was conducted throughout remediation activities and is presented in Enclosure B.

Laboratory analytical results for soil samples FS01, FS03 through FS23, FS25 through FS58, and FS60 through FS67 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Initial laboratory analytical results for chloride indicated additional removal of impacted soil was required in the areas represented by soil samples FS02, FS24, and FS59. Remediation in these areas was confirmed via laboratory analytical results of soil samples FS02A, FS24A and FS59A, respectively, after the additional soil was removed.

DELINEATION SOIL SAMPLING ACTIVITIES

During excavation activities on October 19, 2020, WSP personnel conducted delineation activities to define the periphery of horizontal impacts. WSP utilized a hand auger to advance four boreholes (BH01 through BH04) around the subject release extent. Two soil samples were collected at depth intervals 0.3 to 0.5 feet bgs and 0.75 to 1 foot bgs at each borehole location. Delineation activities were directed by field screening soil samples for volatile aromatic hydrocarbons using a calibrated PID and chloride using Hach® chloride QuanTab® test strips. The delineation soil samples were collected, handled, and analyzed as previously described. Field screening results and observations for the boreholes were recorded on lithologic/soil sampling logs and are presented in Enclosure C. The borehole sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 3.

Laboratory analytical results for the delineation soil samples collected from boreholes indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria.

ANALYTICAL RESULTS

Laboratory analytical results of all final excavation confirmation soil samples indicate compliance with the Closure Criteria. Laboratory analytical results from the delineation soil samples indicate compliance with the Closure Criteria and defines the periphery of horizontal



impact associated with the subject release to 600 mg/kg chloride or less. Laboratory analytical results are summarized in Table 1. Complete laboratory analytical reports are included in Enclosure D.

CLOSURE REQUEST

A total of approximately 400 cubic yards of impacted soil were excavated from the Site. Based on the laboratory analytical results of all final excavation confirmation and delineation soil samples, WPX is requesting closure of Incident Number NRM2026856616. Upon approval of this closure request, WPX will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Sincerely,

WSP USA

A handwritten signature in black ink, appearing to read 'Joseph S. Hernandez'.

Joseph S. Hernandez
Associate Consultant, Geologist

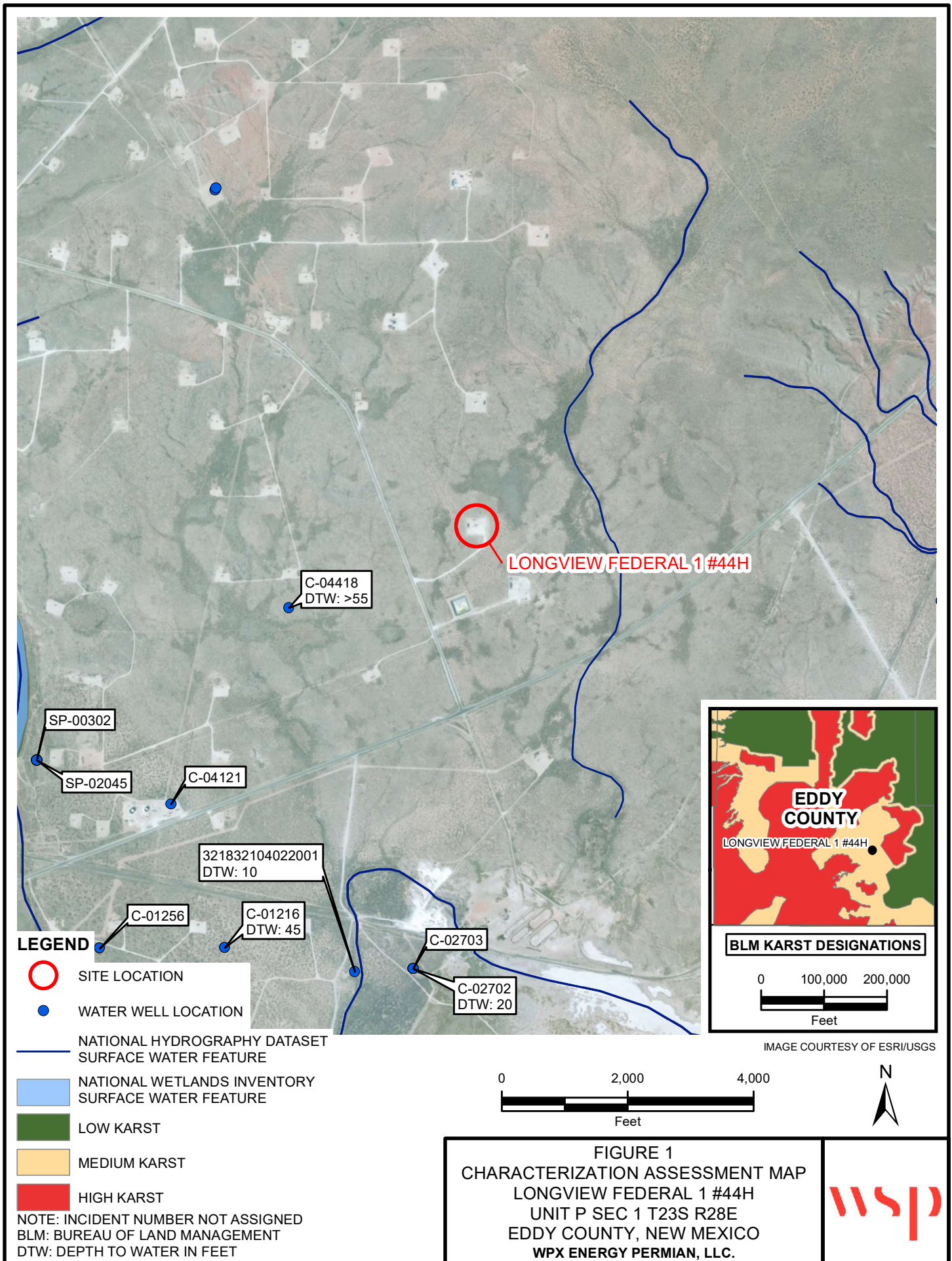
A handwritten signature in black ink, appearing to read 'Ashley L. Ager'.

Ashley L. Ager, M.S., P.G.
Managing Director, Geologist

cc: Lynda Laumbach, WPX
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD
Bureau of Land Management

Encl.

FIGURES



P:\WPX\GIS\MXD\034820036_LONGVIEW FEDERAL 1-44H\034820036_FIG01_SL_RECEPTOR_2020.mxd

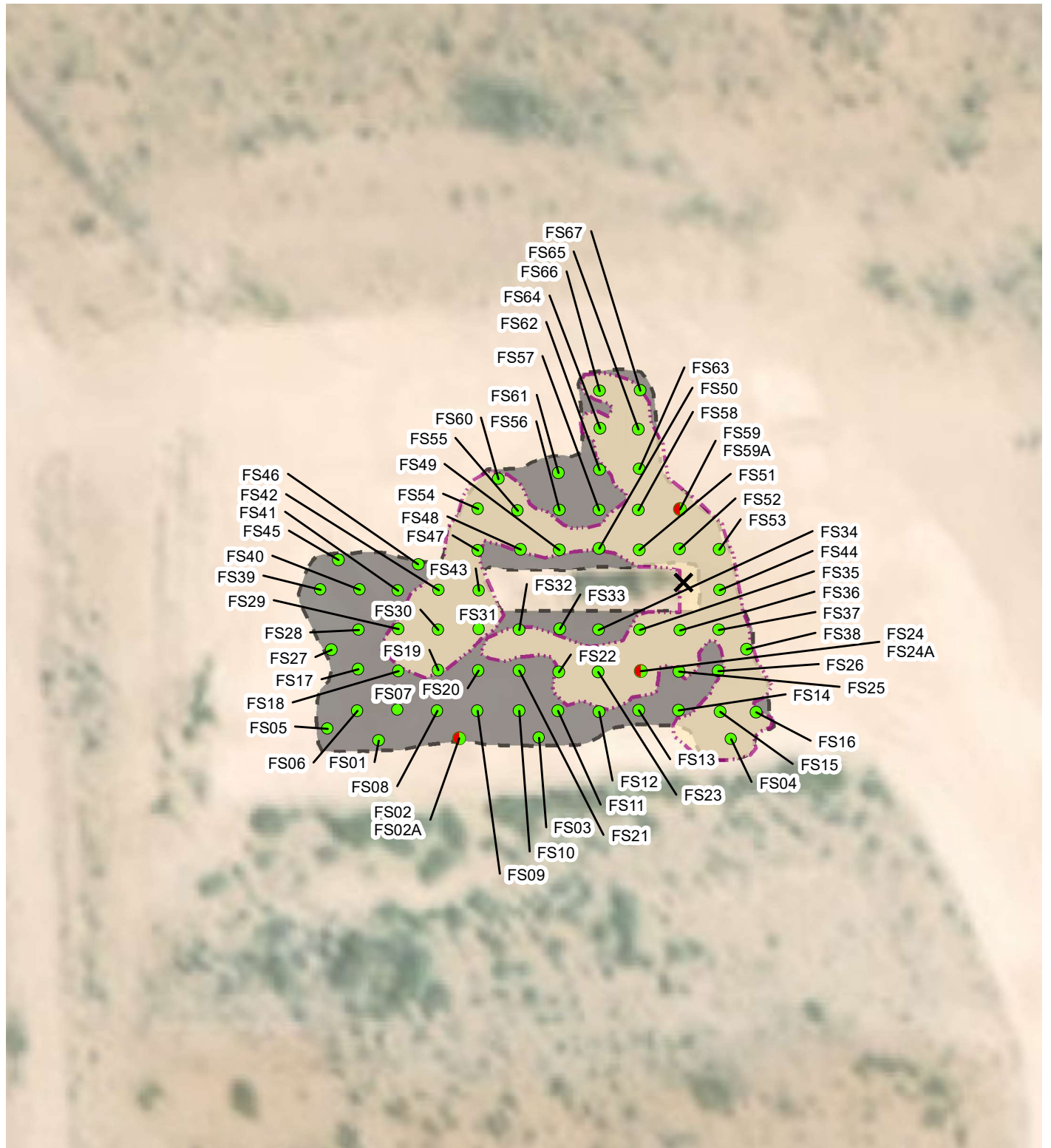
**LEGEND**

IMAGE COURTESY OF ESRI



RELEASE LOCATION

FLOOR SAMPLE WITH CONCENTRATIONS PREVIOUSLY
EXCEEDING APPLICABLE CLOSURE CRITERIAFLOOR SAMPLE IN COMPLIANCE
WITH APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT



EXCAVATION EXTENT

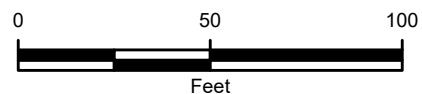
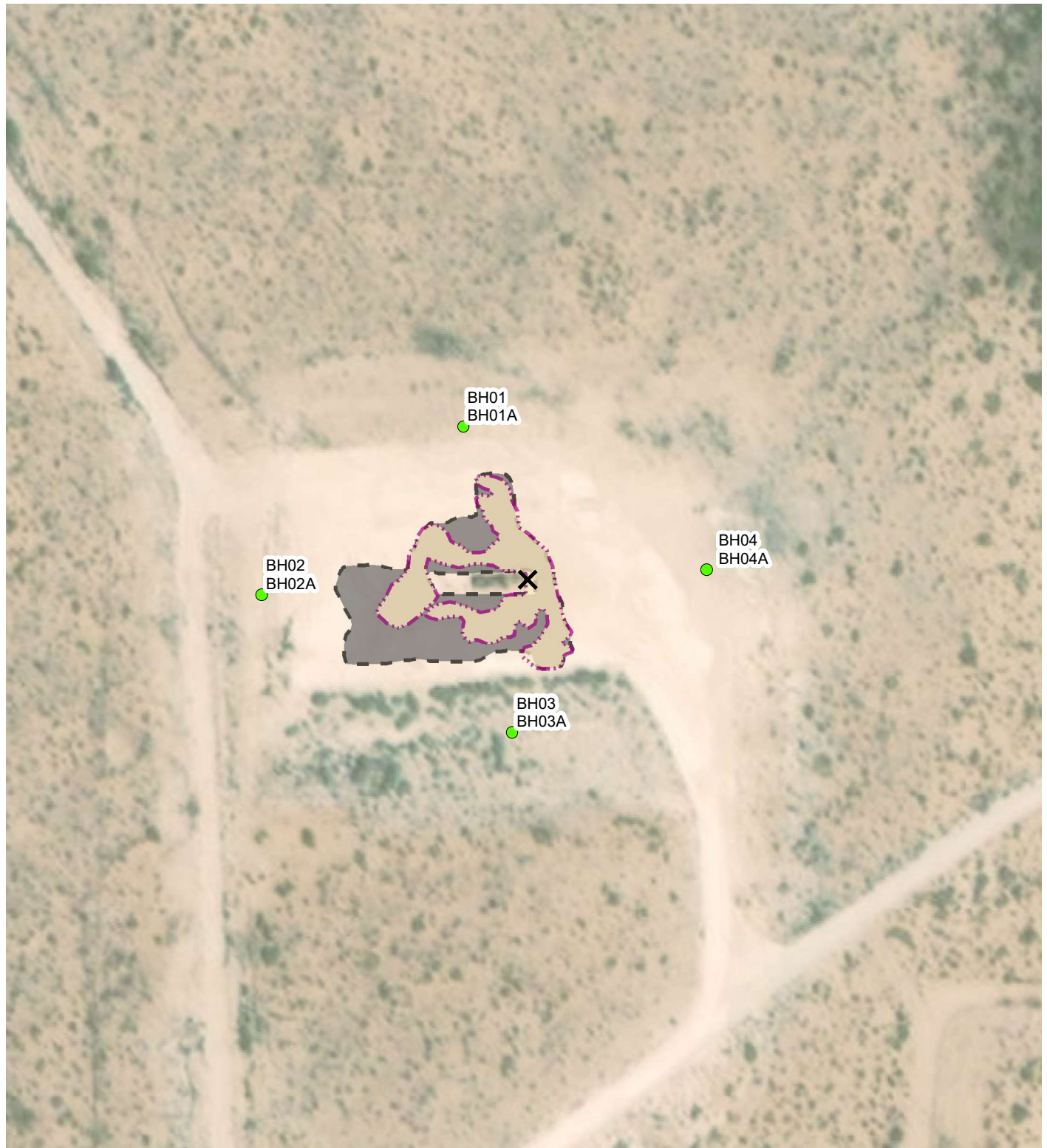


FIGURE 2
EXCAVATION SOIL SAMPLE LOCATIONS
 LONGVIEW FEDERAL 1 #44H
 UNIT P SEC 1 T23S R28E
 EDDY COUNTY, NEW MEXICO
 WPX ENERGY PERMIAN, LLC.



P:\WPX\GIS\MXD\034820036_LONGVIEW FEDERAL 1-44H\034820036_FIG02_EXCAVATION_2020.mxd

**LEGEND**

RELEASE LOCATION

DELINEATION SOIL SAMPLE IN COMPLIANCE
WITH APPLICABLE CLOSURE CRITERIA

EXCAVATION EXTENT



RELEASE EXTENT

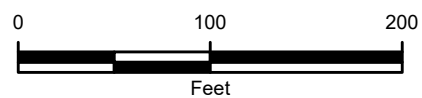


FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
 LONGVIEW FEDERAL 1 #44H
 UNIT P SEC 1 T23S R28E
 EDDY COUNTY, NEW MEXICO
 WPX ENERGY PERMIAN, LLC.



TABLES

Table 1

Longview Federal 1 #44
Incident Number NRM2026856616
Eddy County, New Mexico
WPX Energy Permian, LLC.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Samples										
BH01	10/19/2020	0.3 - 0.5	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	330
BH01A	10/19/2020	0.75 - 1	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	369
BH02	10/19/2020	0.3 - 0.5	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	25.1
BH02A	10/19/2020	0.75 - 1	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	52.1
BH03	10/19/2020	0.3 - 0.5	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	21.9
BH03A	10/19/2020	0.75 - 1	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	11.7
BH04	10/19/2020	0.3 - 0.5	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	214
BH04A	10/19/2020	0.75 - 1	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	223
Excavation Floor Samples										
FS01	09/24/2020	0.15	<0.00202	<0.00202	<50.1	60.2	<50.1	60.2	60.2	3,750
FS02	09/24/2020	0.15	<0.00199	<0.00199	<49.9	100	<49.9	100	100	10,200
FS02A	10/19/2020	0.3	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,420
FS03	09/24/2020	0.15	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	361
FS04	09/24/2020	0.2 - 1.5	<0.00199	<0.00199	<49.9	169	<49.9	169	169	3,000
FS05	09/24/2020	0.15	<0.00201	<0.00201	<49.9	59.2	<49.9	59.2	59.2	6,270
FS06	09/24/2020	0.15	<0.00199	<0.00199	<50.1	205	<50.1	205	205	4,940
FS07	09/24/2020	0.15	<0.00198	<0.00198	<50.0	123	<50.0	123	123	4,220
FS08	09/24/2020	0.15	<0.00200	<0.00200	<50.3	66.0	<50.3	66.0	66.0	2,160
FS09	09/24/2020	0.15	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	457
FS10	09/24/2020	0.15	<0.00200	<0.00200	<50.1	370	<50.1	370	370	2,400
FS11	09/24/2020	0.15	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	4,970
FS12	09/29/2020	0.5	<0.00199	<0.00199	<50.3	<50.3	<50.3	<50.3	<50.3	7,780

Table 1

Longview Federal 1 #44
Incident Number NRM2026856616
Eddy County, New Mexico
WPX Energy Permian, LLC.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1,000	2,500	10,000
FS13	09/29/2020	0.5	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	1,260
FS14	09/29/2020	0.5	<0.00199	<0.00199	<49.8	51.6	<49.8	51.6	51.6	1,780
FS15	09/24/2020	0.15 - 0.5	<0.00200	<0.00200	<50.1	211	<50.1	211	211	3,720
FS16	09/29/2020	0.3 - 0.5	<0.00200	<0.00200	<50.0	56.1	<50.0	56.1	56.1	1,950
FS17	09/24/2020	0.15	<0.00201	<0.00201	<50.0	158	<50.0	158	158	5,840
FS18	09/24/2020	0.15 - 1.5	<0.00202	<0.00202	<49.9	219	<49.9	219	219	6,970
FS19	09/24/2020	0.15 - 1.5	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	8,480
FS20	09/24/2020	0.15	<0.00198	<0.00198	<50.1	67.5	<50.1	67.5	67.5	4,560
FS21	09/29/2020	0.5	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	1,620
FS22	09/29/2020	0.5	<0.00199	<0.00199	<50.0	83.6	<50.0	83.6	83.6	6,650
FS23	09/29/2020	0.5	<0.00202	<0.00202	<49.9	55.7	<49.9	55.7	55.7	8,480
FS24	09/29/2020	0.5	<0.00200	<0.00200	<49.9	145	<49.9	145	145	10,600
FS24A	10/19/2020	0.5 - 1	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	552
FS25	09/29/2020	0.5	<0.00198	0.0146	<49.9	100	<49.9	100	100	3,230
FS26	09/29/2020	0.5	<0.00198	<0.00198	<50.1	102	<50.1	102	102	3,430
FS27	09/24/2020	0.15	<0.00199	<0.00199	<49.9	61.9	<49.9	61.9	61.9	582
FS28	09/24/2020	0.15	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	2,700
FS29	09/29/2020	0.5	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	8,310
FS30	09/28/2020	0.5	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	1,910
FS31	09/28/2020	0.5 - 1	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	2,960
FS32	09/25/2020	1	<0.00202	<0.00202	<50.3	74.7	<50.3	74.7	74.7	3,840
FS33	09/25/2020	1	<0.00198	<0.00198	<50.2	549	164	549	713	3,930
FS34	09/25/2020	1	<0.00198	<0.00198	<50.2	344	122	344	466	4,430
FS35	09/25/2020	1 - 2.5	<0.00200	<0.00200	<50.2	258	93.2	258	351	6,910

Table 1

Longview Federal 1 #44
Incident Number NRM2026856616
Eddy County, New Mexico
WPX Energy Permian, LLC.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1,000	2,500	10,000
FS36	09/25/2020	1	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	5,730
FS37	09/25/2020	1	<0.00198	<0.00198	<50.2	607	237	607	844	3,160
FS38	09/29/2020	0.3	<0.00201	<0.00201	<50.2	75.0	<50.2	75.0	75.0	7,120
FS39	09/24/2020	0.15	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	240
FS40	09/24/2020	0.15 - 0.2	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	337
FS41	09/24/2020	0.15	<0.00199	<0.00199	<49.9	72.0	<49.9	72.0	72.0	1,170
FS42	09/24/2020	0.15 - 0.5	<0.00201	<0.00201	<50.2	51.0	<50.2	51.0	51.0	4,060
FS43	09/28/2020	0.5 - 1	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	1,620
FS44	09/28/2020	0.5 - 1	<0.00198	<0.00198	<50.3	<50.3	<50.3	<50.3	<50.3	5,910
FS45	09/28/2020	0.15	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	485
FS46	09/24/2020	0.15 - 0.5	<0.00201	<0.00201	<49.9	110	<49.9	110	110	2,210
FS47	09/28/2020	0.5	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	2,150
FS48	09/28/2020	0.5 - 1	<0.00200	<0.00200	<50.1	99.2	<50.1	99.2	99.2	2,730
FS49	09/28/2020	0.5 - 1	<0.00198	<0.00198	<49.8	144	<49.8	144	144	3,900
FS50	09/28/2020	0.5 - 1	<0.00202	<0.00202	<49.9	591	232	591	823	8,380
FS51	09/28/2020	0.5 - 1	<0.00200	<0.00200	<49.8	107	<49.8	107	107	9,440
FS52	09/28/2020	0.5 - 1.5	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	8,810
FS53	09/28/2020	1 - 2	<0.00199	<0.00199	<49.8	98.6	<49.8	98.6	98.6	4,130
FS54	09/24/2020	0.15 - 0.5	<0.00199	<0.00199	<50.0	503	53.4	503	556	6,040
FS55	09/28/2020	0.5	<0.00198	<0.00198	<50.3	<50.3	<50.3	<50.3	<50.3	4,440
FS56	09/28/2020	0.5	<0.00198	<0.00198	<50.1	57.1	<50.1	57.1	57.1	2,130
FS57	09/28/2020	0.5	<0.00202	<0.00202	<49.9	185	<49.9	185	185	3,380
FS58	09/28/2020	0.5	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	8,000
FS59	09/28/2020	0.5 - 1	<0.00198	<0.00198	<50.1	88.2	<50.1	88.2	88.2	10,300

Table 1

Longview Federal 1 #44
Incident Number NRM2026856616
Eddy County, New Mexico
WPX Energy Permian, LLC.

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	50	NE	NE	NE	1,000	2,500	10,000
FS59A	10/19/2020	1	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	3,420
FS60	09/28/2020	0.5	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	3,930
FS61	09/28/2020	0.2 - 0.5	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	4,270
FS62	09/28/2020	0.5	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,390
FS63	09/28/2020	0.5 - 1	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	5,250
FS64	09/28/2020	0.5	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	3,240
FS65	09/28/2020	0.5	<0.00200	<0.00200	<49.9	130	<49.9	130	130	5,900
FS66	09/28/2020	0.5	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	4,170
FS67	09/28/2020	0.5	<0.00201	<0.00201	<49.8	94.2	<49.8	94.2	94.2	1,140

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

ENCLOSURE A – WELL RECORD AND LOG



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

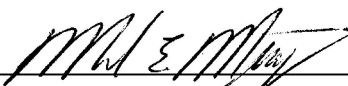
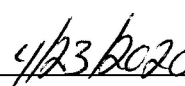
NEW MEXICO

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1		WELL TAG ID NO. Well Tag ID Not Issued		OSE FILE NO(S). C 04418			
	WELL OWNER NAME(S) WPX Energy				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 5315 Buena Vista Drive				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES 32		MINUTES 19	SECONDS 29.6	N		
		LONGITUDE -104		02	33.7	W		
* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE C-12-23S-28E; Longview Federal 12-15								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1789		NAME OF LICENSED DRILLER Mark Mumby			NAME OF WELL DRILLING COMPANY HRL Compliance Solutions		
	DRILLING STARTED 3/31/2020		DRILLING ENDED 3/31/2020		DEPTH OF COMPLETED WELL (FT) 55	BORE HOLE DEPTH (FT) 55	DEPTH WATER FIRST ENCOUNTERED (FT) Water was not encountered	
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) Water was not present in the well after 48-hours		
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	45	6.25	Blank PVC	Flush Thread	2.0	0.154	0.010
	45	55	6.25	Factory Slotted PVC Screen	Flush Thread	2.0	0.154	0.010
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				No Annular Seal Material or Gravel Pack	None			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-4418	POD NO. 1	TRN NO. 670356
LOCATION 214 T23S R28E Sec12	WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES <i>(attach supplemental sheets to fully describe all units)</i>	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)	
	FROM	TO					
	0	55	55	Silt/Sand with Interbedded caliche	Y ✓ N	0.00	
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY: Water Not Encountered					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
		MISCELLANEOUS INFORMATION: Well was drilled to determine depth to groundwater in the area. The well was a temporary well. The well was monitored for the presence of water 48-hours after drilling was complete; water was not encountered in the well at this time. The well was subsequently abandoned on 4/3/2020.					
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Kalvin (Kelly) Padilla							
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.  SIGNATURE OF DRILLER / PRINT SIGNEE NAME Mark Mumby  DATE						

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	C-4418	POD NO.	1
LOCATION		WELL TAG ID NO	PAGE 2 OF 2
2-14 T235 R38E S.12		11A	

John R. D Antonio, Jr., P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 670356
File Nbr: C 04418
Well File Nbr: C 04418 POD1

Jun. 09, 2020

LYNDA LAUMBACH
WPX ENERGY
5315 BUENA VISTA DRIVE
CARLSBAD, NM 88220

Greetings:

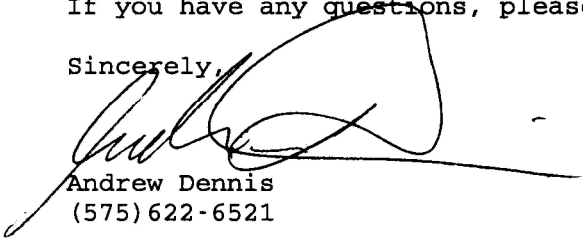
The above numbered permit was issued in your name on 03/26/2020.

The Well Record was received in this office on 05/26/2020, stating that it had been completed on 03/31/2020, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/26/2021.

If you have any questions, please feel free to contact us.

Sincerely,


Andrew Dennis
(575) 622-6521

drywell

ENCLOSURE B – PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC.	Longview Federal 1 #44 Eddy County, New Mexico	034820036
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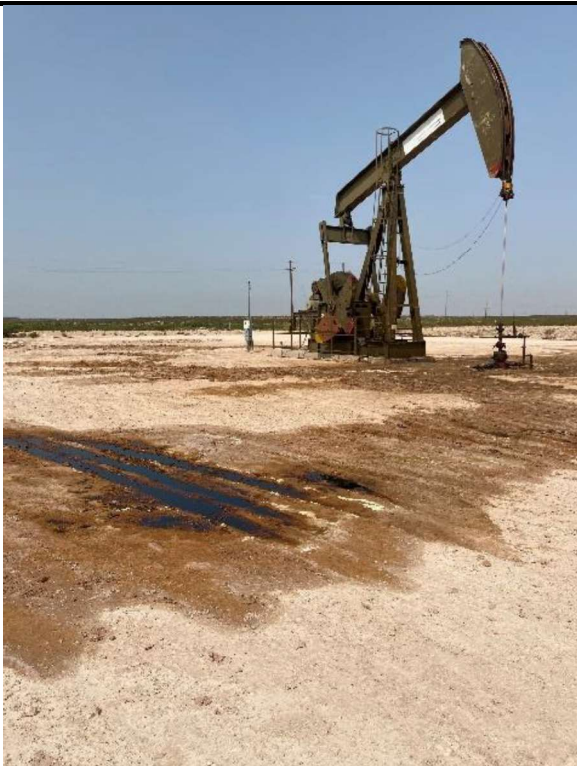
Photo No.	Date	
1	September 24, 2020 - October 19, 2020	
Northwestern view of the release area.		 A photograph showing a pumpjack in a desert landscape. The pumpjack is a large, dark-colored metal structure with a long, curved arm. The ground is dry and sandy, with some patches of brownish soil. The sky is clear and blue.

Photo No.	Date	
2	September 24, 2020 - October 19, 2020	
Southwestern view of the release area.		 A photograph showing a pumpjack in a desert landscape, viewed from a different angle than the first photo. The pumpjack is a large, dark-colored metal structure with a long, curved arm. The ground is dry and sandy, with some patches of brownish soil. The sky is clear and blue.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC.	Longview Federal 1 #44 Eddy County, New Mexico	034820036
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Photo No.	Date	
3	September 24, 2020 - October 19, 2020	
Northeastern view of the release area		 A photograph showing a northeastern view of an oil field. In the foreground, there is a dirt road and a large, dark, circular object, possibly a wellhead or a large wheel. In the background, a white pickup truck is parked on a dirt area. The sky is clear and blue.

Photo No.	Date	
4	September 24, 2020 - October 19, 2020	
Western view of the release area.		 A photograph showing a western view of the release area. The foreground is a dirt road. In the background, there are several utility poles and a clear blue sky.

**PHOTOGRAPHIC LOG**

WPX Energy Permian, LLC.	Longview Federal 1 #44 Eddy County, New Mexico	034820036
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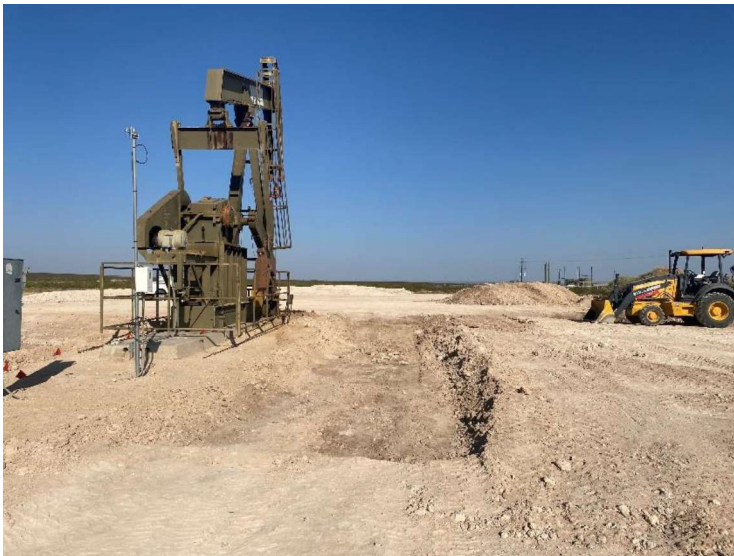
Photo No.	Date	
5	September 24, 2020 - October 19, 2020	
Eastern view of the excavation area south of the pump jack.		 A photograph showing an excavation site. In the foreground, there is a large, deep, rectangular pit dug into the dry, sandy ground. To the left of the pit, a large, complex piece of industrial machinery, likely a pump jack, stands on a raised platform. In the background, a yellow front loader is parked on a dirt road. The sky is clear and blue.

Photo No.	Date	
6	September 24, 2020 - October 19, 2020	
Northeastern view of the continued excavation areas north and west of the pump jack.		 A photograph showing a different view of the excavation site. The pump jack is visible on the right side of the frame. The ground is uneven and sandy, with several smaller pits and mounds of earth. A person is standing in the distance, providing a sense of scale. The sky is clear and blue.



PHOTOGRAPHIC LOG		
WPX Energy Permian, LLC.	Longview Federal 1 #44 Eddy County, New Mexico	034820036

Photo No.	Date	
7	September 24, 2020 - October 19, 2020	
Eastern view of the continued excavation area south of the pump jack.		

Photo No.	Date	
8	September 24, 2020 - October 19, 2020	
Eastern view of the final northern excavation area.		

ENCLOSURE C – LITHOLOGIC/SOIL SAMPLING LOGS

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH Name: BH01		Date: 10/19/2020				
		Site Name: Longview Federal 1 #44						
		Incident Number: NRM2026856616						
		LTE Job Number: 034820036						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.32875846N, 104.03319905W Location mapped with Collector GPS			Field Screening: HACH Low Range Chloride Test Strips		Logged By: Anna Byers Method: Hand Auger Hole Diameter: 2.5 inches Total Depth: 1 foot bgs			
Comments: Chloride field screening was conducted with a 1:4 dilution factor of soil to distilled water. Reported values do not include correction factor. Vapor was not field screened with a PID.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
Dry	364	no odor	No	BH01	0.3-0.5	0	SP-SM	Brown-tan, poorly-graded sand (m.) with silt and gravel, no plasticity and trace organics
Dry	364	no odor	No	BH01A	0.75-1	1	SP-SM	
						Total Depth		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH Name: BH02		Date: 10/19/2020				
		Site Name: Longview Federal 1 #44						
		Incident Number: NRM2026856616						
		LTE Job Number: 034820036						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.32843481N, 104.03366014W Location mapped with Collector GPS			Field Screening: HACH Low Range Chloride Test Strips		Logged By: Anna Byers Method: Hand Auger Hole Diameter: 2.5 inches Total Depth: 1 foot bgs			
Comments: Chloride testing was conducted with a 1:4 dilution factor of soil to distilled water. Reported values do not include correction factor. Vapor was not field screened with a PID. (BDL - Below Detection Limit of HACH Low Range Chloride Test Strips: < 120 ppm)								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
Dry	BDL	no odor	No	BH02	0.3-0.5	0	SP-SM	Brown-tan, poorly-graded sand (m.) with silt and gravel, no plasticity and trace organics
Dry	BDL	no odor	No	BH02A	0.75-1	1	SP-SM	
						Total Depth		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH Name: BH03		Date: 10/19/2020				
		Site Name: Longview Federal 1 #44						
		Incident Number: NRM2026856616						
		LTE Job Number: 034820036						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.32816645N, 104.033089W Location mapped with Collector GPS			Field Screening: HACH Low Range Chloride Test Strips		Logged By: Anna Byers Method: Hand Auger Hole Diameter: 2.5 inches Total Depth: 1 foot bgs			
Comments: Chloride testing was conducted with a 1:4 dilution factor of soil to distilled water. Reported values do not include correction factor. Vapor was not field screened with a PID. (BDL - Below Detection Limit of HACH Low Range Chloride Test Strips: < 120 ppm)								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
Dry	BDL	no odor	No	BH03	0.3-0.5	0	SP-SM	Brown-tan, poorly-graded sand (m.) with silt and gravel, no plasticity and trace organics
Dry	BDL	no odor	No	BH03A	0.75-1	1	SP-SM	
						Total Depth		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220		BH Name: BH04		Date: 10/19/2020				
		Site Name: Longview Federal 1 #44						
		Incident Number: NRM2026856616						
		LTE Job Number: 034820036						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long: 32.3284870N, 104.0326280W Location mapped with Collector GPS			Field Screening: HACH Low Range Chloride Test Strips		Logged By: Anna Byers Method: Hand Auger Hole Diameter: 2.5 inches Total Depth: 1 foot bgs			
Comments: Chloride testing was conducted with a 1:4 dilution factor of soil to distilled water. Reported values do not include correction factor. Vapor was not field screened with a PID.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
Dry	224	no odor	No	BH04	0.3-0.5	0	SP-SM	Brown-tan, poorly-graded sand (m.) with silt and gravel, no plasticity and trace organics
Dry	224	no odor	No	BH04A	0.75-1	1	SP-SM	
						Total Depth		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		

ENCLOSURE D – LABORATORY ANALYTICAL REPORTS

Certificate of Analysis Summary 675514



WSP USA, Dallas, TX

Project Name: Longview Federal 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Mon 10.19.2020 12:53**Report Date:** 11.03.2020 13:32**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	675514-001	675514-002	675514-003	675514-004	675514-005	675514-006
	<i>Field Id:</i>	BH01	BH01 A	BH02	BH02 A	BH03	BH03 A
	<i>Depth:</i>	0.3-0.5 ft	0.75-1 ft	0.3-0.5 ft	0.75-1 ft	0.3-0.5 ft	0.75-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	10.19.2020 09:28	10.19.2020 09:30	10.19.2020 09:40	10.19.2020 09:45	10.19.2020 10:10	10.19.2020 10:12
BTEX by EPA 8021B	<i>Extracted:</i>	10.19.2020 15:37	10.19.2020 15:37	10.19.2020 15:37	10.19.2020 15:37	10.19.2020 15:37	10.19.2020 15:37
	<i>Analyzed:</i>	10.19.2020 15:57	10.19.2020 16:19	10.19.2020 16:42	10.19.2020 17:04	10.19.2020 17:27	10.19.2020 18:45
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00402 0.00402	<0.00404 0.00404	<0.00399 0.00399	<0.00400 0.00400	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.19.2020 15:09	10.19.2020 15:09	10.19.2020 15:09	10.19.2020 15:09	10.19.2020 15:09	10.19.2020 15:09
	<i>Analyzed:</i>	10.19.2020 16:16	10.19.2020 16:24	10.19.2020 16:48	10.19.2020 16:56	10.19.2020 17:04	10.19.2020 17:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		330 9.92	369 10.0	25.1 10.1	52.1 9.90	21.9 10.0	11.7 9.94
TPH by SW8015 Mod	<i>Extracted:</i>	10.19.2020 16:20	10.19.2020 16:20	10.19.2020 16:20	10.19.2020 14:00	10.19.2020 14:00	10.19.2020 14:00
	<i>Analyzed:</i>	10.19.2020 16:52	10.19.2020 17:12	10.19.2020 17:54	10.19.2020 15:50	10.19.2020 16:10	10.19.2020 16:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<49.9 49.9	<50.0 50.0	<50.2 50.2	<49.8 49.8	<49.9 49.9
Diesel Range Organics (DRO)		<50.2 50.2	<49.9 49.9	<50.0 50.0	<50.2 50.2	<49.8 49.8	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<49.9 49.9	<50.0 50.0	<50.2 50.2	<49.8 49.8	<49.9 49.9
Total TPH		<50.2 50.2	<49.9 49.9	<50.0 50.0	<50.2 50.2	<49.8 49.8	<49.9 49.9

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 675514

WSP USA, Dallas, TX

Project Name: Longview Federal 1-44

Project Id: 034820036
 Contact: Joseph Hernandez
 Project Location: Eddy County

Date Received in Lab: Mon 10.19.2020 12:53
 Report Date: 11.03.2020 13:32
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	675514-007	675514-008				
	Field Id:	BH04	BH04 A				
	Depth:	0.3-0.5 ft	0.75-1 ft				
	Matrix:	SOIL	SOIL				
	Sampled:	10.19.2020 10:15	10.19.2020 10:20				
BTEX by EPA 8021B	Extracted:	10.19.2020 15:37	10.19.2020 15:37				
	Analyzed:	10.19.2020 19:07	10.19.2020 19:30				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00201 0.00201	<0.00200 0.00200				
Toluene		<0.00201 0.00201	<0.00200 0.00200				
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200				
m,p-Xylenes		<0.00402 0.00402	<0.00401 0.00401				
o-Xylene		<0.00201 0.00201	<0.00200 0.00200				
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200				
Total BTEX		<0.00201 0.00201	<0.00200 0.00200				
Inorganic Anions by EPA 300	Extracted:	10.19.2020 15:09	10.19.2020 15:09				
	Analyzed:	10.19.2020 17:30	10.19.2020 17:36				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		214 9.98	223 9.94				
TPH by SW8015 Mod	Extracted:	10.19.2020 14:00	10.19.2020 14:00				
	Analyzed:	10.19.2020 16:52	10.19.2020 17:12				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.0 50.0				
Diesel Range Organics (DRO)		<50.2 50.2	<50.0 50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.0 50.0				
Total TPH		<50.2 50.2	<50.0 50.0				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico





Environment Testing
Xenco

Analytical Report 675514

for

WSP USA

Project Manager: Joseph Hernandez

Longview Federal 1-44

034820036

11.03.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.03.2020

Project Manager: **Joseph Hernandez**

WSP USA

2777 N. Stemmons Freeway, Suite 1600

Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **675514**

Longview Federal 1-44

Project Address: Eddy County

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 675514. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 675514 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

**Sample Cross Reference 675514****WSP USA, Dallas, TX**

Longview Federal 1-44

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	10.19.2020 09:28	0.3 - 0.5 ft	675514-001
BH01 A	S	10.19.2020 09:30	0.75 - 1 ft	675514-002
BH02	S	10.19.2020 09:40	0.3 - 0.5 ft	675514-003
BH02 A	S	10.19.2020 09:45	0.75 - 1 ft	675514-004
BH03	S	10.19.2020 10:10	0.3 - 0.5 ft	675514-005
BH03 A	S	10.19.2020 10:12	0.75 - 1 ft	675514-006
BH04	S	10.19.2020 10:15	0.3 - 0.5 ft	675514-007
BH04 A	S	10.19.2020 10:20	0.75 - 1 ft	675514-008



CASE NARRATIVE

Client Name: WSP USA

Project Name: Longview Federal 1-44

Project ID: 034820036
Work Order Number(s): 675514

Report Date: 11.03.2020
Date Received: 10.19.2020

Sample receipt non conformances and comments:

V1.001 revision - Change client from LTE to WSP

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH01**
Lab Sample Id: 675514-001

Matrix: Soil
Date Collected: 10.19.2020 09:28

Date Received: 10.19.2020 12:53
Sample Depth: 0.3 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:09

% Moisture:
Basis: Wet Weight

Seq Number: 3140075

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	330	9.92	mg/kg	10.19.2020 16:16		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.19.2020 16:20

% Moisture:
Basis: Wet Weight

Seq Number: 3140028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.19.2020 16:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.19.2020 16:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.19.2020 16:52	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.19.2020 16:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	10.19.2020 16:52	
o-Terphenyl	84-15-1	94	%	70-135	10.19.2020 16:52	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH01**
Lab Sample Id: 675514-001

Matrix: Soil
Date Collected: 10.19.2020 09:28

Date Received: 10.19.2020 12:53
Sample Depth: 0.3 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:37

% Moisture:
Basis: Wet Weight

Seq Number: 3140036

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.19.2020 15:57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.19.2020 15:57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.19.2020 15:57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.19.2020 15:57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.19.2020 15:57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.19.2020 15:57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.19.2020 15:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	80	%	70-130	10.19.2020 15:57	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.19.2020 15:57	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH01 A**
Lab Sample Id: 675514-002

Matrix: Soil
Date Collected: 10.19.2020 09:30

Date Received: 10.19.2020 12:53
Sample Depth: 0.75 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:09

% Moisture:
Basis: Wet Weight

Seq Number: 3140075

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	369	10.0	mg/kg	10.19.2020 16:24		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.19.2020 16:20

% Moisture:
Basis: Wet Weight

Seq Number: 3140028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.19.2020 17:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.19.2020 17:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.19.2020 17:12	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.19.2020 17:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	10.19.2020 17:12	
o-Terphenyl	84-15-1	99	%	70-135	10.19.2020 17:12	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH01 A**
Lab Sample Id: 675514-002

Matrix: Soil
Date Collected: 10.19.2020 09:30

Date Received: 10.19.2020 12:53
Sample Depth: 0.75 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:37

% Moisture:
Basis: Wet Weight

Seq Number: 3140036

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.19.2020 16:19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.19.2020 16:19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.19.2020 16:19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.19.2020 16:19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.19.2020 16:19	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.19.2020 16:19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.19.2020 16:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	10.19.2020 16:19	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.19.2020 16:19	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH02**
Lab Sample Id: 675514-003

Matrix: Soil
Date Collected: 10.19.2020 09:40

Date Received: 10.19.2020 12:53
Sample Depth: 0.3 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:09

% Moisture:
Basis: Wet Weight

Seq Number: 3140075

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.1	10.1	mg/kg	10.19.2020 16:48		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.19.2020 16:20

% Moisture:
Basis: Wet Weight

Seq Number: 3140028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.19.2020 17:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.19.2020 17:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.19.2020 17:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.19.2020 17:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	10.19.2020 17:54	
o-Terphenyl	84-15-1	91	%	70-135	10.19.2020 17:54	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH02**
Lab Sample Id: 675514-003

Matrix: Soil
Date Collected: 10.19.2020 09:40

Date Received: 10.19.2020 12:53
Sample Depth: 0.3 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:37

% Moisture:
Basis: Wet Weight

Seq Number: 3140036

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.19.2020 16:42	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.19.2020 16:42	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.19.2020 16:42	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.19.2020 16:42	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.19.2020 16:42	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.19.2020 16:42	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.19.2020 16:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.19.2020 16:42		
4-Bromofluorobenzene	460-00-4	88	%	70-130	10.19.2020 16:42		



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH02 A**
Lab Sample Id: 675514-004

Matrix: Soil
Date Collected: 10.19.2020 09:45

Date Received: 10.19.2020 12:53
Sample Depth: 0.75 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:09

% Moisture:
Basis: Wet Weight

Seq Number: 3140075

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.1	9.90	mg/kg	10.19.2020 16:56		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.19.2020 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3140041

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.19.2020 15:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.19.2020 15:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.19.2020 15:50	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.19.2020 15:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	10.19.2020 15:50	
o-Terphenyl	84-15-1	110	%	70-135	10.19.2020 15:50	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH02 A**
Lab Sample Id: 675514-004

Matrix: Soil
Date Collected: 10.19.2020 09:45

Date Received: 10.19.2020 12:53
Sample Depth: 0.75 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:37

% Moisture:
Basis: Wet Weight

Seq Number: 3140036

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.19.2020 17:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.19.2020 17:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.19.2020 17:04	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.19.2020 17:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.19.2020 17:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.19.2020 17:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.19.2020 17:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.19.2020 17:04	
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.19.2020 17:04	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH03**
Lab Sample Id: 675514-005

Matrix: Soil
Date Collected: 10.19.2020 10:10

Date Received: 10.19.2020 12:53
Sample Depth: 0.3 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:09

% Moisture:
Basis: Wet Weight

Seq Number: 3140075

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.9	10.0	mg/kg	10.19.2020 17:04		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.19.2020 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3140041

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.19.2020 16:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.19.2020 16:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.19.2020 16:10	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.19.2020 16:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.19.2020 16:10	
o-Terphenyl	84-15-1	110	%	70-135	10.19.2020 16:10	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH03**
Lab Sample Id: 675514-005

Matrix: Soil
Date Collected: 10.19.2020 10:10

Date Received: 10.19.2020 12:53
Sample Depth: 0.3 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:37

% Moisture:
Basis: Wet Weight

Seq Number: 3140036

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.19.2020 17:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.19.2020 17:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.19.2020 17:27	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.19.2020 17:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.19.2020 17:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.19.2020 17:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.19.2020 17:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.19.2020 17:27	
4-Bromofluorobenzene	460-00-4	86	%	70-130	10.19.2020 17:27	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH03 A**
Lab Sample Id: 675514-006

Matrix: Soil
Date Collected: 10.19.2020 10:12

Date Received: 10.19.2020 12:53
Sample Depth: 0.75 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:09

% Moisture:
Basis: Wet Weight

Seq Number: 3140075

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.7	9.94	mg/kg	10.19.2020 17:12		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.19.2020 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3140041

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.19.2020 16:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.19.2020 16:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.19.2020 16:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.19.2020 16:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.19.2020 16:31	
o-Terphenyl	84-15-1	107	%	70-135	10.19.2020 16:31	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH03 A**
Lab Sample Id: 675514-006

Matrix: Soil
Date Collected: 10.19.2020 10:12

Date Received: 10.19.2020 12:53
Sample Depth: 0.75 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:37

% Moisture:
Basis: Wet Weight

Seq Number: 3140036

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.19.2020 18:45	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.19.2020 18:45	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.19.2020 18:45	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.19.2020 18:45	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.19.2020 18:45	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.19.2020 18:45	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.19.2020 18:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	83	%	70-130	10.19.2020 18:45	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.19.2020 18:45	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH04**
Lab Sample Id: 675514-007

Matrix: Soil
Date Collected: 10.19.2020 10:15

Date Received: 10.19.2020 12:53
Sample Depth: 0.3 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:09

% Moisture:
Basis: Wet Weight

Seq Number: 3140075

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	214	9.98	mg/kg	10.19.2020 17:30		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.19.2020 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3140041

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.19.2020 16:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.19.2020 16:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.19.2020 16:52	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.19.2020 16:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.19.2020 16:52	
o-Terphenyl	84-15-1	110	%	70-135	10.19.2020 16:52	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH04**
Lab Sample Id: 675514-007

Matrix: Soil
Date Collected: 10.19.2020 10:15

Date Received: 10.19.2020 12:53
Sample Depth: 0.3 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:37

% Moisture:
Basis: Wet Weight

Seq Number: 3140036

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.19.2020 19:07	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.19.2020 19:07	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.19.2020 19:07	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.19.2020 19:07	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.19.2020 19:07	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.19.2020 19:07	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.19.2020 19:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.19.2020 19:07	
4-Bromofluorobenzene	460-00-4	87	%	70-130	10.19.2020 19:07	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH04 A**
Lab Sample Id: 675514-008

Matrix: Soil
Date Collected: 10.19.2020 10:20

Date Received: 10.19.2020 12:53
Sample Depth: 0.75 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:09

% Moisture:
Basis: Wet Weight

Seq Number: 3140075

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	223	9.94	mg/kg	10.19.2020 17:36		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.19.2020 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3140041

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.19.2020 17:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.19.2020 17:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.19.2020 17:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.19.2020 17:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	10.19.2020 17:12	
o-Terphenyl	84-15-1	106	%	70-135	10.19.2020 17:12	



Certificate of Analytical Results 675514

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **BH04 A**
Lab Sample Id: 675514-008

Matrix: Soil
Date Collected: 10.19.2020 10:20

Date Received: 10.19.2020 12:53
Sample Depth: 0.75 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:37

% Moisture:
Basis: Wet Weight

Seq Number: 3140036

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.19.2020 19:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.19.2020 19:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.19.2020 19:30	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.19.2020 19:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.19.2020 19:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.19.2020 19:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.19.2020 19:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	84	%	70-130	10.19.2020 19:30		
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.19.2020 19:30		

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



WSP USA

Longview Federal 1-44

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3140075

Matrix: Solid

Prep Method: E300P

Date Prep: 10.19.2020

MB Sample Id: 7713552-1-BLK

LCS Sample Id: 7713552-1-BKS

LCSD Sample Id: 7713552-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	253	101	251	100	90-110	1	20	mg/kg	10.19.2020 15:20	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3140075

Matrix: Soil

Prep Method: E300P

Date Prep: 10.19.2020

Parent Sample Id: 675512-001

MS Sample Id: 675512-001 S

MSD Sample Id: 675512-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2420	198	2630	106	2600	90	90-110	1	20	mg/kg	10.19.2020 15:44	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3140075

Matrix: Soil

Prep Method: E300P

Date Prep: 10.19.2020

Parent Sample Id: 675514-006

MS Sample Id: 675514-006 S

MSD Sample Id: 675514-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.7	200	209	99	210	100	90-110	0	20	mg/kg	10.19.2020 17:18	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3140028

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.19.2020

MB Sample Id: 7713509-1-BLK

LCS Sample Id: 7713509-1-BKS

LCSD Sample Id: 7713509-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	996	100	975	98	70-135	2	35	mg/kg	10.19.2020 12:11	
Diesel Range Organics (DRO)	<50.0	1000	1150	115	1120	112	70-135	3	35	mg/kg	10.19.2020 12:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		119		119		70-135	%	10.19.2020 12:11
o-Terphenyl	96		109		108		70-135	%	10.19.2020 12:11

Analytical Method: TPH by SW8015 Mod

Seq Number: 3140041

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.19.2020

MB Sample Id: 7713508-1-BLK

LCS Sample Id: 7713508-1-BKS

LCSD Sample Id: 7713508-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1040	104	1050	105	70-135	1	35	mg/kg	10.19.2020 12:11	
Diesel Range Organics (DRO)	<50.0	1000	1190	119	1200	120	70-135	1	35	mg/kg	10.19.2020 12:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		125		121		70-135	%	10.19.2020 12:11
o-Terphenyl	102		117		121		70-135	%	10.19.2020 12:11

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WSP USA
Longview Federal 1-44

Analytical Method: TPH by SW8015 Mod

Seq Number: 3140028

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.19.2020

MB Sample Id: 7713509-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

**MB
Result**

<50.0

Units

mg/kg

**Analysis
Date**

10.19.2020 12:51

Flag**Analytical Method:** TPH by SW8015 Mod

Seq Number: 3140041

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.19.2020

MB Sample Id: 7713508-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

**MB
Result**

<50.0

Units

mg/kg

**Analysis
Date**

10.19.2020 12:51

Flag**Analytical Method:** TPH by SW8015 Mod

Seq Number: 3140028

Matrix: Soil

Prep Method: SW8015P

Date Prep: 10.19.2020

Parent Sample Id: 675472-001

MS Sample Id: 675472-001 S

MSD Sample Id: 675472-001 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

**Parent
Result**

<50.1

**Spike
Amount**

1000

**MS
Result**

999

**MS
%Rec**

100

**MSD
Result**

947

**MSD
%Rec**

95

Limits

70-135

%RPD

5

**RPD
Limit**

35

Units

mg/kg

**Analysis
Date**

10.19.2020 13:32

Flag

Diesel Range Organics (DRO)

<50.1

1000

1180

118

1060

106

70-135

11

35

mg/kg

10.19.2020 13:32

Surrogate

1-Chlorooctane

**MS
%Rec**

118

**MS
Flag****MSD
%Rec**

114

**MSD
Flag****Limits**

70-135

Units

%

**Analysis
Date**

10.19.2020 13:32

o-Terphenyl

108

102

70-135

%

10.19.2020 13:32

Analytical Method: TPH by SW8015 Mod

Seq Number: 3140041

Matrix: Soil

Prep Method: SW8015P

Date Prep: 10.19.2020

Parent Sample Id: 675472-002

MS Sample Id: 675472-002 S

MSD Sample Id: 675472-002 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

**Parent
Result**

<50.1

**Spike
Amount**

1000

**MS
Result**

1090

**MS
%Rec**

109

**MSD
Result**

1050

**MSD
%Rec**

105

Limits

70-135

%RPD

4

**RPD
Limit**

35

Units

mg/kg

**Analysis
Date**

10.19.2020 13:32

Flag

Diesel Range Organics (DRO)

<50.1

1000

1100

110

1190

119

70-135

8

35

mg/kg

10.19.2020 13:32

Surrogate

1-Chlorooctane

**MS
%Rec**

127

**MS
Flag****MSD
%Rec**

123

**MSD
Flag****Limits**

70-135

Units

%

**Analysis
Date**

10.19.2020 13:32

o-Terphenyl

120

120

70-135

%

10.19.2020 13:32

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WSP USA
Longview Federal 1-44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3140036

MB Sample Id: 7713513-1-BLK

Matrix: Solid

LCS Sample Id: 7713513-1-BKS

Prep Method: SW5035A

Date Prep: 10.19.2020

LCSD Sample Id: 7713513-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.107	107	70-130	2	35	mg/kg	10.19.2020 11:06	
Toluene	<0.00200	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	10.19.2020 11:06	
Ethylbenzene	<0.00200	0.100	0.0951	95	0.0966	97	71-129	2	35	mg/kg	10.19.2020 11:06	
m,p-Xylenes	<0.00400	0.200	0.191	96	0.195	98	70-135	2	35	mg/kg	10.19.2020 11:06	
o-Xylene	<0.00200	0.100	0.0930	93	0.0947	95	71-133	2	35	mg/kg	10.19.2020 11:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		98		99		70-130	%	10.19.2020 11:06
4-Bromofluorobenzene	86		87		85		70-130	%	10.19.2020 11:06

Analytical Method: BTEX by EPA 8021B

Seq Number: 3140036

Parent Sample Id: 675472-001

Matrix: Soil

MS Sample Id: 675472-001 S

Prep Method: SW5035A

Date Prep: 10.19.2020

MSD Sample Id: 675472-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.127	126	0.128	128	70-130	1	35	mg/kg	10.19.2020 12:14	
Toluene	<0.00201	0.101	0.131	130	0.123	123	70-130	6	35	mg/kg	10.19.2020 12:14	
Ethylbenzene	<0.00201	0.101	0.122	121	0.118	118	71-129	3	35	mg/kg	10.19.2020 12:14	
m,p-Xylenes	<0.00402	0.201	0.247	123	0.242	121	70-135	2	35	mg/kg	10.19.2020 12:14	
o-Xylene	<0.00201	0.101	0.119	118	0.114	114	71-133	4	35	mg/kg	10.19.2020 12:14	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		95		70-130	%	10.19.2020 12:14
4-Bromofluorobenzene	86		82		70-130	%	10.19.2020 12:14

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 820-2000 West Palm Beach, FL (561) 689-6701

Chain of Custody

Work Order No: 1675514

Project Manager:	Joseph Hernandez	Bill to: (if different)	Lynda Launbach
Company Name:	LT Environmental	Company Name:	Wpx Energy
Address:	3300 North A Street, Bldg 1	Address:	5315 Buena Vista Dr
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88228
Phone:	(281) 772-2329	Email:	jhernandez@ltemv.com + lalunbach@ltemv.com

Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting Level:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: ☐

Project Name:	Longview Federal 1-44	Turn Around	☒	Pres. Code	
Project Number:	031820030	Routine	☒		
Project Location:	Eddy County	Rush:			
Sampler's Name:	Anna Byers	Due Date:			
PO #:	spill date 9/3/20	Quote #:			

SAMPLE RECEIPT				Thermometer ID		Correction Factor:		Total Containers:	
Temperature (°C):	16/1.4	Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No	TMM007		-0.2	
Received Intact:	☒ Yes ☐ No								
Cooler Custody Seals:	☒ Yes ☐ No								
Sample Custody Seals:	☒ Yes ☐ No								

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
BHT01		S	10/9/20	0928	0.3-0.5'	1	Chloride (EPA 309.0)	MeOH: Me	
BHT01A				0930	0.75-1'	1	BTEX (EPA 802.B)	None: NO	
BHT02				0940	0.3-0.5'	1	TPH (EPA 8015 Mod)	HNO3: HN	
BHT02A				0945	0.75-1'	1		H2SO4: H2	
BHT03				1010	0.3-0.5'	1		HCL: HL	
BHT03A				1012	0.75-1'	1		NaOH: Na	
BHT04				1015	0.3-0.5'	1		Zn Acetate+ NaOH: Zn	
BHT04A				1020	0.75-1'	1		TAT starts the day received by the lab, if received by 4:00pm	

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Pb Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers		10/9/20 12:53			

Certificate of Analysis Summary 675512

WSP USA, Dallas, TX

Project Name: Longview Federal 1-44

Project Id: 034820036
 Contact: Joseph Hernandez
 Project Location: Eddy County

Date Received in Lab: Mon 10.19.2020 12:53
 Report Date: 11.03.2020 13:31
 Project Manager: Jessica Kramer

<i>Analysis Requested</i>	Lab Id: 675512-001 Field Id: FS02 A Depth: 0.3- ft Matrix: SOIL Sampled: 10.19.2020 08:15	Lab Id: 675512-002 Field Id: FS24 A Depth: 0.5-1 ft Matrix: SOIL Sampled: 10.19.2020 08:40	Lab Id: 675512-003 Field Id: FS59 A Depth: 1- ft Matrix: SOIL Sampled: 10.19.2020 09:05			
BTEX by EPA 8021B	Extracted: 10.19.2020 14:35 Analyzed: 10.19.2020 15:16 Units/RL: mg/kg RL	Extracted: 10.19.2020 14:35 Analyzed: 10.19.2020 15:38 Units/RL: mg/kg RL	Extracted: 10.19.2020 14:35 Analyzed: 10.19.2020 16:01 Units/RL: mg/kg RL			
Benzene	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200			
Toluene	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200			
Ethylbenzene	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200			
m,p-Xylenes	<0.00400 0.00400	<0.00398 0.00398	<0.00399 0.00399			
o-Xylene	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200			
Total Xylenes	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200			
Total BTEX	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200			
Inorganic Anions by EPA 300	Extracted: 10.19.2020 15:09 Analyzed: 10.19.2020 15:36 Units/RL: mg/kg RL	Extracted: 10.19.2020 15:09 Analyzed: 10.19.2020 16:00 Units/RL: mg/kg RL	Extracted: 10.19.2020 15:09 Analyzed: 10.19.2020 16:08 Units/RL: mg/kg RL			
Chloride	2420 50.0	552 9.96	3420 50.2			
TPH by SW8015 Mod	Extracted: 10.19.2020 14:30 Analyzed: 10.19.2020 15:50 Units/RL: mg/kg RL	Extracted: 10.19.2020 14:30 Analyzed: 10.19.2020 16:10 Units/RL: mg/kg RL	Extracted: 10.19.2020 14:30 Analyzed: 10.19.2020 16:31 Units/RL: mg/kg RL			
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<50.1 50.1	<50.1 50.1			
Diesel Range Organics (DRO)	<50.0 50.0	<50.1 50.1	<50.1 50.1			
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<50.1 50.1	<50.1 50.1			
Total TPH	<50.0 50.0	<50.1 50.1	<50.1 50.1			

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico





Environment Testing
Xenco

Analytical Report 675512

for

WSP USA

Project Manager: Joseph Hernandez

Longview Federal 1-44

034820036

11.03.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.03.2020

Project Manager: **Joseph Hernandez**

WSP USA

2777 N. Stemmons Freeway, Suite 1600

Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **675512**

Longview Federal 1-44

Project Address: Eddy County

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 675512. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 675512 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

**Sample Cross Reference 675512****WSP USA, Dallas, TX**

Longview Federal 1-44

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS02 A	S	10.19.2020 08:15	0.3 ft	675512-001
FS24 A	S	10.19.2020 08:40	0.5 - 1 ft	675512-002
FS59 A	S	10.19.2020 09:05	1 ft	675512-003



CASE NARRATIVE

Client Name: WSP USA

Project Name: Longview Federal 1-44

Project ID: 034820036
Work Order Number(s): 675512

Report Date: 11.03.2020
Date Received: 10.19.2020

Sample receipt non conformances and comments:

V1.001 revision - Change client from LTE to WSP

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 675512

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **FS02 A**
Lab Sample Id: 675512-001

Matrix: Soil
Date Collected: 10.19.2020 08:15

Date Received: 10.19.2020 12:53
Sample Depth: 0.3 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:09

% Moisture:
Basis: Wet Weight

Seq Number: 3140075

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2420	50.0	mg/kg	10.19.2020 15:36		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.19.2020 14:30

% Moisture:
Basis: Wet Weight

Seq Number: 3140028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.19.2020 15:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.19.2020 15:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.19.2020 15:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.19.2020 15:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	10.19.2020 15:50	
o-Terphenyl	84-15-1	91	%	70-135	10.19.2020 15:50	



Certificate of Analytical Results 675512

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **FS02 A**
Lab Sample Id: 675512-001

Matrix: Soil
Date Collected: 10.19.2020 08:15

Date Received: 10.19.2020 12:53
Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 14:35

% Moisture:
Basis: Wet Weight

Seq Number: 3140034

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.19.2020 15:16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.19.2020 15:16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.19.2020 15:16	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.19.2020 15:16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.19.2020 15:16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.19.2020 15:16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.19.2020 15:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.19.2020 15:16	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.19.2020 15:16	



Certificate of Analytical Results 675512

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **FS24 A**
Lab Sample Id: 675512-002

Matrix: Soil
Date Collected: 10.19.2020 08:40

Date Received: 10.19.2020 12:53
Sample Depth: 0.5 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:09

% Moisture:
Basis: Wet Weight

Seq Number: 3140075

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	552	9.96	mg/kg	10.19.2020 16:00		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.19.2020 14:30

% Moisture:
Basis: Wet Weight

Seq Number: 3140028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.19.2020 16:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.19.2020 16:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.19.2020 16:10	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.19.2020 16:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	10.19.2020 16:10	
o-Terphenyl	84-15-1	92	%	70-135	10.19.2020 16:10	



Certificate of Analytical Results 675512

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **FS24 A**
Lab Sample Id: 675512-002

Matrix: Soil
Date Collected: 10.19.2020 08:40

Date Received: 10.19.2020 12:53
Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 14:35

% Moisture:
Basis: Wet Weight

Seq Number: 3140034

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.19.2020 15:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.19.2020 15:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.19.2020 15:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.19.2020 15:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.19.2020 15:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.19.2020 15:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.19.2020 15:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.19.2020 15:38	
4-Bromofluorobenzene	460-00-4	113	%	70-130	10.19.2020 15:38	



Certificate of Analytical Results 675512

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **FS59 A**
Lab Sample Id: 675512-003

Matrix: Soil
Date Collected: 10.19.2020 09:05

Date Received: 10.19.2020 12:53
Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 15:09

% Moisture:
Basis: Wet Weight

Seq Number: 3140075

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3420	50.2	mg/kg	10.19.2020 16:08		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.19.2020 14:30

% Moisture:
Basis: Wet Weight

Seq Number: 3140028

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.19.2020 16:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.19.2020 16:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.19.2020 16:31	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.19.2020 16:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	10.19.2020 16:31	
o-Terphenyl	84-15-1	92	%	70-135	10.19.2020 16:31	



Certificate of Analytical Results 675512

WSP USA, Dallas, TX

Longview Federal 1-44

Sample Id: **FS59 A**
Lab Sample Id: 675512-003

Matrix: Soil
Date Collected: 10.19.2020 09:05

Date Received: 10.19.2020 12:53
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.19.2020 14:35

% Moisture:
Basis: Wet Weight

Seq Number: 3140034

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.19.2020 16:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.19.2020 16:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.19.2020 16:01	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.19.2020 16:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.19.2020 16:01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.19.2020 16:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.19.2020 16:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	10.19.2020 16:01	
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.19.2020 16:01	

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



WSP USA

Longview Federal 1-44

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3140075

Matrix: Solid

Prep Method: E300P

Date Prep: 10.19.2020

MB Sample Id: 7713552-1-BLK

LCS Sample Id: 7713552-1-BKS

LCSD Sample Id: 7713552-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	253	101	251	100	90-110	1	20	mg/kg	10.19.2020 15:20	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3140075

Matrix: Soil

Prep Method: E300P

Date Prep: 10.19.2020

Parent Sample Id: 675512-001

MS Sample Id: 675512-001 S

MSD Sample Id: 675512-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2420	198	2630	106	2600	90	90-110	1	20	mg/kg	10.19.2020 15:44	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3140075

Matrix: Soil

Prep Method: E300P

Date Prep: 10.19.2020

Parent Sample Id: 675514-006

MS Sample Id: 675514-006 S

MSD Sample Id: 675514-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.7	200	209	99	210	100	90-110	0	20	mg/kg	10.19.2020 17:18	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3140028

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.19.2020

MB Sample Id: 7713509-1-BLK

LCS Sample Id: 7713509-1-BKS

LCSD Sample Id: 7713509-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	996	100	975	98	70-135	2	35	mg/kg	10.19.2020 12:11	
Diesel Range Organics (DRO)	<50.0	1000	1150	115	1120	112	70-135	3	35	mg/kg	10.19.2020 12:11	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date	Flag		
1-Chlorooctane	97		119		119		70-135	%	10.19.2020 12:11			
o-Terphenyl	96		109		108		70-135	%	10.19.2020 12:11			

Analytical Method: TPH by SW8015 Mod

Seq Number: 3140028

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.19.2020

MB Sample Id: 7713509-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.19.2020 12:51	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WSP USA

Longview Federal 1-44

Analytical Method: TPH by SW8015 Mod

Seq Number: 3140028

Parent Sample Id: 675472-001

Matrix: Soil

MS Sample Id: 675472-001 S

Prep Method: SW8015P

Date Prep: 10.19.2020

MSD Sample Id: 675472-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	999	100	947	95	70-135	5	35	mg/kg	10.19.2020 13:32	
Diesel Range Organics (DRO)	<50.1	1000	1180	118	1060	106	70-135	11	35	mg/kg	10.19.2020 13:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		114		70-135	%	10.19.2020 13:32
o-Terphenyl	108		102		70-135	%	10.19.2020 13:32

Analytical Method: BTEX by EPA 8021B

Seq Number: 3140034

MB Sample Id: 7713512-1-BLK

Matrix: Solid

LCS Sample Id: 7713512-1-BKS

Prep Method: SW5035A

Date Prep: 10.19.2020

LCSD Sample Id: 7713512-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0974	97	0.0931	93	70-130	5	35	mg/kg	10.19.2020 10:56	
Toluene	<0.00200	0.100	0.0929	93	0.0902	90	70-130	3	35	mg/kg	10.19.2020 10:56	
Ethylbenzene	<0.00200	0.100	0.0971	97	0.0941	94	71-129	3	35	mg/kg	10.19.2020 10:56	
m,p-Xylenes	<0.00400	0.200	0.201	101	0.191	96	70-135	5	35	mg/kg	10.19.2020 10:56	
o-Xylene	<0.00200	0.100	0.0985	99	0.0937	94	71-133	5	35	mg/kg	10.19.2020 10:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		96		97		70-130	%	10.19.2020 10:56
4-Bromofluorobenzene	107		109		107		70-130	%	10.19.2020 10:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3140034

Parent Sample Id: 675472-005

Matrix: Soil

MS Sample Id: 675472-005 S

Prep Method: SW5035A

Date Prep: 10.19.2020

MSD Sample Id: 675472-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.105	105	0.112	113	70-130	6	35	mg/kg	10.19.2020 11:41	
Toluene	<0.00200	0.0998	0.0992	99	0.109	110	70-130	9	35	mg/kg	10.19.2020 11:41	
Ethylbenzene	<0.00200	0.0998	0.104	104	0.110	111	71-129	6	35	mg/kg	10.19.2020 11:41	
m,p-Xylenes	<0.00399	0.200	0.212	106	0.224	113	70-135	6	35	mg/kg	10.19.2020 11:41	
o-Xylene	<0.00200	0.0998	0.103	103	0.111	112	71-133	7	35	mg/kg	10.19.2020 11:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	10.19.2020 11:41
4-Bromofluorobenzene	112		112		70-130	%	10.19.2020 11:41

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Chain of Custody

Work Order No: 675512

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Casabad, NM (432) 704-5440
 Phoenix, AZ (480) 365-3900 Atlanta, GA (770) 449-9800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Page 1 of 1

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	Lynda Leunbach
Company Name:	LT Environmental	Company Name:	WPX Energy
Address:	3388 North A St, Bldg 1	Address:	5315 Buena Vista Dr
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88228
Phone:	(281) 782-2329	Email:	jhernandez@ltemv.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level: I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:

Project Name:	Langview Federal 1-441	Turn Around	☒
Project Number:	03-182203b	Route	☒
Project Location:	Eddy County	Rush:	
Sampler's Name:	Anna Byers	Due Date:	
PO #:	5011 date 9/13/20	Quote #:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	1.6/1.4			Thermometer ID	TNM007	
Received Intact:	Yes	No				
Cooler Custody Seals:	Yes	No			Correction Factor: -0.2	
Sample Custody Seals:	Yes	No			Total Containers: 3	

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes
FS02A		S	10/19/20	0815	0.3'	1	Chloride (EPA 320.0)	Mech: Me
FS24A		S		0840	0.5-1'	1	BTEX (EPA 8021B)	None: NO
FS59A		S		0905	1'	1	TPH (EPA 8015 Mod)	HNO3: HN
								H2SO4: H2
								HCL: HL
								NaOH: Na
								Zn Acetate + NaOH: Zn
								TAT starts the day received by the lab, if received by 4:00pm
								Sample Comments

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Anna Byers	[Signature]	10/19/20 19:53			

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10.19.2020 12.53.00 PM

Work Order #: 675512

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.4	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6 *Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 10.19.2020

Checklist reviewed by:



Jessica Kramer

Date: 10.19.2020

Certificate of Analysis Summary 674009



WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15**Report Date:** 11.19.2020 10:06**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674009-001	674009-002	674009-003	674009-004	674009-005	674009-006
	<i>Field Id:</i>	FS01	FS02	FS03	FS04	FS05	FS06
	<i>Depth:</i>	0.15- ft	0.15- ft	0.15- ft	0.2-1.5 ft	0.15- ft	0.15- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.24.2020 10:20	09.24.2020 10:35	09.24.2020 10:45	09.24.2020 15:15	09.24.2020 11:00	09.24.2020 10:53
BTEX by EPA 8021B	<i>Extracted:</i>	09.30.2020 17:40	09.30.2020 17:40	09.30.2020 17:40	09.30.2020 17:40	09.30.2020 17:40	09.30.2020 17:40
	<i>Analyzed:</i>	10.01.2020 03:28	10.01.2020 03:51	10.01.2020 04:13	10.01.2020 05:31	10.01.2020 05:53	10.01.2020 06:16
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199
Toluene		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		<0.00403 0.00403	<0.00398 0.00398	<0.00402 0.00402	<0.00398 0.00398	<0.00402 0.00402	<0.00398 0.00398
o-Xylene		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199
Total BTEX		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01
	<i>Analyzed:</i>	10.01.2020 15:32	10.01.2020 15:49	10.01.2020 15:54	10.01.2020 16:00	10.01.2020 16:05	10.01.2020 16:22
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3750 49.5	10200 199	361 9.92	3000 50.5	6270 49.6	4940 49.7
TPH by SW8015 Mod	<i>Extracted:</i>	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00
	<i>Analyzed:</i>	10.01.2020 12:07	10.01.2020 12:07	10.01.2020 14:27	10.01.2020 20:57	10.01.2020 21:18	10.01.2020 15:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<49.9 49.9	<50.2 50.2	<49.9 49.9	<49.9 49.9	<50.1 50.1
Diesel Range Organics (DRO)		60.2 50.1	100 49.9	<50.2 50.2	169 49.9	59.2 49.9	205 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<49.9 49.9	<50.2 50.2	<49.9 49.9	<49.9 49.9	<50.1 50.1
Total TPH		60.2 50.1	100 49.9	<50.2 50.2	169 49.9	59.2 49.9	205 50.1

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 674009



WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15
Report Date: 11.19.2020 10:06
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674009-007	674009-008	674009-009	674009-010	674009-011	674009-012
	<i>Field Id:</i>	FS07	FS08	FS09	FS10	FS11	FS12
	<i>Depth:</i>	0.15- ft	0.15- ft	0.15- ft	0.15- ft	0.15- ft	0.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.24.2020 11:10	09.24.2020 12:05	09.24.2020 12:10	09.24.2020 12:15	09.24.2020 12:20	09.29.2020 14:28
BTEX by EPA 8021B	<i>Extracted:</i>	09.30.2020 17:40	09.30.2020 17:40	09.30.2020 17:40	09.30.2020 17:40	09.30.2020 17:40	09.30.2020 17:40
	<i>Analyzed:</i>	10.01.2020 06:38	10.01.2020 07:01	10.01.2020 07:23	10.01.2020 07:45	10.01.2020 08:08	10.01.2020 08:30
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Toluene		<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes		<0.00395 0.00395	<0.00399 0.00399	<0.00402 0.00402	<0.00399 0.00399	<0.00398 0.00398	<0.00398 0.00398
o-Xylene		<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total BTEX		<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01
	<i>Analyzed:</i>	10.01.2020 16:27	10.01.2020 16:33	10.01.2020 16:38	10.01.2020 16:44	10.01.2020 16:49	10.01.2020 17:06
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4220 50.1	2160 50.2	457 9.92	2400 49.9	4970 49.5	7780 50.4
TPH by SW8015 Mod	<i>Extracted:</i>	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00
	<i>Analyzed:</i>	10.01.2020 16:51	10.01.2020 17:13	10.01.2020 17:32	10.01.2020 17:54	10.01.2020 18:14	10.01.2020 18:34
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.3 50.3	<50.3 50.3	<50.1 50.1	<50.0 50.0	<50.3 50.3
Diesel Range Organics (DRO)		123 50.0	66.0 50.3	<50.3 50.3	370 50.1	<50.0 50.0	<50.3 50.3
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.3 50.3	<50.3 50.3	<50.1 50.1	<50.0 50.0	<50.3 50.3
Total TPH		123 50.0	66.0 50.3	<50.3 50.3	370 50.1	<50.0 50.0	<50.3 50.3

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Certificate of Analysis Summary 674009



WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15
Report Date: 11.19.2020 10:06
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674009-013	674009-014	674009-015	674009-016	674009-017	674009-018
	<i>Field Id:</i>	FS13	FS14	FS15	FS16	FS17	FS18
	<i>Depth:</i>	0.5- ft	0.5- ft	0.15-0.5 ft	0.3-0.5 ft	0.15- ft	0.15-1.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.29.2020 14:32	09.29.2020 14:36	09.24.2020 15:25	09.29.2020 15:00	09.24.2020 12:30	09.24.2020 12:40
BTEX by EPA 8021B	<i>Extracted:</i>	09.30.2020 17:40	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00
	<i>Analyzed:</i>	10.01.2020 08:53	10.01.2020 13:44	10.01.2020 15:36	10.01.2020 15:58	10.01.2020 16:21	10.01.2020 16:43
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
m,p-Xylenes		<0.00400 0.00400	<0.00398 0.00398	<0.00401 0.00401	<0.00399 0.00399	<0.00402 0.00402	<0.00403 0.00403
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:01
	<i>Analyzed:</i>	10.01.2020 17:11	10.01.2020 17:27	10.01.2020 17:33	10.01.2020 17:38	10.01.2020 17:44	10.01.2020 17:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1260 50.3	1780 50.1	3720 49.7	1950 49.8	5840 49.9	6970 49.6
TPH by SW8015 Mod	<i>Extracted:</i>	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00
	<i>Analyzed:</i>	10.01.2020 18:54	10.01.2020 19:14	10.01.2020 19:35	10.01.2020 19:55	10.01.2020 15:07	10.01.2020 15:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<49.8 49.8	<50.1 50.1	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.1 50.1	51.6 49.8	211 50.1	56.1 50.0	158 50.0	219 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<49.8 49.8	<50.1 50.1	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<50.1 50.1	51.6 49.8	211 50.1	56.1 50.0	158 50.0	219 49.9

BRL - Below Reporting Limit

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Certificate of Analysis Summary 674009



WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15
Report Date: 11.19.2020 10:06
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674009-019	674009-020	674009-021	674009-022	674009-023	674009-024
	<i>Field Id:</i>	FS19	FS20	FS21	FS22	FS23	FS24
	<i>Depth:</i>	0.15-1.5 ft	0.15- ft	0.5- ft	0.5- ft	0.5- ft	0.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.24.2020 13:05	09.24.2020 13:10	09.29.2020 13:12	09.29.2020 13:18	09.29.2020 13:20	09.29.2020 13:23
BTEX by EPA 8021B	<i>Extracted:</i>	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00
	<i>Analyzed:</i>	10.01.2020 17:06	10.01.2020 18:23	10.01.2020 18:46	10.01.2020 19:08	10.01.2020 19:31	10.01.2020 19:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00404 0.00404	<0.00397 0.00397	<0.00398 0.00398	<0.00398 0.00398	<0.00403 0.00403	<0.00401 0.00401
o-Xylene		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Total BTEX		<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.01.2020 14:01	10.01.2020 14:01	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05
	<i>Analyzed:</i>	10.01.2020 17:55	10.01.2020 18:00	10.01.2020 18:33	10.01.2020 18:50	10.01.2020 18:55	10.01.2020 19:01
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		8480 198	4560 50.5	1620 9.90	6650 50.4	8480 198	10600 200
TPH by SW8015 Mod	<i>Extracted:</i>	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00
	<i>Analyzed:</i>	10.01.2020 15:47	10.01.2020 16:51	10.01.2020 17:13	10.01.2020 17:32	10.01.2020 17:54	10.01.2020 18:14
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.1 50.1	<50.1 50.1	<50.0 50.0	<49.9 49.9	<49.9 49.9
Diesel Range Organics (DRO)		<49.8 49.8	67.5 50.1	<50.1 50.1	83.6 50.0	55.7 49.9	145 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.1 50.1	<50.1 50.1	<50.0 50.0	<49.9 49.9	<49.9 49.9
Total TPH		<49.8 49.8	67.5 50.1	<50.1 50.1	83.6 50.0	55.7 49.9	145 49.9

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Certificate of Analysis Summary 674009



WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15**Report Date:** 11.19.2020 10:06**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674009-025	674009-026	674009-027	674009-028	674009-029	674009-030
	<i>Field Id:</i>	FS25	FS26	FS27	FS28	FS29	FS30
	<i>Depth:</i>	0.5- ft	0.5- ft	0.15- ft	0.15- ft	0.5- ft	0.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.29.2020 13:28	09.29.2020 13:30	09.24.2020 13:30	09.24.2020 13:35	09.29.2020 13:38	09.28.2020 10:57
BTEX by EPA 8021B	<i>Extracted:</i>	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00
	<i>Analyzed:</i>	10.01.2020 20:16	10.01.2020 20:38	10.01.2020 21:01	10.01.2020 21:23	10.01.2020 21:45	10.01.2020 16:24
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00202 0.00202
Toluene		<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00202 0.00202
Ethylbenzene		0.0146 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00202 0.00202
m,p-Xylenes		<0.00397 0.00397	<0.00396 0.00396	<0.00398 0.00398	<0.00404 0.00404	<0.00404 0.00404	<0.00403 0.00403
o-Xylene		<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00202 0.00202
Total Xylenes		<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00202 0.00202
Total BTEX		0.0146 0.00198	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00202 0.00202
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05
	<i>Analyzed:</i>	10.01.2020 19:06	10.01.2020 19:23	10.01.2020 19:28	10.01.2020 19:34	10.01.2020 19:39	10.01.2020 19:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3230 49.8	3430 50.2	582 50.4	2700 50.4	8310 200	1910 49.8
TPH by SW8015 Mod	<i>Extracted:</i>	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 11:00	10.01.2020 17:30
	<i>Analyzed:</i>	10.01.2020 18:34	10.01.2020 18:54	10.01.2020 19:14	10.01.2020 19:35	10.01.2020 19:55	10.02.2020 00:59
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.1 50.1	<49.9 49.9
Diesel Range Organics (DRO)		100 49.9	102 50.1	61.9 49.9	<50.0 50.0	<50.1 50.1	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.1 50.1	<49.9 49.9
Total TPH		100 49.9	102 50.1	61.9 49.9	<50.0 50.0	<50.1 50.1	<49.9 49.9

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Certificate of Analysis Summary 674009



WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15
Report Date: 11.19.2020 10:06
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674009-031	674009-032	674009-033	674009-034	674009-035	674009-036
	<i>Field Id:</i>	FS31	FS32	FS33	FS34	FS35	FS36
	<i>Depth:</i>	0.5-1 ft	1- ft	1- ft	1- ft	1-2.5 ft	1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.28.2020 10:52	09.25.2020 15:48	09.25.2020 15:46	09.25.2020 15:42	09.25.2020 15:40	09.25.2020 12:50
BTEX by EPA 8021B	<i>Extracted:</i>	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00
	<i>Analyzed:</i>	10.01.2020 16:47	10.01.2020 17:09	10.01.2020 18:29	10.01.2020 18:52	10.01.2020 19:14	10.01.2020 19:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00403 0.00403	<0.00397 0.00397	<0.00396 0.00396	<0.00401 0.00401	<0.00401 0.00401
o-Xylene		<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05
	<i>Analyzed:</i>	10.01.2020 19:50	10.01.2020 20:06	10.01.2020 20:12	10.01.2020 20:28	10.01.2020 20:34	10.01.2020 20:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2960 49.8	3840 50.4	3930 50.3	4430 50.1	6910 49.6	5730 50.1
TPH by SW8015 Mod	<i>Extracted:</i>	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30
	<i>Analyzed:</i>	10.02.2020 02:00	10.02.2020 02:20	10.02.2020 02:40	10.02.2020 03:00	10.02.2020 03:21	10.02.2020 03:41
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<50.3 50.3	<50.2 50.2	<50.2 50.2	<50.2 50.2	<50.3 50.3
Diesel Range Organics (DRO)		<50.3 50.3	74.7 50.3	549 50.2	344 50.2	258 50.2	<50.3 50.3
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<50.3 50.3	164 50.2	122 50.2	93.2 50.2	<50.3 50.3
Total TPH		<50.3 50.3	74.7 50.3	713 50.2	466 50.2	351 50.2	<50.3 50.3

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Certificate of Analysis Summary 674009



WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15
Report Date: 11.19.2020 10:06
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674009-037	674009-038	674009-039	674009-040	674009-041	674009-042
	<i>Field Id:</i>	FS37	FS38	FS39	FS40	FS41	FS42
	<i>Depth:</i>	1- ft	0.3- ft	0.15- ft	0.15-0.2 ft	0.15- ft	0.15-0.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.25.2020 12:44	09.29.2020 15:02	09.24.2020 14:30	09.24.2020 14:34	09.24.2020 14:37	09.24.2020 14:40
BTEX by EPA 8021B	<i>Extracted:</i>	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00	10.01.2020 10:00
	<i>Analyzed:</i>	10.01.2020 19:59	10.01.2020 20:22	10.01.2020 20:44	10.01.2020 21:07	10.01.2020 21:29	10.01.2020 21:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
Toluene		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
Ethylbenzene		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
m,p-Xylenes		<0.00396 0.00396	<0.00402 0.00402	<0.00402 0.00402	<0.00399 0.00399	<0.00398 0.00398	<0.00402 0.00402
o-Xylene		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
Total Xylenes		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
Total BTEX		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 14:05	10.01.2020 16:09	10.01.2020 16:09
	<i>Analyzed:</i>	10.01.2020 20:45	10.01.2020 20:50	10.01.2020 20:56	10.01.2020 21:01	10.01.2020 21:45	10.01.2020 22:01
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3160 50.5	7120 50.5	240 9.96	337 10.0	1170 50.3	4060 50.2
TPH by SW8015 Mod	<i>Extracted:</i>	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30
	<i>Analyzed:</i>	10.02.2020 04:01	10.02.2020 04:21	10.02.2020 04:41	10.02.2020 05:22	10.02.2020 05:43	10.02.2020 06:03
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.2 50.2	<50.3 50.3	<50.2 50.2	<49.9 49.9	<50.2 50.2
Diesel Range Organics (DRO)		607 50.2	75.0 50.2	<50.3 50.3	<50.2 50.2	72.0 49.9	51.0 50.2
Motor Oil Range Hydrocarbons (MRO)		237 50.2	<50.2 50.2	<50.3 50.3	<50.2 50.2	<49.9 49.9	<50.2 50.2
Total TPH		844 50.2	75.0 50.2	<50.3 50.3	<50.2 50.2	72.0 49.9	51.0 50.2

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Certificate of Analysis Summary 674009



WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15
Report Date: 11.19.2020 10:06
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674009-043	674009-044	674009-045	674009-046	674009-047	674009-048
	<i>Field Id:</i>	FS43	FS44	FS45	FS46	FS47	FS48
	<i>Depth:</i>	0.5-1 ft	0.50-1 ft	0.15- ft	0.15-0.5 ft	0.5- ft	0.5-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.28.2020 10:54	09.28.2020 13:12	09.24.2020 14:48	09.24.2020 14:50	09.28.2020 10:55	09.28.2020 12:05
BTEX by EPA 8021B	<i>Extracted:</i>	10.01.2020 17:05	10.01.2020 17:05	10.01.2020 15:02	10.01.2020 15:02	10.01.2020 15:02	10.01.2020 15:02
	<i>Analyzed:</i>	10.02.2020 07:37	10.02.2020 08:00	10.02.2020 01:38	10.02.2020 02:01	10.02.2020 02:23	10.02.2020 02:46
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00396 0.00396	<0.00396 0.00396	<0.00402 0.00402	<0.00400 0.00400	<0.00401 0.00401
o-Xylene		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09
	<i>Analyzed:</i>	10.01.2020 22:07	10.01.2020 22:12	10.01.2020 22:18	10.01.2020 22:34	10.01.2020 22:40	10.01.2020 22:45
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1620 49.7	5910 49.6	485 9.92	2210 49.7	2150 49.8	2730 50.1
TPH by SW8015 Mod	<i>Extracted:</i>	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30
	<i>Analyzed:</i>	10.02.2020 06:23	10.02.2020 06:43	10.02.2020 07:02	10.02.2020 07:23	10.02.2020 07:43	10.02.2020 08:04
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.3 50.3	<50.0 50.0	<49.9 49.9	<50.1 50.1	<50.1 50.1
Diesel Range Organics (DRO)		<49.9 49.9	<50.3 50.3	<50.0 50.0	110 49.9	<50.1 50.1	99.2 50.1
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.3 50.3	<50.0 50.0	<49.9 49.9	<50.1 50.1	<50.1 50.1
Total TPH		<49.9 49.9	<50.3 50.3	<50.0 50.0	110 49.9	<50.1 50.1	99.2 50.1

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Certificate of Analysis Summary 674009



WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15
Report Date: 11.19.2020 10:06
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674009-049	674009-050	674009-051	674009-052	674009-053	674009-054
	<i>Field Id:</i>	FS49	FS50	FS51	FS52	FS53	FS54
	<i>Depth:</i>	0.5-1 ft	0.5-1 ft	0.5-1 ft	0.5-1.5 ft	1-2 ft	0.15-0.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.28.2020 12:07	09.28.2020 12:09	09.28.2020 12:10	09.28.2020 12:12	09.28.2020 12:48	09.24.2020 16:55
BTEX by EPA 8021B	<i>Extracted:</i>	10.01.2020 15:02	10.01.2020 15:02	10.01.2020 15:02	10.01.2020 15:02	10.01.2020 15:02	10.01.2020 17:05
	<i>Analyzed:</i>	10.02.2020 03:08	10.02.2020 03:31	10.02.2020 03:53	10.02.2020 04:15	10.02.2020 04:38	10.02.2020 01:28
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Toluene		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes		<0.00397 0.00397	<0.00403 0.00403	<0.00399 0.00399	<0.00400 0.00400	<0.00398 0.00398	<0.00398 0.00398
o-Xylene		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total BTEX		<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09
	<i>Analyzed:</i>	10.01.2020 22:51	10.01.2020 22:56	10.01.2020 23:02	10.01.2020 23:18	10.01.2020 23:23	10.01.2020 23:40
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3900 50.1	8380 198	9440 200	8810 200	4130 49.6	6040 49.7
TPH by SW8015 Mod	<i>Extracted:</i>	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30
	<i>Analyzed:</i>	10.02.2020 00:59	10.02.2020 02:00	10.02.2020 02:20	10.02.2020 02:40	10.02.2020 03:00	10.02.2020 03:21
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<49.9 49.9	<49.8 49.8	<50.2 50.2	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		144 49.8	591 49.9	107 49.8	<50.2 50.2	98.6 49.8	503 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	232 49.9	<49.8 49.8	<50.2 50.2	<49.8 49.8	53.4 50.0
Total TPH		144 49.8	823 49.9	107 49.8	<50.2 50.2	98.6 49.8	556 50.0

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 674009



WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15
Report Date: 11.19.2020 10:06
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674009-055	674009-056	674009-057	674009-058	674009-059	674009-060
	<i>Field Id:</i>	FS55	FS56	FS57	FS58	FS59	FS60
	<i>Depth:</i>	0.5- ft	0.5- ft	0.5- ft	0.5- ft	0.5-1 ft	0.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.28.2020 16:40	09.28.2020 15:27	09.28.2020 15:30	09.28.2020 15:32	09.28.2020 15:35	09.28.2020 15:20
BTEX by EPA 8021B	<i>Extracted:</i>	10.01.2020 17:05	10.01.2020 17:05	10.01.2020 17:05	10.01.2020 17:05	10.01.2020 17:05	10.01.2020 17:05
	<i>Analyzed:</i>	10.02.2020 01:51	10.02.2020 02:13	10.02.2020 02:35	10.02.2020 02:58	10.02.2020 03:20	10.02.2020 03:43
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
Toluene		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
Ethylbenzene		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
m,p-Xylenes		<0.00396 0.00396	<0.00396 0.00396	<0.00403 0.00403	<0.00402 0.00402	<0.00397 0.00397	<0.00402 0.00402
o-Xylene		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
Total Xylenes		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
Total BTEX		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00201 0.00201
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09	10.01.2020 16:09
	<i>Analyzed:</i>	10.01.2020 23:45	10.01.2020 23:51	10.01.2020 23:56	10.02.2020 00:02	10.02.2020 00:07	10.02.2020 00:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4440 49.9	2130 49.9	3380 50.0	8000 198	10300 198	3930 50.1
TPH by SW8015 Mod	<i>Extracted:</i>	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30
	<i>Analyzed:</i>	10.02.2020 03:41	10.02.2020 04:01	10.02.2020 04:21	10.02.2020 04:41	10.02.2020 05:22	10.02.2020 05:43
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<50.1 50.1	<49.9 49.9	<49.9 49.9	<50.1 50.1	<50.2 50.2
Diesel Range Organics (DRO)		<50.3 50.3	57.1 50.1	185 49.9	<49.9 49.9	88.2 50.1	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<50.1 50.1	<49.9 49.9	<49.9 49.9	<50.1 50.1	<50.2 50.2
Total TPH		<50.3 50.3	57.1 50.1	185 49.9	<49.9 49.9	88.2 50.1	<50.2 50.2

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 674009



WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
Contact: Joseph Hernandez
Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15
Report Date: 11.19.2020 10:06
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	674009-061	674009-062	674009-063	674009-064	674009-065	674009-066
	<i>Field Id:</i>	FS61	FS62	FS63	FS64	FS65	FS66
	<i>Depth:</i>	0.2-0.5 ft	0.5- ft	0.5-1 ft	0.5- ft	0.5- ft	0.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.28.2020 15:17	09.28.2020 15:15	09.28.2020 15:12	09.28.2020 16:35	09.28.2020 15:08	09.28.2020 16:32
BTEX by EPA 8021B	<i>Extracted:</i>	10.01.2020 17:05	10.01.2020 17:05	10.01.2020 17:05	10.01.2020 17:05	10.01.2020 17:05	10.01.2020 17:05
	<i>Analyzed:</i>	10.02.2020 04:05	10.02.2020 04:28	10.02.2020 04:50	10.02.2020 06:08	10.02.2020 06:30	10.02.2020 06:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00402 0.00402	<0.00402 0.00402	<0.00400 0.00400	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Inorganic Anions by EPA 300	<i>Extracted:</i>	10.01.2020 16:14	10.01.2020 16:14	10.01.2020 16:14	10.01.2020 16:14	10.01.2020 16:14	10.01.2020 16:14
	<i>Analyzed:</i>	10.02.2020 00:46	10.02.2020 01:02	10.02.2020 01:08	10.02.2020 01:13	10.02.2020 01:19	10.02.2020 01:35
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4270 49.4	2390 49.9	5250 50.4	3240 50.5	5900 50.5	4170 49.8
TPH by SW8015 Mod	<i>Extracted:</i>	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30	10.01.2020 17:30
	<i>Analyzed:</i>	10.02.2020 06:03	10.02.2020 06:23	10.02.2020 06:43	10.02.2020 07:02	10.02.2020 07:23	10.02.2020 07:43
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	130 49.9	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8
Total TPH		<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	130 49.9	<49.8 49.8

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Certificate of Analysis Summary 674009

WSP USA, Dallas, TX

Project Name: Longview 1-44

Project Id: 034820036
 Contact: Joseph Hernandez
 Project Location: Eddy County

Date Received in Lab: Wed 09.30.2020 16:15
 Report Date: 11.19.2020 10:06
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id: 674009-067 Field Id: FS67 Depth: 0.5- ft Matrix: SOIL Sampled: 09.28.2020 15:05					
BTEX by EPA 8021B	Extracted: 10.01.2020 17:05 Analyzed: 10.02.2020 07:15 Units/RL: mg/kg RL					
Benzene	<0.00201 0.00201					
Toluene	<0.00201 0.00201					
Ethylbenzene	<0.00201 0.00201					
m,p-Xylenes	<0.00402 0.00402					
o-Xylene	<0.00201 0.00201					
Total Xylenes	<0.00201 0.00201					
Total BTEX	<0.00201 0.00201					
Inorganic Anions by EPA 300	Extracted: 10.01.2020 16:14 Analyzed: 10.02.2020 01:40 Units/RL: mg/kg RL					
Chloride	1140 49.8					
TPH by SW8015 Mod	Extracted: 10.01.2020 17:30 Analyzed: 10.02.2020 08:04 Units/RL: mg/kg RL					
Gasoline Range Hydrocarbons (GRO)	<49.8 49.8					
Diesel Range Organics (DRO)	94.2 49.8					
Motor Oil Range Hydrocarbons (MRO)	<49.8 49.8					
Total TPH	94.2 49.8					

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico





Environment Testing
Xenco

Analytical Report 674009

for

WSP USA

Project Manager: Joseph Hernandez

Longview 1-44

034820036

11.19.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.19.2020

Project Manager: **Joseph Hernandez**

WSP USA

2777 N. Stemmons Freeway, Suite 1600

Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **674009**

Longview 1-44

Project Address: Eddy County

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 674009. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 674009 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Environment Testing
Xenco

Sample Cross Reference 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	09.24.2020 10:20	0.15 ft	674009-001
FS02	S	09.24.2020 10:35	0.15 ft	674009-002
FS03	S	09.24.2020 10:45	0.15 ft	674009-003
FS04	S	09.24.2020 15:15	0.2 - 1.5 ft	674009-004
FS05	S	09.24.2020 11:00	0.15 ft	674009-005
FS06	S	09.24.2020 10:53	0.15 ft	674009-006
FS07	S	09.24.2020 11:10	0.15 ft	674009-007
FS08	S	09.24.2020 12:05	0.15 ft	674009-008
FS09	S	09.24.2020 12:10	0.15 ft	674009-009
FS10	S	09.24.2020 12:15	0.15 ft	674009-010
FS11	S	09.24.2020 12:20	0.15 ft	674009-011
FS12	S	09.29.2020 14:28	0.5 ft	674009-012
FS13	S	09.29.2020 14:32	0.5 ft	674009-013
FS14	S	09.29.2020 14:36	0.5 ft	674009-014
FS15	S	09.24.2020 15:25	0.15 - 0.5 ft	674009-015
FS16	S	09.29.2020 15:00	0.3 - 0.5 ft	674009-016
FS17	S	09.24.2020 12:30	0.15 ft	674009-017
FS18	S	09.24.2020 12:40	0.15 - 1.5 ft	674009-018
FS19	S	09.24.2020 13:05	0.15 - 1.5 ft	674009-019
FS20	S	09.24.2020 13:10	0.15 ft	674009-020
FS21	S	09.29.2020 13:12	0.5 ft	674009-021
FS22	S	09.29.2020 13:18	0.5 ft	674009-022
FS23	S	09.29.2020 13:20	0.5 ft	674009-023
FS24	S	09.29.2020 13:23	0.5 ft	674009-024
FS25	S	09.29.2020 13:28	0.5 ft	674009-025
FS26	S	09.29.2020 13:30	0.5 ft	674009-026
FS27	S	09.24.2020 13:30	0.15 ft	674009-027
FS28	S	09.24.2020 13:35	0.15 ft	674009-028
FS29	S	09.29.2020 13:38	0.5 ft	674009-029
FS30	S	09.28.2020 10:57	0.5 ft	674009-030
FS31	S	09.28.2020 10:52	0.5 - 1 ft	674009-031
FS32	S	09.25.2020 15:48	1 ft	674009-032
FS33	S	09.25.2020 15:46	1 ft	674009-033
FS34	S	09.25.2020 15:42	1 ft	674009-034
FS35	S	09.25.2020 15:40	1 - 2.5 ft	674009-035
FS36	S	09.25.2020 12:50	1 ft	674009-036
FS37	S	09.25.2020 12:44	1 ft	674009-037
FS38	S	09.29.2020 15:02	0.3 ft	674009-038
FS39	S	09.24.2020 14:30	0.15 ft	674009-039
FS40	S	09.24.2020 14:34	0.15 - 0.2 ft	674009-040
FS41	S	09.24.2020 14:37	0.15 ft	674009-041
FS42	S	09.24.2020 14:40	0.15 - 0.5 ft	674009-042
FS43	S	09.28.2020 10:54	0.5 - 1 ft	674009-043



Environment Testing
Xenco

Sample Cross Reference 674009

WSP USA, Dallas, TX

Longview 1-44

FS44	S	09.28.2020 13:12	0.50 - 1 ft	674009-044
FS45	S	09.24.2020 14:48	0.15 ft	674009-045
FS46	S	09.24.2020 14:50	0.15 - 0.5 ft	674009-046
FS47	S	09.28.2020 10:55	0.5 ft	674009-047
FS48	S	09.28.2020 12:05	0.5 - 1 ft	674009-048
FS49	S	09.28.2020 12:07	0.5 - 1 ft	674009-049
FS50	S	09.28.2020 12:09	0.5 - 1 ft	674009-050
FS51	S	09.28.2020 12:10	0.5 - 1 ft	674009-051
FS52	S	09.28.2020 12:12	0.5 - 1.5 ft	674009-052
FS53	S	09.28.2020 12:48	1 - 2 ft	674009-053
FS54	S	09.24.2020 16:55	0.15 - 0.5 ft	674009-054
FS55	S	09.28.2020 16:40	0.5 ft	674009-055
FS56	S	09.28.2020 15:27	0.5 ft	674009-056
FS57	S	09.28.2020 15:30	0.5 ft	674009-057
FS58	S	09.28.2020 15:32	0.5 ft	674009-058
FS59	S	09.28.2020 15:35	0.5 - 1 ft	674009-059
FS60	S	09.28.2020 15:20	0.5 ft	674009-060
FS61	S	09.28.2020 15:17	0.2 - 0.5 ft	674009-061
FS62	S	09.28.2020 15:15	0.5 ft	674009-062
FS63	S	09.28.2020 15:12	0.5 - 1 ft	674009-063
FS64	S	09.28.2020 16:35	0.5 ft	674009-064
FS65	S	09.28.2020 15:08	0.5 ft	674009-065
FS66	S	09.28.2020 16:32	0.5 ft	674009-066
FS67	S	09.28.2020 15:05	0.5 ft	674009-067



Environment Testing
Xenco

CASE NARRATIVE

Client Name: WSP USA

Project Name: Longview 1-44

Project ID: 034820036
Work Order Number(s): 674009

Report Date: 11.19.2020
Date Received: 09.30.2020

Sample receipt non conformances and comments:

V1.001 revision - Change client from LTE to WSP

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS01**
Lab Sample Id: 674009-001

Matrix: Soil
Date Collected: 09.24.2020 10:20

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3750	49.5	mg/kg	10.01.2020 15:32		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.01.2020 12:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	60.2	50.1	mg/kg	10.01.2020 12:07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.01.2020 12:07	U	1
Total TPH	PHC635	60.2	50.1	mg/kg	10.01.2020 12:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	10.01.2020 12:07	
o-Terphenyl	84-15-1	98	%	70-135	10.01.2020 12:07	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS01**
Lab Sample Id: 674009-001

Matrix: Soil
Date Collected: 09.24.2020 10:20

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.01.2020 03:28	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.01.2020 03:28	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.01.2020 03:28	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.01.2020 03:28	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.01.2020 03:28	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.01.2020 03:28	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.01.2020 03:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.01.2020 03:28	
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.01.2020 03:28	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS02**
Lab Sample Id: 674009-002

Matrix: Soil
Date Collected: 09.24.2020 10:35

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10200	199	mg/kg	10.01.2020 15:49		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.01.2020 12:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	100	49.9	mg/kg	10.01.2020 12:07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.01.2020 12:07	U	1
Total TPH	PHC635	100	49.9	mg/kg	10.01.2020 12:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	10.01.2020 12:07	
o-Terphenyl	84-15-1	99	%	70-135	10.01.2020 12:07	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS02**
Lab Sample Id: 674009-002

Matrix: Soil
Date Collected: 09.24.2020 10:35

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.01.2020 03:51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.01.2020 03:51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.01.2020 03:51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.01.2020 03:51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.01.2020 03:51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.01.2020 03:51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.01.2020 03:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.01.2020 03:51	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.01.2020 03:51	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS03**
Lab Sample Id: 674009-003

Matrix: Soil
Date Collected: 09.24.2020 10:45

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	361	9.92	mg/kg	10.01.2020 15:54		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.01.2020 14:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.01.2020 14:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.01.2020 14:27	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.01.2020 14:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.01.2020 14:27	
o-Terphenyl	84-15-1	98	%	70-135	10.01.2020 14:27	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS03**
Lab Sample Id: 674009-003

Matrix: Soil
Date Collected: 09.24.2020 10:45

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.01.2020 04:13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.01.2020 04:13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.01.2020 04:13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.01.2020 04:13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.01.2020 04:13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.01.2020 04:13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.01.2020 04:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.01.2020 04:13	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.01.2020 04:13	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS04**
Lab Sample Id: 674009-004

Matrix: Soil
Date Collected: 09.24.2020 15:15

Date Received: 09.30.2020 16:15
Sample Depth: 0.2 - 1.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3000	50.5	mg/kg	10.01.2020 16:00		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.01.2020 20:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	169	49.9	mg/kg	10.01.2020 20:57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.01.2020 20:57	U	1
Total TPH	PHC635	169	49.9	mg/kg	10.01.2020 20:57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	10.01.2020 20:57	
o-Terphenyl	84-15-1	100	%	70-135	10.01.2020 20:57	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS04**
Lab Sample Id: 674009-004

Matrix: Soil
Date Collected: 09.24.2020 15:15

Date Received: 09.30.2020 16:15
Sample Depth: 0.2 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.01.2020 05:31	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.01.2020 05:31	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.01.2020 05:31	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.01.2020 05:31	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.01.2020 05:31	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.01.2020 05:31	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.01.2020 05:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.01.2020 05:31	
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.01.2020 05:31	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS05**
 Lab Sample Id: 674009-005

Matrix: Soil
 Date Collected: 09.24.2020 11:00

Date Received: 09.30.2020 16:15
 Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
 Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6270	49.6	mg/kg	10.01.2020 16:05		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.01.2020 21:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	59.2	49.9	mg/kg	10.01.2020 21:18		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.01.2020 21:18	U	1
Total TPH	PHC635	59.2	49.9	mg/kg	10.01.2020 21:18		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.01.2020 21:18	
o-Terphenyl	84-15-1	97	%	70-135	10.01.2020 21:18	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS05**
Lab Sample Id: 674009-005

Matrix: Soil
Date Collected: 09.24.2020 11:00

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.01.2020 05:53	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.01.2020 05:53	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.01.2020 05:53	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.01.2020 05:53	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.01.2020 05:53	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.01.2020 05:53	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.01.2020 05:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	10.01.2020 05:53		
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.01.2020 05:53		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS06**
 Lab Sample Id: 674009-006

Matrix: Soil
 Date Collected: 09.24.2020 10:53

Date Received: 09.30.2020 16:15
 Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
 Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4940	49.7	mg/kg	10.01.2020 16:22		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.01.2020 15:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	205	50.1	mg/kg	10.01.2020 15:47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.01.2020 15:47	U	1
Total TPH	PHC635	205	50.1	mg/kg	10.01.2020 15:47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	10.01.2020 15:47	
o-Terphenyl	84-15-1	98	%	70-135	10.01.2020 15:47	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS06**
Lab Sample Id: 674009-006

Matrix: Soil
Date Collected: 09.24.2020 10:53

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.01.2020 06:16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.01.2020 06:16	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.01.2020 06:16	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.01.2020 06:16	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.01.2020 06:16	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.01.2020 06:16	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.01.2020 06:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.01.2020 06:16	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.01.2020 06:16	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS07**
 Lab Sample Id: 674009-007

Matrix: Soil
 Date Collected: 09.24.2020 11:10

Date Received: 09.30.2020 16:15
 Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
 Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4220	50.1	mg/kg	10.01.2020 16:27		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.01.2020 16:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	123	50.0	mg/kg	10.01.2020 16:51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.01.2020 16:51	U	1
Total TPH	PHC635	123	50.0	mg/kg	10.01.2020 16:51		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	10.01.2020 16:51	
o-Terphenyl	84-15-1	105	%	70-135	10.01.2020 16:51	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS07**
Lab Sample Id: 674009-007

Matrix: Soil
Date Collected: 09.24.2020 11:10

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.01.2020 06:38	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.01.2020 06:38	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.01.2020 06:38	U	1
m,p-Xylenes	179601-23-1	<0.00395	0.00395	mg/kg	10.01.2020 06:38	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.01.2020 06:38	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.01.2020 06:38	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.01.2020 06:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.01.2020 06:38	
4-Bromofluorobenzene	460-00-4	86	%	70-130	10.01.2020 06:38	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS08**
Lab Sample Id: 674009-008

Matrix: Soil
Date Collected: 09.24.2020 12:05

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2160	50.2	mg/kg	10.01.2020 16:33		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.01.2020 17:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	66.0	50.3	mg/kg	10.01.2020 17:13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.01.2020 17:13	U	1
Total TPH	PHC635	66.0	50.3	mg/kg	10.01.2020 17:13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	10.01.2020 17:13	
o-Terphenyl	84-15-1	104	%	70-135	10.01.2020 17:13	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS08**
Lab Sample Id: 674009-008

Matrix: Soil
Date Collected: 09.24.2020 12:05

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.01.2020 07:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.01.2020 07:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.01.2020 07:01	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.01.2020 07:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.01.2020 07:01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.01.2020 07:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.01.2020 07:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.01.2020 07:01	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.01.2020 07:01	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS09** Matrix: Soil Date Received: 09.30.2020 16:15
 Lab Sample Id: 674009-009 Date Collected: 09.24.2020 12:10 Sample Depth: 0.15 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 10.01.2020 14:01 % Moisture:
 Seq Number: 3138716 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	457	9.92	mg/kg	10.01.2020 16:38		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH
 Analyst: DTH Date Prep: 10.01.2020 11:00 % Moisture:
 Seq Number: 3138645 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.01.2020 17:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.01.2020 17:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.01.2020 17:32	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.01.2020 17:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	10.01.2020 17:32	
o-Terphenyl	84-15-1	103	%	70-135	10.01.2020 17:32	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS09**
Lab Sample Id: 674009-009

Matrix: Soil
Date Collected: 09.24.2020 12:10

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.01.2020 07:23	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.01.2020 07:23	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.01.2020 07:23	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.01.2020 07:23	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.01.2020 07:23	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.01.2020 07:23	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.01.2020 07:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	10.01.2020 07:23	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.01.2020 07:23	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS10** Matrix: Soil Date Received: 09.30.2020 16:15
 Lab Sample Id: 674009-010 Date Collected: 09.24.2020 12:15 Sample Depth: 0.15 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 10.01.2020 14:01 % Moisture:
 Seq Number: 3138716 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2400	49.9	mg/kg	10.01.2020 16:44		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH
 Analyst: DTH Date Prep: 10.01.2020 11:00 % Moisture:
 Seq Number: 3138645 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.01.2020 17:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	370	50.1	mg/kg	10.01.2020 17:54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.01.2020 17:54	U	1
Total TPH	PHC635	370	50.1	mg/kg	10.01.2020 17:54		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	114	%	70-135	10.01.2020 17:54		
o-Terphenyl	84-15-1	105	%	70-135	10.01.2020 17:54		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS10**
Lab Sample Id: 674009-010

Matrix: Soil
Date Collected: 09.24.2020 12:15

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.01.2020 07:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.01.2020 07:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.01.2020 07:45	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.01.2020 07:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.01.2020 07:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.01.2020 07:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.01.2020 07:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	10.01.2020 07:45	
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.01.2020 07:45	

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS11**
Lab Sample Id: 674009-011

Matrix: Soil
Date Collected: 09.24.2020 12:20

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4970	49.5	mg/kg	10.01.2020 16:49		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.01.2020 18:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.01.2020 18:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.01.2020 18:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.01.2020 18:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	10.01.2020 18:14	
o-Terphenyl	84-15-1	100	%	70-135	10.01.2020 18:14	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS11**
Lab Sample Id: 674009-011

Matrix: Soil
Date Collected: 09.24.2020 12:20

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.01.2020 08:08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.01.2020 08:08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.01.2020 08:08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.01.2020 08:08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.01.2020 08:08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.01.2020 08:08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.01.2020 08:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.01.2020 08:08	
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.01.2020 08:08	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS12**
Lab Sample Id: 674009-012

Matrix: Soil
Date Collected: 09.29.2020 14:28

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7780	50.4	mg/kg	10.01.2020 17:06		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.01.2020 18:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.01.2020 18:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.01.2020 18:34	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.01.2020 18:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	10.01.2020 18:34	
o-Terphenyl	84-15-1	104	%	70-135	10.01.2020 18:34	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS12**
Lab Sample Id: 674009-012

Matrix: Soil
Date Collected: 09.29.2020 14:28

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.01.2020 08:30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.01.2020 08:30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.01.2020 08:30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.01.2020 08:30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.01.2020 08:30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.01.2020 08:30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.01.2020 08:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.01.2020 08:30	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.01.2020 08:30	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS13**
Lab Sample Id: 674009-013

Matrix: Soil
Date Collected: 09.29.2020 14:32

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1260	50.3	mg/kg	10.01.2020 17:11		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.01.2020 18:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.01.2020 18:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.01.2020 18:54	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.01.2020 18:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.01.2020 18:54	
o-Terphenyl	84-15-1	103	%	70-135	10.01.2020 18:54	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS13**
Lab Sample Id: 674009-013

Matrix: Soil
Date Collected: 09.29.2020 14:32

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 09.30.2020 17:40

% Moisture:
Basis: Wet Weight

Seq Number: 3138586

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.01.2020 08:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.01.2020 08:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.01.2020 08:53	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.01.2020 08:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.01.2020 08:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.01.2020 08:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.01.2020 08:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.01.2020 08:53	
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.01.2020 08:53	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS14**
Lab Sample Id: 674009-014

Matrix: Soil
Date Collected: 09.29.2020 14:36

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1780	50.1	mg/kg	10.01.2020 17:27		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.01.2020 19:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	51.6	49.8	mg/kg	10.01.2020 19:14		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.01.2020 19:14	U	1
Total TPH	PHC635	51.6	49.8	mg/kg	10.01.2020 19:14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	10.01.2020 19:14	
o-Terphenyl	84-15-1	103	%	70-135	10.01.2020 19:14	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS14**
Lab Sample Id: 674009-014

Matrix: Soil
Date Collected: 09.29.2020 14:36

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.01.2020 13:44	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.01.2020 13:44	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.01.2020 13:44	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.01.2020 13:44	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.01.2020 13:44	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.01.2020 13:44	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.01.2020 13:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.01.2020 13:44	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.01.2020 13:44	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS15**
 Lab Sample Id: 674009-015

Matrix: Soil
 Date Collected: 09.24.2020 15:25

Date Received: 09.30.2020 16:15
 Sample Depth: 0.15 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
 Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3720	49.7	mg/kg	10.01.2020 17:33		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.01.2020 19:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	211	50.1	mg/kg	10.01.2020 19:35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.01.2020 19:35	U	1
Total TPH	PHC635	211	50.1	mg/kg	10.01.2020 19:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	10.01.2020 19:35	
o-Terphenyl	84-15-1	105	%	70-135	10.01.2020 19:35	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS15**
Lab Sample Id: 674009-015

Matrix: Soil
Date Collected: 09.24.2020 15:25

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.01.2020 15:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.01.2020 15:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.01.2020 15:36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.01.2020 15:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.01.2020 15:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.01.2020 15:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.01.2020 15:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.01.2020 15:36	
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.01.2020 15:36	

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS16**
Lab Sample Id: 674009-016

Matrix: Soil
Date Collected: 09.29.2020 15:00

Date Received: 09.30.2020 16:15
Sample Depth: 0.3 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1950	49.8	mg/kg	10.01.2020 17:38		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138645

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.01.2020 19:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	56.1	50.0	mg/kg	10.01.2020 19:55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.01.2020 19:55	U	1
Total TPH	PHC635	56.1	50.0	mg/kg	10.01.2020 19:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.01.2020 19:55	
o-Terphenyl	84-15-1	99	%	70-135	10.01.2020 19:55	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS16**
Lab Sample Id: 674009-016

Matrix: Soil
Date Collected: 09.29.2020 15:00

Date Received: 09.30.2020 16:15
Sample Depth: 0.3 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.01.2020 15:58	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.01.2020 15:58	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.01.2020 15:58	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.01.2020 15:58	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.01.2020 15:58	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.01.2020 15:58	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.01.2020 15:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	93	%	70-130	10.01.2020 15:58	
4-Bromofluorobenzene	460-00-4	113	%	70-130	10.01.2020 15:58	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS17**
Lab Sample Id: 674009-017

Matrix: Soil
Date Collected: 09.24.2020 12:30

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5840	49.9	mg/kg	10.01.2020 17:44		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.01.2020 15:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	158	50.0	mg/kg	10.01.2020 15:07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.01.2020 15:07	U	1
Total TPH	PHC635	158	50.0	mg/kg	10.01.2020 15:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.01.2020 15:07	
o-Terphenyl	84-15-1	100	%	70-135	10.01.2020 15:07	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS17**
Lab Sample Id: 674009-017

Matrix: Soil
Date Collected: 09.24.2020 12:30

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.01.2020 16:21	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.01.2020 16:21	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.01.2020 16:21	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.01.2020 16:21	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.01.2020 16:21	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.01.2020 16:21	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.01.2020 16:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.01.2020 16:21	
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.01.2020 16:21	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS18**
 Lab Sample Id: 674009-018

Matrix: Soil
 Date Collected: 09.24.2020 12:40

Date Received: 09.30.2020 16:15
 Sample Depth: 0.15 - 1.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
 Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6970	49.6	mg/kg	10.01.2020 17:49		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.01.2020 15:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	219	49.9	mg/kg	10.01.2020 15:27		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.01.2020 15:27	U	1
Total TPH	PHC635	219	49.9	mg/kg	10.01.2020 15:27		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.01.2020 15:27	
o-Terphenyl	84-15-1	97	%	70-135	10.01.2020 15:27	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS18**
Lab Sample Id: 674009-018

Matrix: Soil
Date Collected: 09.24.2020 12:40

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.01.2020 16:43	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.01.2020 16:43	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.01.2020 16:43	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.01.2020 16:43	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.01.2020 16:43	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.01.2020 16:43	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.01.2020 16:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.01.2020 16:43	
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.01.2020 16:43	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS19**
 Lab Sample Id: 674009-019

Matrix: Soil
 Date Collected: 09.24.2020 13:05

Date Received: 09.30.2020 16:15
 Sample Depth: 0.15 - 1.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:01

% Moisture:
 Basis: Wet Weight

Seq Number: 3138716

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8480	198	mg/kg	10.01.2020 17:55		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.01.2020 15:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.01.2020 15:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.01.2020 15:47	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.01.2020 15:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.01.2020 15:47	
o-Terphenyl	84-15-1	97	%	70-135	10.01.2020 15:47	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS19**
Lab Sample Id: 674009-019

Matrix: Soil
Date Collected: 09.24.2020 13:05

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.01.2020 17:06	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.01.2020 17:06	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.01.2020 17:06	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.01.2020 17:06	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.01.2020 17:06	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.01.2020 17:06	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.01.2020 17:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.01.2020 17:06	
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.01.2020 17:06	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS20** Matrix: Soil Date Received: 09.30.2020 16:15
 Lab Sample Id: 674009-020 Date Collected: 09.24.2020 13:10 Sample Depth: 0.15 ft
 Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 10.01.2020 14:01 % Moisture:
 Seq Number: 3138716 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4560	50.5	mg/kg	10.01.2020 18:00		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH
 Analyst: DTH Date Prep: 10.01.2020 11:00 % Moisture:
 Seq Number: 3138644 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.01.2020 16:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	67.5	50.1	mg/kg	10.01.2020 16:51		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.01.2020 16:51	U	1
Total TPH	PHC635	67.5	50.1	mg/kg	10.01.2020 16:51		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	10.01.2020 16:51		
o-Terphenyl	84-15-1	94	%	70-135	10.01.2020 16:51		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS20**
Lab Sample Id: 674009-020

Matrix: Soil
Date Collected: 09.24.2020 13:10

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.01.2020 18:23	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.01.2020 18:23	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.01.2020 18:23	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.01.2020 18:23	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.01.2020 18:23	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.01.2020 18:23	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.01.2020 18:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.01.2020 18:23	
4-Bromofluorobenzene	460-00-4	88	%	70-130	10.01.2020 18:23	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS21**
Lab Sample Id: 674009-021

Matrix: Soil
Date Collected: 09.29.2020 13:12

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1620	9.90	mg/kg	10.01.2020 18:33		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.01.2020 17:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.01.2020 17:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.01.2020 17:13	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.01.2020 17:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.01.2020 17:13	
o-Terphenyl	84-15-1	95	%	70-135	10.01.2020 17:13	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS21**
Lab Sample Id: 674009-021

Matrix: Soil
Date Collected: 09.29.2020 13:12

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.01.2020 18:46	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.01.2020 18:46	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.01.2020 18:46	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.01.2020 18:46	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.01.2020 18:46	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.01.2020 18:46	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.01.2020 18:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	10.01.2020 18:46	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.01.2020 18:46	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS22**
 Lab Sample Id: 674009-022

Matrix: Soil
 Date Collected: 09.29.2020 13:18

Date Received: 09.30.2020 16:15
 Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
 Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6650	50.4	mg/kg	10.01.2020 18:50		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.01.2020 17:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	83.6	50.0	mg/kg	10.01.2020 17:32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.01.2020 17:32	U	1
Total TPH	PHC635	83.6	50.0	mg/kg	10.01.2020 17:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.01.2020 17:32	
o-Terphenyl	84-15-1	101	%	70-135	10.01.2020 17:32	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS22**
Lab Sample Id: 674009-022

Matrix: Soil
Date Collected: 09.29.2020 13:18

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.01.2020 19:08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.01.2020 19:08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.01.2020 19:08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.01.2020 19:08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.01.2020 19:08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.01.2020 19:08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.01.2020 19:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.01.2020 19:08	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.01.2020 19:08	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS23**
Lab Sample Id: 674009-023

Matrix: Soil
Date Collected: 09.29.2020 13:20

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8480	198	mg/kg	10.01.2020 18:55		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.01.2020 17:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	55.7	49.9	mg/kg	10.01.2020 17:54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.01.2020 17:54	U	1
Total TPH	PHC635	55.7	49.9	mg/kg	10.01.2020 17:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.01.2020 17:54	
o-Terphenyl	84-15-1	98	%	70-135	10.01.2020 17:54	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS23**
Lab Sample Id: 674009-023

Matrix: Soil
Date Collected: 09.29.2020 13:20

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.01.2020 19:31	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.01.2020 19:31	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.01.2020 19:31	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.01.2020 19:31	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.01.2020 19:31	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.01.2020 19:31	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.01.2020 19:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.01.2020 19:31	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.01.2020 19:31	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS24**
Lab Sample Id: 674009-024

Matrix: Soil
Date Collected: 09.29.2020 13:23

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10600	200	mg/kg	10.01.2020 19:01		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.01.2020 18:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	145	49.9	mg/kg	10.01.2020 18:14		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.01.2020 18:14	U	1
Total TPH	PHC635	145	49.9	mg/kg	10.01.2020 18:14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.01.2020 18:14	
o-Terphenyl	84-15-1	99	%	70-135	10.01.2020 18:14	



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WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS24**
Lab Sample Id: 674009-024

Matrix: Soil
Date Collected: 09.29.2020 13:23

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.01.2020 19:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.01.2020 19:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.01.2020 19:53	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.01.2020 19:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.01.2020 19:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.01.2020 19:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.01.2020 19:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.01.2020 19:53	
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.01.2020 19:53	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS25**
Lab Sample Id: 674009-025

Matrix: Soil
Date Collected: 09.29.2020 13:28

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3230	49.8	mg/kg	10.01.2020 19:06		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.01.2020 18:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	100	49.9	mg/kg	10.01.2020 18:34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.01.2020 18:34	U	1
Total TPH	PHC635	100	49.9	mg/kg	10.01.2020 18:34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	10.01.2020 18:34	
o-Terphenyl	84-15-1	97	%	70-135	10.01.2020 18:34	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS25**
Lab Sample Id: 674009-025

Matrix: Soil
Date Collected: 09.29.2020 13:28

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.01.2020 20:16	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.01.2020 20:16	U	1
Ethylbenzene	100-41-4	0.0146	0.00198	mg/kg	10.01.2020 20:16		1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.01.2020 20:16	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.01.2020 20:16	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.01.2020 20:16	U	1
Total BTEX		0.0146	0.00198	mg/kg	10.01.2020 20:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.01.2020 20:16	
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.01.2020 20:16	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS26**
Lab Sample Id: 674009-026

Matrix: Soil
Date Collected: 09.29.2020 13:30

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3430	50.2	mg/kg	10.01.2020 19:23		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.01.2020 18:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	102	50.1	mg/kg	10.01.2020 18:54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.01.2020 18:54	U	1
Total TPH	PHC635	102	50.1	mg/kg	10.01.2020 18:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	10.01.2020 18:54	
o-Terphenyl	84-15-1	99	%	70-135	10.01.2020 18:54	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS26**
Lab Sample Id: 674009-026

Matrix: Soil
Date Collected: 09.29.2020 13:30

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.01.2020 20:38	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.01.2020 20:38	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.01.2020 20:38	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.01.2020 20:38	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.01.2020 20:38	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.01.2020 20:38	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.01.2020 20:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	10.01.2020 20:38	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.01.2020 20:38	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS27**
Lab Sample Id: 674009-027

Matrix: Soil
Date Collected: 09.24.2020 13:30

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	582	50.4	mg/kg	10.01.2020 19:28		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.01.2020 19:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	61.9	49.9	mg/kg	10.01.2020 19:14		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.01.2020 19:14	U	1
Total TPH	PHC635	61.9	49.9	mg/kg	10.01.2020 19:14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.01.2020 19:14	
o-Terphenyl	84-15-1	94	%	70-135	10.01.2020 19:14	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS27**
Lab Sample Id: 674009-027

Matrix: Soil
Date Collected: 09.24.2020 13:30

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.01.2020 21:01	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.01.2020 21:01	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.01.2020 21:01	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.01.2020 21:01	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.01.2020 21:01	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.01.2020 21:01	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.01.2020 21:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.01.2020 21:01		
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.01.2020 21:01		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS28**
Lab Sample Id: 674009-028

Matrix: Soil
Date Collected: 09.24.2020 13:35

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2700	50.4	mg/kg	10.01.2020 19:34		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.01.2020 19:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.01.2020 19:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.01.2020 19:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.01.2020 19:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.01.2020 19:35	
o-Terphenyl	84-15-1	95	%	70-135	10.01.2020 19:35	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS28**
Lab Sample Id: 674009-028

Matrix: Soil
Date Collected: 09.24.2020 13:35

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.01.2020 21:23	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.01.2020 21:23	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.01.2020 21:23	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.01.2020 21:23	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.01.2020 21:23	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.01.2020 21:23	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.01.2020 21:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.01.2020 21:23	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.01.2020 21:23	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS29**
Lab Sample Id: 674009-029

Matrix: Soil
Date Collected: 09.29.2020 13:38

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8310	200	mg/kg	10.01.2020 19:39		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138644

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.01.2020 19:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.01.2020 19:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.01.2020 19:55	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.01.2020 19:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.01.2020 19:55	
o-Terphenyl	84-15-1	93	%	70-135	10.01.2020 19:55	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS29**
Lab Sample Id: 674009-029

Matrix: Soil
Date Collected: 09.29.2020 13:38

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138642

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.01.2020 21:45	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.01.2020 21:45	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.01.2020 21:45	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.01.2020 21:45	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.01.2020 21:45	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.01.2020 21:45	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.01.2020 21:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.01.2020 21:45	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.01.2020 21:45	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS30**
Lab Sample Id: 674009-030

Matrix: Soil
Date Collected: 09.28.2020 10:57

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1910	49.8	mg/kg	10.01.2020 19:44		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.02.2020 00:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.02.2020 00:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.02.2020 00:59	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.02.2020 00:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.02.2020 00:59	
o-Terphenyl	84-15-1	90	%	70-135	10.02.2020 00:59	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS30**
Lab Sample Id: 674009-030

Matrix: Soil
Date Collected: 09.28.2020 10:57

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.01.2020 16:24	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.01.2020 16:24	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.01.2020 16:24	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.01.2020 16:24	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.01.2020 16:24	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.01.2020 16:24	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.01.2020 16:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.01.2020 16:24	
4-Bromofluorobenzene	460-00-4	117	%	70-130	10.01.2020 16:24	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS31**
Lab Sample Id: 674009-031

Matrix: Soil
Date Collected: 09.28.2020 10:52

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2960	49.8	mg/kg	10.01.2020 19:50		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.02.2020 02:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.02.2020 02:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.02.2020 02:00	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.02.2020 02:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.02.2020 02:00	
o-Terphenyl	84-15-1	95	%	70-135	10.02.2020 02:00	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS31**
 Lab Sample Id: 674009-031

Matrix: Soil
 Date Collected: 09.28.2020 10:52

Date Received: 09.30.2020 16:15
 Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.01.2020 16:47	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.01.2020 16:47	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.01.2020 16:47	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.01.2020 16:47	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.01.2020 16:47	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.01.2020 16:47	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.01.2020 16:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.01.2020 16:47	
4-Bromofluorobenzene	460-00-4	117	%	70-130	10.01.2020 16:47	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS32**
 Lab Sample Id: 674009-032

Matrix: Soil
 Date Collected: 09.25.2020 15:48

Date Received: 09.30.2020 16:15
 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
 Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3840	50.4	mg/kg	10.01.2020 20:06		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
 Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.02.2020 02:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	74.7	50.3	mg/kg	10.02.2020 02:20		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.02.2020 02:20	U	1
Total TPH	PHC635	74.7	50.3	mg/kg	10.02.2020 02:20		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	10.02.2020 02:20	
o-Terphenyl	84-15-1	94	%	70-135	10.02.2020 02:20	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS32**
Lab Sample Id: 674009-032

Matrix: Soil
Date Collected: 09.25.2020 15:48

Date Received: 09.30.2020 16:15
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.01.2020 17:09	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.01.2020 17:09	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.01.2020 17:09	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.01.2020 17:09	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.01.2020 17:09	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.01.2020 17:09	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.01.2020 17:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	10.01.2020 17:09		
1,4-Difluorobenzene	540-36-3	95	%	70-130	10.01.2020 17:09		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS33**
Lab Sample Id: 674009-033

Matrix: Soil
Date Collected: 09.25.2020 15:46

Date Received: 09.30.2020 16:15
Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3930	50.3	mg/kg	10.01.2020 20:12		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.02.2020 02:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	549	50.2	mg/kg	10.02.2020 02:40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	164	50.2	mg/kg	10.02.2020 02:40		1
Total TPH	PHC635	713	50.2	mg/kg	10.02.2020 02:40		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	10.02.2020 02:40		
o-Terphenyl	84-15-1	98	%	70-135	10.02.2020 02:40		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS33**
Lab Sample Id: 674009-033

Matrix: Soil
Date Collected: 09.25.2020 15:46

Date Received: 09.30.2020 16:15
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.01.2020 18:29	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.01.2020 18:29	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.01.2020 18:29	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.01.2020 18:29	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.01.2020 18:29	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.01.2020 18:29	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.01.2020 18:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.01.2020 18:29	
4-Bromofluorobenzene	460-00-4	106	%	70-130	10.01.2020 18:29	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS34**
Lab Sample Id: 674009-034

Matrix: Soil
Date Collected: 09.25.2020 15:42

Date Received: 09.30.2020 16:15
Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4430	50.1	mg/kg	10.01.2020 20:28		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.02.2020 03:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	344	50.2	mg/kg	10.02.2020 03:00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	122	50.2	mg/kg	10.02.2020 03:00		1
Total TPH	PHC635	466	50.2	mg/kg	10.02.2020 03:00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.02.2020 03:00	
o-Terphenyl	84-15-1	96	%	70-135	10.02.2020 03:00	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS34**
Lab Sample Id: 674009-034

Matrix: Soil
Date Collected: 09.25.2020 15:42

Date Received: 09.30.2020 16:15
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.01.2020 18:52	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.01.2020 18:52	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.01.2020 18:52	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.01.2020 18:52	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.01.2020 18:52	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.01.2020 18:52	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.01.2020 18:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	10.01.2020 18:52	
1,4-Difluorobenzene	540-36-3	108	%	70-130	10.01.2020 18:52	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS35**
Lab Sample Id: 674009-035

Matrix: Soil
Date Collected: 09.25.2020 15:40

Date Received: 09.30.2020 16:15
Sample Depth: 1 - 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6910	49.6	mg/kg	10.01.2020 20:34		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.02.2020 03:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	258	50.2	mg/kg	10.02.2020 03:21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	93.2	50.2	mg/kg	10.02.2020 03:21		1
Total TPH	PHC635	351	50.2	mg/kg	10.02.2020 03:21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.02.2020 03:21	
o-Terphenyl	84-15-1	95	%	70-135	10.02.2020 03:21	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS35**
Lab Sample Id: 674009-035

Matrix: Soil
Date Collected: 09.25.2020 15:40

Date Received: 09.30.2020 16:15
Sample Depth: 1 - 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.01.2020 19:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.01.2020 19:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.01.2020 19:14	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.01.2020 19:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.01.2020 19:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.01.2020 19:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.01.2020 19:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	10.01.2020 19:14		
1,4-Difluorobenzene	540-36-3	107	%	70-130	10.01.2020 19:14		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS36**
 Lab Sample Id: 674009-036

Matrix: Soil
 Date Collected: 09.25.2020 12:50

Date Received: 09.30.2020 16:15
 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
 Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5730	50.1	mg/kg	10.01.2020 20:39		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
 Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.02.2020 03:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.02.2020 03:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.02.2020 03:41	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.02.2020 03:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	10.02.2020 03:41	
o-Terphenyl	84-15-1	95	%	70-135	10.02.2020 03:41	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS36**
Lab Sample Id: 674009-036

Matrix: Soil
Date Collected: 09.25.2020 12:50

Date Received: 09.30.2020 16:15
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.01.2020 19:37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.01.2020 19:37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.01.2020 19:37	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.01.2020 19:37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.01.2020 19:37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.01.2020 19:37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.01.2020 19:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.01.2020 19:37	
4-Bromofluorobenzene	460-00-4	113	%	70-130	10.01.2020 19:37	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS37**
Lab Sample Id: 674009-037

Matrix: Soil
Date Collected: 09.25.2020 12:44

Date Received: 09.30.2020 16:15
Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3160	50.5	mg/kg	10.01.2020 20:45		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.02.2020 04:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	607	50.2	mg/kg	10.02.2020 04:01		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	237	50.2	mg/kg	10.02.2020 04:01		1
Total TPH	PHC635	844	50.2	mg/kg	10.02.2020 04:01		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	10.02.2020 04:01		
o-Terphenyl	84-15-1	96	%	70-135	10.02.2020 04:01		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS37**
Lab Sample Id: 674009-037

Matrix: Soil
Date Collected: 09.25.2020 12:44

Date Received: 09.30.2020 16:15
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.01.2020 19:59	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.01.2020 19:59	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.01.2020 19:59	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.01.2020 19:59	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.01.2020 19:59	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.01.2020 19:59	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.01.2020 19:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.01.2020 19:59	
4-Bromofluorobenzene	460-00-4	110	%	70-130	10.01.2020 19:59	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS38**
Lab Sample Id: 674009-038

Matrix: Soil
Date Collected: 09.29.2020 15:02

Date Received: 09.30.2020 16:15
Sample Depth: 0.3 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7120	50.5	mg/kg	10.01.2020 20:50		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.02.2020 04:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	75.0	50.2	mg/kg	10.02.2020 04:21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.02.2020 04:21	U	1
Total TPH	PHC635	75.0	50.2	mg/kg	10.02.2020 04:21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	10.02.2020 04:21	
o-Terphenyl	84-15-1	98	%	70-135	10.02.2020 04:21	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS38**
Lab Sample Id: 674009-038

Matrix: Soil
Date Collected: 09.29.2020 15:02

Date Received: 09.30.2020 16:15
Sample Depth: 0.3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.01.2020 20:22	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.01.2020 20:22	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.01.2020 20:22	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.01.2020 20:22	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.01.2020 20:22	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.01.2020 20:22	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.01.2020 20:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	10.01.2020 20:22	
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.01.2020 20:22	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS39**
Lab Sample Id: 674009-039

Matrix: Soil
Date Collected: 09.24.2020 14:30

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	240	9.96	mg/kg	10.01.2020 20:56		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.02.2020 04:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.02.2020 04:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.02.2020 04:41	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.02.2020 04:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	10.02.2020 04:41	
o-Terphenyl	84-15-1	97	%	70-135	10.02.2020 04:41	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS39**
Lab Sample Id: 674009-039

Matrix: Soil
Date Collected: 09.24.2020 14:30

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.01.2020 20:44	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.01.2020 20:44	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.01.2020 20:44	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.01.2020 20:44	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.01.2020 20:44	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.01.2020 20:44	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.01.2020 20:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	10.01.2020 20:44	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.01.2020 20:44	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS40**
Lab Sample Id: 674009-040

Matrix: Soil
Date Collected: 09.24.2020 14:34

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 - 0.2 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 14:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138720

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	337	10.0	mg/kg	10.01.2020 21:01		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.02.2020 05:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.02.2020 05:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.02.2020 05:22	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.02.2020 05:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	10.02.2020 05:22	
o-Terphenyl	84-15-1	97	%	70-135	10.02.2020 05:22	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS40**
Lab Sample Id: 674009-040

Matrix: Soil
Date Collected: 09.24.2020 14:34

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 - 0.2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.01.2020 21:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.01.2020 21:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.01.2020 21:07	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.01.2020 21:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.01.2020 21:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.01.2020 21:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.01.2020 21:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.01.2020 21:07	
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.01.2020 21:07	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS41**
 Lab Sample Id: 674009-041

Matrix: Soil
 Date Collected: 09.24.2020 14:37

Date Received: 09.30.2020 16:15
 Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
 Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1170	50.3	mg/kg	10.01.2020 21:45		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
 Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.02.2020 05:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	72.0	49.9	mg/kg	10.02.2020 05:43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.02.2020 05:43	U	1
Total TPH	PHC635	72.0	49.9	mg/kg	10.02.2020 05:43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	10.02.2020 05:43	
o-Terphenyl	84-15-1	95	%	70-135	10.02.2020 05:43	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS41**
Lab Sample Id: 674009-041

Matrix: Soil
Date Collected: 09.24.2020 14:37

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.01.2020 21:29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.01.2020 21:29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.01.2020 21:29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.01.2020 21:29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.01.2020 21:29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.01.2020 21:29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.01.2020 21:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	10.01.2020 21:29	
4-Bromofluorobenzene	460-00-4	114	%	70-130	10.01.2020 21:29	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS42**
Lab Sample Id: 674009-042

Matrix: Soil
Date Collected: 09.24.2020 14:40

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4060	50.2	mg/kg	10.01.2020 22:01		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.02.2020 06:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	51.0	50.2	mg/kg	10.02.2020 06:03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.02.2020 06:03	U	1
Total TPH	PHC635	51.0	50.2	mg/kg	10.02.2020 06:03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	10.02.2020 06:03	
o-Terphenyl	84-15-1	98	%	70-135	10.02.2020 06:03	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS42**
Lab Sample Id: 674009-042

Matrix: Soil
Date Collected: 09.24.2020 14:40

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3138643

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.01.2020 21:52	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.01.2020 21:52	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.01.2020 21:52	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.01.2020 21:52	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.01.2020 21:52	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.01.2020 21:52	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.01.2020 21:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	10.01.2020 21:52		
1,4-Difluorobenzene	540-36-3	108	%	70-130	10.01.2020 21:52		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS43**
Lab Sample Id: 674009-043

Matrix: Soil
Date Collected: 09.28.2020 10:54

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1620	49.7	mg/kg	10.01.2020 22:07		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.02.2020 06:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.02.2020 06:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.02.2020 06:23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.02.2020 06:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.02.2020 06:23	
o-Terphenyl	84-15-1	99	%	70-135	10.02.2020 06:23	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS43**
Lab Sample Id: 674009-043

Matrix: Soil
Date Collected: 09.28.2020 10:54

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.02.2020 07:37	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.02.2020 07:37	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.02.2020 07:37	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.02.2020 07:37	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.02.2020 07:37	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.02.2020 07:37	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.02.2020 07:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.02.2020 07:37	
4-Bromofluorobenzene	460-00-4	93	%	70-130	10.02.2020 07:37	

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS44**
Lab Sample Id: 674009-044

Matrix: Soil
Date Collected: 09.28.2020 13:12

Date Received: 09.30.2020 16:15
Sample Depth: 0.50 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5910	49.6	mg/kg	10.01.2020 22:12		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.02.2020 06:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.02.2020 06:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.02.2020 06:43	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.02.2020 06:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	10.02.2020 06:43	
o-Terphenyl	84-15-1	98	%	70-135	10.02.2020 06:43	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS44**
Lab Sample Id: 674009-044

Matrix: Soil
Date Collected: 09.28.2020 13:12

Date Received: 09.30.2020 16:15
Sample Depth: 0.50 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.02.2020 08:00	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.02.2020 08:00	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.02.2020 08:00	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.02.2020 08:00	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.02.2020 08:00	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.02.2020 08:00	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.02.2020 08:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.02.2020 08:00	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 08:00	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS45**
Lab Sample Id: 674009-045

Matrix: Soil
Date Collected: 09.24.2020 14:48

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	485	9.92	mg/kg	10.01.2020 22:18		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.02.2020 07:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.02.2020 07:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.02.2020 07:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.02.2020 07:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	10.02.2020 07:02	
o-Terphenyl	84-15-1	100	%	70-135	10.02.2020 07:02	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS45**
Lab Sample Id: 674009-045

Matrix: Soil
Date Collected: 09.24.2020 14:48

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 15:02

% Moisture:
Basis: Wet Weight

Seq Number: 3138734

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.02.2020 01:38	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.02.2020 01:38	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.02.2020 01:38	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.02.2020 01:38	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.02.2020 01:38	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.02.2020 01:38	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.02.2020 01:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.02.2020 01:38	
4-Bromofluorobenzene	460-00-4	116	%	70-130	10.02.2020 01:38	

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS46**
Lab Sample Id: 674009-046

Matrix: Soil
Date Collected: 09.24.2020 14:50

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2210	49.7	mg/kg	10.01.2020 22:34		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.02.2020 07:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	110	49.9	mg/kg	10.02.2020 07:23		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.02.2020 07:23	U	1
Total TPH	PHC635	110	49.9	mg/kg	10.02.2020 07:23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.02.2020 07:23	
o-Terphenyl	84-15-1	97	%	70-135	10.02.2020 07:23	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS46**
Lab Sample Id: 674009-046

Matrix: Soil
Date Collected: 09.24.2020 14:50

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 15:02

% Moisture:
Basis: Wet Weight

Seq Number: 3138734

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.02.2020 02:01	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.02.2020 02:01	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.02.2020 02:01	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.02.2020 02:01	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.02.2020 02:01	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.02.2020 02:01	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.02.2020 02:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	10.02.2020 02:01	
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.02.2020 02:01	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS47**
Lab Sample Id: 674009-047

Matrix: Soil
Date Collected: 09.28.2020 10:55

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2150	49.8	mg/kg	10.01.2020 22:40		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.02.2020 07:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	10.02.2020 07:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.02.2020 07:43	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	10.02.2020 07:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.02.2020 07:43	
o-Terphenyl	84-15-1	98	%	70-135	10.02.2020 07:43	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS47**
Lab Sample Id: 674009-047

Matrix: Soil
Date Collected: 09.28.2020 10:55

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 15:02

% Moisture:
Basis: Wet Weight

Seq Number: 3138734

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.02.2020 02:23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.02.2020 02:23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.02.2020 02:23	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.02.2020 02:23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.02.2020 02:23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.02.2020 02:23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.02.2020 02:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.02.2020 02:23	
1,4-Difluorobenzene	540-36-3	104	%	70-130	10.02.2020 02:23	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS48**
 Lab Sample Id: 674009-048

Matrix: Soil
 Date Collected: 09.28.2020 12:05

Date Received: 09.30.2020 16:15
 Sample Depth: 0.5 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
 Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2730	50.1	mg/kg	10.01.2020 22:45		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
 Basis: Wet Weight

Seq Number: 3138687

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.02.2020 08:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	99.2	50.1	mg/kg	10.02.2020 08:04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.02.2020 08:04	U	1
Total TPH	PHC635	99.2	50.1	mg/kg	10.02.2020 08:04		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	10.02.2020 08:04		
o-Terphenyl	84-15-1	96	%	70-135	10.02.2020 08:04		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS48**
Lab Sample Id: 674009-048

Matrix: Soil
Date Collected: 09.28.2020 12:05

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 15:02

% Moisture:
Basis: Wet Weight

Seq Number: 3138734

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.02.2020 02:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.02.2020 02:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.02.2020 02:46	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.02.2020 02:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.02.2020 02:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.02.2020 02:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.02.2020 02:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.02.2020 02:46		
4-Bromofluorobenzene	460-00-4	113	%	70-130	10.02.2020 02:46		

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS49**
Lab Sample Id: 674009-049

Matrix: Soil
Date Collected: 09.28.2020 12:07

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3900	50.1	mg/kg	10.01.2020 22:51		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.02.2020 00:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	144	49.8	mg/kg	10.02.2020 00:59		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.02.2020 00:59	U	1
Total TPH	PHC635	144	49.8	mg/kg	10.02.2020 00:59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	10.02.2020 00:59	
o-Terphenyl	84-15-1	103	%	70-135	10.02.2020 00:59	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS49**
Lab Sample Id: 674009-049

Matrix: Soil
Date Collected: 09.28.2020 12:07

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 15:02

% Moisture:
Basis: Wet Weight

Seq Number: 3138734

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.02.2020 03:08	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.02.2020 03:08	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.02.2020 03:08	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.02.2020 03:08	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.02.2020 03:08	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.02.2020 03:08	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.02.2020 03:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	10.02.2020 03:08	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.02.2020 03:08	

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS50**
Lab Sample Id: 674009-050

Matrix: Soil
Date Collected: 09.28.2020 12:09

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8380	198	mg/kg	10.01.2020 22:56		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.02.2020 02:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	591	49.9	mg/kg	10.02.2020 02:00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	232	49.9	mg/kg	10.02.2020 02:00		1
Total TPH	PHC635	823	49.9	mg/kg	10.02.2020 02:00		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-135	10.02.2020 02:00		
o-Terphenyl	84-15-1	100	%	70-135	10.02.2020 02:00		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS50**
Lab Sample Id: 674009-050

Matrix: Soil
Date Collected: 09.28.2020 12:09

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 15:02

% Moisture:
Basis: Wet Weight

Seq Number: 3138734

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.02.2020 03:31	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.02.2020 03:31	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.02.2020 03:31	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.02.2020 03:31	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.02.2020 03:31	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.02.2020 03:31	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.02.2020 03:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.02.2020 03:31	
4-Bromofluorobenzene	460-00-4	114	%	70-130	10.02.2020 03:31	

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS51**
Lab Sample Id: 674009-051

Matrix: Soil
Date Collected: 09.28.2020 12:10

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9440	200	mg/kg	10.01.2020 23:02		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.02.2020 02:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	107	49.8	mg/kg	10.02.2020 02:20		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.02.2020 02:20	U	1
Total TPH	PHC635	107	49.8	mg/kg	10.02.2020 02:20		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	120	%	70-135	10.02.2020 02:20		
o-Terphenyl	84-15-1	109	%	70-135	10.02.2020 02:20		



Certificate of Analytical Results 674009

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Longview 1-44

Sample Id: **FS51**
Lab Sample Id: 674009-051

Matrix: Soil
Date Collected: 09.28.2020 12:10

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 15:02

% Moisture:
Basis: Wet Weight

Seq Number: 3138734

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.02.2020 03:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.02.2020 03:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.02.2020 03:53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.02.2020 03:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.02.2020 03:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.02.2020 03:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.02.2020 03:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.02.2020 03:53	
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.02.2020 03:53	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS52**
 Lab Sample Id: 674009-052

Matrix: Soil
 Date Collected: 09.28.2020 12:12

Date Received: 09.30.2020 16:15
 Sample Depth: 0.5 - 1.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
 Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8810	200	mg/kg	10.01.2020 23:18		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
 Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.02.2020 02:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.02.2020 02:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.02.2020 02:40	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.02.2020 02:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	10.02.2020 02:40	
o-Terphenyl	84-15-1	92	%	70-135	10.02.2020 02:40	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS52**
Lab Sample Id: 674009-052

Matrix: Soil
Date Collected: 09.28.2020 12:12

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 15:02

% Moisture:
Basis: Wet Weight

Seq Number: 3138734

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.02.2020 04:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.02.2020 04:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.02.2020 04:15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.02.2020 04:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.02.2020 04:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.02.2020 04:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.02.2020 04:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	10.02.2020 04:15	
1,4-Difluorobenzene	540-36-3	103	%	70-130	10.02.2020 04:15	

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS53**
Lab Sample Id: 674009-053

Matrix: Soil
Date Collected: 09.28.2020 12:48

Date Received: 09.30.2020 16:15
Sample Depth: 1 - 2 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4130	49.6	mg/kg	10.01.2020 23:23		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.02.2020 03:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	98.6	49.8	mg/kg	10.02.2020 03:00		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.02.2020 03:00	U	1
Total TPH	PHC635	98.6	49.8	mg/kg	10.02.2020 03:00		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	131	%	70-135	10.02.2020 03:00		
o-Terphenyl	84-15-1	119	%	70-135	10.02.2020 03:00		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS53**
Lab Sample Id: 674009-053

Matrix: Soil
Date Collected: 09.28.2020 12:48

Date Received: 09.30.2020 16:15
Sample Depth: 1 - 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 15:02

% Moisture:
Basis: Wet Weight

Seq Number: 3138734

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.02.2020 04:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.02.2020 04:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.02.2020 04:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.02.2020 04:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.02.2020 04:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.02.2020 04:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.02.2020 04:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	10.02.2020 04:38	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.02.2020 04:38	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS54**
Lab Sample Id: 674009-054

Matrix: Soil
Date Collected: 09.24.2020 16:55

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6040	49.7	mg/kg	10.01.2020 23:40		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.02.2020 03:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	503	50.0	mg/kg	10.02.2020 03:21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	53.4	50.0	mg/kg	10.02.2020 03:21		1
Total TPH	PHC635	556	50.0	mg/kg	10.02.2020 03:21		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	120	%	70-135	10.02.2020 03:21		
o-Terphenyl	84-15-1	110	%	70-135	10.02.2020 03:21		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS54**
Lab Sample Id: 674009-054

Matrix: Soil
Date Collected: 09.24.2020 16:55

Date Received: 09.30.2020 16:15
Sample Depth: 0.15 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.02.2020 01:28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.02.2020 01:28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.02.2020 01:28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.02.2020 01:28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.02.2020 01:28	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.02.2020 01:28	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.02.2020 01:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	70-130	10.02.2020 01:28	
1,4-Difluorobenzene	540-36-3	96	%	70-130	10.02.2020 01:28	

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS55**
Lab Sample Id: 674009-055

Matrix: Soil
Date Collected: 09.28.2020 16:40

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4440	49.9	mg/kg	10.01.2020 23:45		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	10.02.2020 03:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	10.02.2020 03:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	10.02.2020 03:41	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	10.02.2020 03:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	10.02.2020 03:41	
o-Terphenyl	84-15-1	100	%	70-135	10.02.2020 03:41	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS55**
Lab Sample Id: 674009-055

Matrix: Soil
Date Collected: 09.28.2020 16:40

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.02.2020 01:51	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.02.2020 01:51	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.02.2020 01:51	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.02.2020 01:51	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.02.2020 01:51	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.02.2020 01:51	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.02.2020 01:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	10.02.2020 01:51		
1,4-Difluorobenzene	540-36-3	102	%	70-130	10.02.2020 01:51		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS56**
Lab Sample Id: 674009-056

Matrix: Soil
Date Collected: 09.28.2020 15:27

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2130	49.9	mg/kg	10.01.2020 23:51		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.02.2020 04:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	57.1	50.1	mg/kg	10.02.2020 04:01		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.02.2020 04:01	U	1
Total TPH	PHC635	57.1	50.1	mg/kg	10.02.2020 04:01		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	10.02.2020 04:01	
o-Terphenyl	84-15-1	110	%	70-135	10.02.2020 04:01	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS56**
Lab Sample Id: 674009-056

Matrix: Soil
Date Collected: 09.28.2020 15:27

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.02.2020 02:13	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.02.2020 02:13	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.02.2020 02:13	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.02.2020 02:13	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.02.2020 02:13	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.02.2020 02:13	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.02.2020 02:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 02:13	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.02.2020 02:13	

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS57**
Lab Sample Id: 674009-057

Matrix: Soil
Date Collected: 09.28.2020 15:30

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3380	50.0	mg/kg	10.01.2020 23:56		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.02.2020 04:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	185	49.9	mg/kg	10.02.2020 04:21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.02.2020 04:21	U	1
Total TPH	PHC635	185	49.9	mg/kg	10.02.2020 04:21		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	10.02.2020 04:21		
o-Terphenyl	84-15-1	103	%	70-135	10.02.2020 04:21		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS57**
Lab Sample Id: 674009-057

Matrix: Soil
Date Collected: 09.28.2020 15:30

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.02.2020 02:35	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.02.2020 02:35	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.02.2020 02:35	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.02.2020 02:35	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.02.2020 02:35	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.02.2020 02:35	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.02.2020 02:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.02.2020 02:35	
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.02.2020 02:35	

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS58**
Lab Sample Id: 674009-058

Matrix: Soil
Date Collected: 09.28.2020 15:32

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8000	198	mg/kg	10.02.2020 00:02		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.02.2020 04:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.02.2020 04:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.02.2020 04:41	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.02.2020 04:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	10.02.2020 04:41	
o-Terphenyl	84-15-1	103	%	70-135	10.02.2020 04:41	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS58**
Lab Sample Id: 674009-058

Matrix: Soil
Date Collected: 09.28.2020 15:32

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.02.2020 02:58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.02.2020 02:58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.02.2020 02:58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.02.2020 02:58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.02.2020 02:58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.02.2020 02:58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.02.2020 02:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	10.02.2020 02:58	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 02:58	

Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS59**
Lab Sample Id: 674009-059

Matrix: Soil
Date Collected: 09.28.2020 15:35

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10300	198	mg/kg	10.02.2020 00:07		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	10.02.2020 05:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	88.2	50.1	mg/kg	10.02.2020 05:22		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	10.02.2020 05:22	U	1
Total TPH	PHC635	88.2	50.1	mg/kg	10.02.2020 05:22		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	10.02.2020 05:22	
o-Terphenyl	84-15-1	103	%	70-135	10.02.2020 05:22	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS59**
Lab Sample Id: 674009-059

Matrix: Soil
Date Collected: 09.28.2020 15:35

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.02.2020 03:20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.02.2020 03:20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.02.2020 03:20	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.02.2020 03:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.02.2020 03:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.02.2020 03:20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.02.2020 03:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 03:20	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.02.2020 03:20	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS60**
 Lab Sample Id: 674009-060

Matrix: Soil
 Date Collected: 09.28.2020 15:20

Date Received: 09.30.2020 16:15
 Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:09

% Moisture:
 Basis: Wet Weight

Seq Number: 3138722

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3930	50.1	mg/kg	10.02.2020 00:13		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
 Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	10.02.2020 05:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	10.02.2020 05:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	10.02.2020 05:43	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	10.02.2020 05:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.02.2020 05:43	
o-Terphenyl	84-15-1	102	%	70-135	10.02.2020 05:43	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS60**
Lab Sample Id: 674009-060

Matrix: Soil
Date Collected: 09.28.2020 15:20

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.02.2020 03:43	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.02.2020 03:43	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.02.2020 03:43	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.02.2020 03:43	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.02.2020 03:43	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.02.2020 03:43	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.02.2020 03:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 03:43	
4-Bromofluorobenzene	460-00-4	97	%	70-130	10.02.2020 03:43	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS61**
Lab Sample Id: 674009-061

Matrix: Soil
Date Collected: 09.28.2020 15:17

Date Received: 09.30.2020 16:15
Sample Depth: 0.2 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:14

% Moisture:
Basis: Wet Weight

Seq Number: 3138725

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4270	49.4	mg/kg	10.02.2020 00:46		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.02.2020 06:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.02.2020 06:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.02.2020 06:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.02.2020 06:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	10.02.2020 06:03	
o-Terphenyl	84-15-1	103	%	70-135	10.02.2020 06:03	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS61**
Lab Sample Id: 674009-061

Matrix: Soil
Date Collected: 09.28.2020 15:17

Date Received: 09.30.2020 16:15
Sample Depth: 0.2 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.02.2020 04:05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.02.2020 04:05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.02.2020 04:05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.02.2020 04:05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.02.2020 04:05	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.02.2020 04:05	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.02.2020 04:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	10.02.2020 04:05	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 04:05	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS62**
 Lab Sample Id: 674009-062

Matrix: Soil
 Date Collected: 09.28.2020 15:15

Date Received: 09.30.2020 16:15
 Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:14

% Moisture:
 Basis: Wet Weight

Seq Number: 3138725

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2390	49.9	mg/kg	10.02.2020 01:02		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
 Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.02.2020 06:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.02.2020 06:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.02.2020 06:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.02.2020 06:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	10.02.2020 06:23	
o-Terphenyl	84-15-1	100	%	70-135	10.02.2020 06:23	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS62**
Lab Sample Id: 674009-062

Matrix: Soil
Date Collected: 09.28.2020 15:15

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.02.2020 04:28	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.02.2020 04:28	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.02.2020 04:28	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.02.2020 04:28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.02.2020 04:28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.02.2020 04:28	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.02.2020 04:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 04:28	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.02.2020 04:28	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS63**
Lab Sample Id: 674009-063

Matrix: Soil
Date Collected: 09.28.2020 15:12

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:14

% Moisture:
Basis: Wet Weight

Seq Number: 3138725

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5250	50.4	mg/kg	10.02.2020 01:08		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	10.02.2020 06:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	10.02.2020 06:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	10.02.2020 06:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	10.02.2020 06:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	10.02.2020 06:43	
o-Terphenyl	84-15-1	100	%	70-135	10.02.2020 06:43	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS63**
Lab Sample Id: 674009-063

Matrix: Soil
Date Collected: 09.28.2020 15:12

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.02.2020 04:50	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.02.2020 04:50	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.02.2020 04:50	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.02.2020 04:50	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.02.2020 04:50	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.02.2020 04:50	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.02.2020 04:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 04:50	
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.02.2020 04:50	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS64**
Lab Sample Id: 674009-064

Matrix: Soil
Date Collected: 09.28.2020 16:35

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:14

% Moisture:
Basis: Wet Weight

Seq Number: 3138725

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3240	50.5	mg/kg	10.02.2020 01:13		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.02.2020 07:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	10.02.2020 07:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.02.2020 07:02	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	10.02.2020 07:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	10.02.2020 07:02	
o-Terphenyl	84-15-1	101	%	70-135	10.02.2020 07:02	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS64**
Lab Sample Id: 674009-064

Matrix: Soil
Date Collected: 09.28.2020 16:35

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.02.2020 06:08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.02.2020 06:08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.02.2020 06:08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.02.2020 06:08	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.02.2020 06:08	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.02.2020 06:08	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.02.2020 06:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.02.2020 06:08		
4-Bromofluorobenzene	460-00-4	89	%	70-130	10.02.2020 06:08		



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS65**
Lab Sample Id: 674009-065

Matrix: Soil
Date Collected: 09.28.2020 15:08

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:14

% Moisture:
Basis: Wet Weight

Seq Number: 3138725

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5900	50.5	mg/kg	10.02.2020 01:19		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	10.02.2020 07:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	130	49.9	mg/kg	10.02.2020 07:23		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	10.02.2020 07:23	U	1
Total TPH	PHC635	130	49.9	mg/kg	10.02.2020 07:23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	10.02.2020 07:23	
o-Terphenyl	84-15-1	99	%	70-135	10.02.2020 07:23	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS65**
Lab Sample Id: 674009-065

Matrix: Soil
Date Collected: 09.28.2020 15:08

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.02.2020 06:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.02.2020 06:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.02.2020 06:30	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	10.02.2020 06:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.02.2020 06:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.02.2020 06:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.02.2020 06:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	10.02.2020 06:30	
1,4-Difluorobenzene	540-36-3	98	%	70-130	10.02.2020 06:30	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS66**
Lab Sample Id: 674009-066

Matrix: Soil
Date Collected: 09.28.2020 16:32

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:14

% Moisture:
Basis: Wet Weight

Seq Number: 3138725

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4170	49.8	mg/kg	10.02.2020 01:35		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.02.2020 07:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	10.02.2020 07:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.02.2020 07:43	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	10.02.2020 07:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	10.02.2020 07:43	
o-Terphenyl	84-15-1	101	%	70-135	10.02.2020 07:43	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS66**
Lab Sample Id: 674009-066

Matrix: Soil
Date Collected: 09.28.2020 16:32

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.02.2020 06:53	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.02.2020 06:53	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.02.2020 06:53	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.02.2020 06:53	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.02.2020 06:53	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.02.2020 06:53	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.02.2020 06:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.02.2020 06:53	
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.02.2020 06:53	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS67**
 Lab Sample Id: 674009-067

Matrix: Soil
 Date Collected: 09.28.2020 15:05

Date Received: 09.30.2020 16:15
 Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 16:14

% Moisture:
 Basis: Wet Weight

Seq Number: 3138725

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1140	49.8	mg/kg	10.02.2020 01:40		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

Analyst: DTH

Date Prep: 10.01.2020 17:30

% Moisture:
 Basis: Wet Weight

Seq Number: 3138697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	10.02.2020 08:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	94.2	49.8	mg/kg	10.02.2020 08:04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	10.02.2020 08:04	U	1
Total TPH	PHC635	94.2	49.8	mg/kg	10.02.2020 08:04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	10.02.2020 08:04	
o-Terphenyl	84-15-1	100	%	70-135	10.02.2020 08:04	



Certificate of Analytical Results 674009

WSP USA, Dallas, TX

Longview 1-44

Sample Id: **FS67**
Lab Sample Id: 674009-067

Matrix: Soil
Date Collected: 09.28.2020 15:05

Date Received: 09.30.2020 16:15
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 10.01.2020 17:05

% Moisture:
Basis: Wet Weight

Seq Number: 3138736

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.02.2020 07:15	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.02.2020 07:15	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.02.2020 07:15	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.02.2020 07:15	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.02.2020 07:15	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.02.2020 07:15	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.02.2020 07:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	10.02.2020 07:15		
1,4-Difluorobenzene	540-36-3	100	%	70-130	10.02.2020 07:15		

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



WSP USA

Longview 1-44

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138716

Matrix: Solid

Prep Method: E300P

MB Sample Id: 7712530-1-BLK

LCS Sample Id: 7712530-1-BKS

Date Prep: 10.01.2020

LCSD Sample Id: 7712530-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	249	100	249	100	90-110	0	20	mg/kg	10.01.2020 15:21	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138720

Matrix: Solid

Prep Method: E300P

MB Sample Id: 7712531-1-BLK

LCS Sample Id: 7712531-1-BKS

Date Prep: 10.01.2020

LCSD Sample Id: 7712531-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	248	99	250	100	90-110	1	20	mg/kg	10.01.2020 18:22	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138722

Matrix: Solid

Prep Method: E300P

MB Sample Id: 7712533-1-BLK

LCS Sample Id: 7712533-1-BKS

Date Prep: 10.01.2020

LCSD Sample Id: 7712533-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	249	100	250	100	90-110	0	20	mg/kg	10.01.2020 21:34	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138725

Matrix: Solid

Prep Method: E300P

MB Sample Id: 7712534-1-BLK

LCS Sample Id: 7712534-1-BKS

Date Prep: 10.01.2020

LCSD Sample Id: 7712534-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	248	99	250	100	90-110	1	20	mg/kg	10.02.2020 00:35	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138716

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 674009-001

MS Sample Id: 674009-001 S

Date Prep: 10.01.2020

MSD Sample Id: 674009-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3750	201	3950	100	3950	99	90-110	0	20	mg/kg	10.01.2020 15:38	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138716

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 674009-011

MS Sample Id: 674009-011 S

Date Prep: 10.01.2020

MSD Sample Id: 674009-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4970	200	5180	105	5180	104	90-110	0	20	mg/kg	10.01.2020 16:55	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WSP USA

Longview 1-44

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138720

Parent Sample Id: 674009-021

Matrix: Soil

MS Sample Id: 674009-021 S

Prep Method: E300P

Date Prep: 10.01.2020

MSD Sample Id: 674009-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1620	199	1800	90	1800	91	90-110	0	20	mg/kg	10.01.2020 18:39	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138720

Parent Sample Id: 674009-031

Matrix: Soil

MS Sample Id: 674009-031 S

Prep Method: E300P

Date Prep: 10.01.2020

MSD Sample Id: 674009-031 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2960	202	3150	94	3170	106	90-110	1	20	mg/kg	10.01.2020 19:55	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138722

Parent Sample Id: 674009-041

Matrix: Soil

MS Sample Id: 674009-041 S

Prep Method: E300P

Date Prep: 10.01.2020

MSD Sample Id: 674009-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1170	201	1380	104	1350	90	90-110	2	20	mg/kg	10.01.2020 21:50	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138722

Parent Sample Id: 674009-051

Matrix: Soil

MS Sample Id: 674009-051 S

Prep Method: E300P

Date Prep: 10.01.2020

MSD Sample Id: 674009-051 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9440	202	9660	109	9620	91	90-110	0	20	mg/kg	10.01.2020 23:07	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138725

Parent Sample Id: 674009-061

Matrix: Soil

MS Sample Id: 674009-061 S

Prep Method: E300P

Date Prep: 10.01.2020

MSD Sample Id: 674009-061 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4270	203	4460	94	4460	94	90-110	0	20	mg/kg	10.02.2020 00:51	

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3138725

Parent Sample Id: 674033-004

Matrix: Soil

MS Sample Id: 674033-004 S

Prep Method: E300P

Date Prep: 10.01.2020

MSD Sample Id: 674033-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	614	199	810	98	810	98	90-110	0	20	mg/kg	10.02.2020 02:08	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WSP USA

Longview 1-44

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138644

MB Sample Id: 7712463-1-BLK

Matrix: Solid

LCS Sample Id: 7712463-1-BKS

Prep Method: SW8015P

Date Prep: 10.01.2020

LCSD Sample Id: 7712463-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	986	99	984	98	70-135	0	35	mg/kg	10.01.2020 11:07	
Diesel Range Organics (DRO)	<50.0	1000	1100	110	1110	111	70-135	1	35	mg/kg	10.01.2020 11:07	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	93		119		118		70-135	%	10.01.2020 11:07			
o-Terphenyl	86		110		114		70-135	%	10.01.2020 11:07			

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138645

MB Sample Id: 7712464-1-BLK

Matrix: Solid

LCS Sample Id: 7712464-1-BKS

Prep Method: SW8015P

Date Prep: 10.01.2020

LCSD Sample Id: 7712464-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1080	108	1080	108	70-135	0	35	mg/kg	10.01.2020 11:07	
Diesel Range Organics (DRO)	<50.0	1000	1140	114	1120	112	70-135	2	35	mg/kg	10.01.2020 11:07	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	110		125		127		70-135	%	10.01.2020 11:07			
o-Terphenyl	99		111		109		70-135	%	10.01.2020 11:07			

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138687

MB Sample Id: 7712495-1-BLK

Matrix: Solid

LCS Sample Id: 7712495-1-BKS

Prep Method: SW8015P

Date Prep: 10.01.2020

LCSD Sample Id: 7712495-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	904	90	946	95	70-135	5	35	mg/kg	10.01.2020 23:58	
Diesel Range Organics (DRO)	<50.0	1000	963	96	978	98	70-135	2	35	mg/kg	10.01.2020 23:58	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	96		110		131		70-135	%	10.01.2020 23:58			
o-Terphenyl	88		98		97		70-135	%	10.01.2020 23:58			

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WSP USA

Longview 1-44

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138697

MB Sample Id: 7712513-1-BLK

Matrix: Solid

LCS Sample Id: 7712513-1-BKS

Prep Method: SW8015P

Date Prep: 10.01.2020

LCSD Sample Id: 7712513-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1040	104	1030	103	70-135	1	35	mg/kg	10.02.2020 00:19	
Diesel Range Organics (DRO)	<50.0	1000	1070	107	1070	107	70-135	0	35	mg/kg	10.02.2020 00:19	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		127		124		70-135	%	10.02.2020 00:19
o-Terphenyl	104		103		106		70-135	%	10.02.2020 00:19

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138644

Matrix: Solid

MB Sample Id: 7712463-1-BLK

Prep Method: SW8015P

Date Prep: 10.01.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.01.2020 16:30	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138645

Matrix: Solid

MB Sample Id: 7712464-1-BLK

Prep Method: SW8015P

Date Prep: 10.01.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.01.2020 11:47	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138687

Matrix: Solid

MB Sample Id: 7712495-1-BLK

Prep Method: SW8015P

Date Prep: 10.01.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.02.2020 00:39	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138697

Matrix: Solid

MB Sample Id: 7712513-1-BLK

Prep Method: SW8015P

Date Prep: 10.01.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	10.01.2020 23:58	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WSP USA

Longview 1-44

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138644

Parent Sample Id: 674009-001

Matrix: Soil

MS Sample Id: 674009-001 S

Prep Method: SW8015P

Date Prep: 10.01.2020

MSD Sample Id: 674009-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	940	94	948	95	70-135	1	35	mg/kg	10.01.2020 12:27	
Diesel Range Organics (DRO)	60.2	999	1110	105	1080	102	70-135	3	35	mg/kg	10.01.2020 12:27	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		117		70-135	%	10.01.2020 12:27
o-Terphenyl	104		103		70-135	%	10.01.2020 12:27

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138645

Parent Sample Id: 674009-002

Matrix: Soil

MS Sample Id: 674009-002 S

Prep Method: SW8015P

Date Prep: 10.01.2020

MSD Sample Id: 674009-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1130	113	1100	111	70-135	3	35	mg/kg	10.01.2020 12:27	
Diesel Range Organics (DRO)	100	998	1260	116	1210	112	70-135	4	35	mg/kg	10.01.2020 12:27	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	134		133		70-135	%	10.01.2020 12:27
o-Terphenyl	116		111		70-135	%	10.01.2020 12:27

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138687

Parent Sample Id: 674009-030

Matrix: Soil

MS Sample Id: 674009-030 S

Prep Method: SW8015P

Date Prep: 10.01.2020

MSD Sample Id: 674009-030 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	908	91	951	96	70-135	5	35	mg/kg	10.02.2020 01:19	
Diesel Range Organics (DRO)	<49.8	996	975	98	982	99	70-135	1	35	mg/kg	10.02.2020 01:19	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		115		70-135	%	10.02.2020 01:19
o-Terphenyl	98		96		70-135	%	10.02.2020 01:19

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WSP USA

Longview 1-44

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138697

Parent Sample Id: 674009-049

Matrix: Soil

MS Sample Id: 674009-049 S

Prep Method: SW8015P

Date Prep: 10.01.2020

MSD Sample Id: 674009-049 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1030	103	1030	102	70-135	0	35	mg/kg	10.02.2020 01:19	
Diesel Range Organics (DRO)	144	997	1160	102	1160	101	70-135	0	35	mg/kg	10.02.2020 01:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		127		70-135	%	10.02.2020 01:19
o-Terphenyl	106		104		70-135	%	10.02.2020 01:19

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138586

MB Sample Id: 7712426-1-BLK

Matrix: Solid

LCS Sample Id: 7712426-1-BKS

Prep Method: SW5035A

Date Prep: 09.30.2020

LCSD Sample Id: 7712426-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.103	103	70-130	2	35	mg/kg	09.30.2020 22:59	
Toluene	<0.00200	0.100	0.0984	98	0.0997	100	70-130	1	35	mg/kg	09.30.2020 22:59	
Ethylbenzene	<0.00200	0.100	0.0914	91	0.0927	93	71-129	1	35	mg/kg	09.30.2020 22:59	
m,p-Xylenes	<0.00400	0.200	0.183	92	0.186	93	70-135	2	35	mg/kg	09.30.2020 22:59	
o-Xylene	<0.00200	0.100	0.0917	92	0.0928	93	71-133	1	35	mg/kg	09.30.2020 22:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		98		98		70-130	%	09.30.2020 22:59
4-Bromofluorobenzene	88		85		86		70-130	%	09.30.2020 22:59

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138642

MB Sample Id: 7712466-1-BLK

Matrix: Solid

LCS Sample Id: 7712466-1-BKS

Prep Method: SW5035A

Date Prep: 10.01.2020

LCSD Sample Id: 7712466-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.111	111	0.0998	100	70-130	11	35	mg/kg	10.01.2020 11:41	
Toluene	<0.00200	0.100	0.107	107	0.0957	96	70-130	11	35	mg/kg	10.01.2020 11:41	
Ethylbenzene	<0.00200	0.100	0.0997	100	0.0888	89	71-129	12	35	mg/kg	10.01.2020 11:41	
m,p-Xylenes	<0.00400	0.200	0.202	101	0.179	90	70-135	12	35	mg/kg	10.01.2020 11:41	
o-Xylene	<0.00200	0.100	0.0989	99	0.0883	88	71-133	11	35	mg/kg	10.01.2020 11:41	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		98		97		70-130	%	10.01.2020 11:41
4-Bromofluorobenzene	89		90		89		70-130	%	10.01.2020 11:41

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WSP USA

Longview 1-44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138643

Matrix: Solid

Prep Method: SW5035A

Date Prep: 10.01.2020

MB Sample Id: 7712467-1-BLK

LCS Sample Id: 7712467-1-BKS

LCSD Sample Id: 7712467-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.102	102	70-130	3	35	mg/kg	10.01.2020 11:20	
Toluene	<0.00200	0.100	0.0999	100	0.0936	94	70-130	7	35	mg/kg	10.01.2020 11:20	
Ethylbenzene	<0.00200	0.100	0.104	104	0.100	100	71-129	4	35	mg/kg	10.01.2020 11:20	
m,p-Xylenes	<0.00400	0.200	0.213	107	0.203	102	70-135	5	35	mg/kg	10.01.2020 11:20	
o-Xylene	<0.00200	0.100	0.105	105	0.101	101	71-133	4	35	mg/kg	10.01.2020 11:20	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	103		102		98		70-130			%	10.01.2020 11:20	
4-Bromofluorobenzene	113		108		105		70-130			%	10.01.2020 11:20	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138734

Matrix: Solid

Prep Method: SW5035A

Date Prep: 10.01.2020

MB Sample Id: 7712468-1-BLK

LCS Sample Id: 7712468-1-BKS

LCSD Sample Id: 7712468-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.104	104	0.100	100	70-130	4	35	mg/kg	10.01.2020 23:34	
Toluene	<0.00200	0.100	0.0994	99	0.0938	94	70-130	6	35	mg/kg	10.01.2020 23:34	
Ethylbenzene	<0.00200	0.100	0.0986	99	0.0971	97	71-129	2	35	mg/kg	10.01.2020 23:34	
m,p-Xylenes	<0.00400	0.200	0.203	102	0.196	98	70-135	4	35	mg/kg	10.01.2020 23:34	
o-Xylene	<0.00200	0.100	0.100	100	0.103	103	71-133	3	35	mg/kg	10.01.2020 23:34	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	105		102		100		70-130			%	10.01.2020 23:34	
4-Bromofluorobenzene	118		113		109		70-130			%	10.01.2020 23:34	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138736

Matrix: Solid

Prep Method: SW5035A

Date Prep: 10.01.2020

MB Sample Id: 7712469-1-BLK

LCS Sample Id: 7712469-1-BKS

LCSD Sample Id: 7712469-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.113	113	0.116	116	70-130	3	35	mg/kg	10.01.2020 23:26	
Toluene	<0.00200	0.100	0.108	108	0.112	112	70-130	4	35	mg/kg	10.01.2020 23:26	
Ethylbenzene	<0.00200	0.100	0.0992	99	0.103	103	71-129	4	35	mg/kg	10.01.2020 23:26	
m,p-Xylenes	<0.00400	0.200	0.200	100	0.208	104	70-135	4	35	mg/kg	10.01.2020 23:26	
o-Xylene	<0.00200	0.100	0.0994	99	0.103	103	71-133	4	35	mg/kg	10.01.2020 23:26	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	99		98		98		70-130			%	10.01.2020 23:26	
4-Bromofluorobenzene	88		88		89		70-130			%	10.01.2020 23:26	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WSP USA

Longview 1-44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138586

Parent Sample Id: 674002-006

Matrix: Soil

MS Sample Id: 674002-006 S

Prep Method: SW5035A

Date Prep: 09.30.2020

MSD Sample Id: 674002-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.103	103	0.109	109	70-130	6	35	mg/kg	09.30.2020 23:44	
Toluene	<0.00200	0.100	0.0950	95	0.116	116	70-130	20	35	mg/kg	09.30.2020 23:44	
Ethylbenzene	<0.00200	0.100	0.0785	79	0.108	108	71-129	32	35	mg/kg	09.30.2020 23:44	
m,p-Xylenes	<0.00401	0.200	0.157	79	0.205	102	70-135	27	35	mg/kg	09.30.2020 23:44	
o-Xylene	<0.00200	0.100	0.0788	79	0.107	107	71-133	30	35	mg/kg	09.30.2020 23:44	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		92		70-130	%	09.30.2020 23:44
4-Bromofluorobenzene	91		94		70-130	%	09.30.2020 23:44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138642

Parent Sample Id: 674009-014

Matrix: Soil

MS Sample Id: 674009-014 S

Prep Method: SW5035A

Date Prep: 10.01.2020

MSD Sample Id: 674009-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.118	118	0.112	112	70-130	5	35	mg/kg	10.01.2020 12:26	
Toluene	<0.00200	0.0998	0.111	111	0.104	104	70-130	7	35	mg/kg	10.01.2020 12:26	
Ethylbenzene	<0.00200	0.0998	0.0965	97	0.0887	89	71-129	8	35	mg/kg	10.01.2020 12:26	
m,p-Xylenes	<0.00399	0.200	0.193	97	0.176	88	70-135	9	35	mg/kg	10.01.2020 12:26	
o-Xylene	<0.00200	0.0998	0.0952	95	0.0867	87	71-133	9	35	mg/kg	10.01.2020 12:26	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		99		70-130	%	10.01.2020 12:26
4-Bromofluorobenzene	89		92		70-130	%	10.01.2020 12:26

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138643

Parent Sample Id: 674026-001

Matrix: Soil

MS Sample Id: 674026-001 S

Prep Method: SW5035A

Date Prep: 10.01.2020

MSD Sample Id: 674026-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.0950	96	0.0939	94	70-130	1	35	mg/kg	10.01.2020 13:47	
Toluene	<0.00199	0.0994	0.0912	92	0.0893	90	70-130	2	35	mg/kg	10.01.2020 13:47	
Ethylbenzene	<0.00199	0.0994	0.0930	94	0.0940	94	71-129	1	35	mg/kg	10.01.2020 13:47	
m,p-Xylenes	<0.00398	0.199	0.192	96	0.189	95	70-135	2	35	mg/kg	10.01.2020 13:47	
o-Xylene	<0.00199	0.0994	0.0943	95	0.0964	97	71-133	2	35	mg/kg	10.01.2020 13:47	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		100		70-130	%	10.01.2020 13:47
4-Bromofluorobenzene	108		114		70-130	%	10.01.2020 13:47

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



WSP USA

Longview 1-44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138734

Parent Sample Id: 674009-045

Matrix: Soil

MS Sample Id: 674009-045 S

Prep Method: SW5035A

Date Prep: 10.01.2020

MSD Sample Id: 674009-045 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.0887	90	0.0932	94	70-130	5	35	mg/kg	10.02.2020 10:04	
Toluene	<0.00198	0.0990	0.0824	83	0.0879	89	70-130	6	35	mg/kg	10.02.2020 10:04	
Ethylbenzene	<0.00198	0.0990	0.0864	87	0.0913	92	71-129	6	35	mg/kg	10.02.2020 10:04	
m,p-Xylenes	<0.00396	0.198	0.173	87	0.180	91	70-135	4	35	mg/kg	10.02.2020 10:04	
o-Xylene	<0.00198	0.0990	0.0880	89	0.0943	95	71-133	7	35	mg/kg	10.02.2020 10:04	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		98		70-130	%	10.02.2020 10:04
4-Bromofluorobenzene	107		105		70-130	%	10.02.2020 10:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138736

Parent Sample Id: 674009-054

Matrix: Soil

MS Sample Id: 674009-054 S

Prep Method: SW5035A

Date Prep: 10.01.2020

MSD Sample Id: 674009-054 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.110	111	0.120	120	70-130	9	35	mg/kg	10.02.2020 09:52	
Toluene	<0.00198	0.0990	0.103	104	0.116	116	70-130	12	35	mg/kg	10.02.2020 09:52	
Ethylbenzene	<0.00198	0.0990	0.121	122	0.115	115	71-129	5	35	mg/kg	10.02.2020 09:52	
m,p-Xylenes	<0.00396	0.198	0.196	99	0.213	107	70-135	8	35	mg/kg	10.02.2020 09:52	
o-Xylene	<0.00198	0.0990	0.0964	97	0.104	104	71-133	8	35	mg/kg	10.02.2020 09:52	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		97		70-130	%	10.02.2020 09:52
4-Bromofluorobenzene	99		91		70-130	%	10.02.2020 09:52

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Chain of Custody

Work Order No: 1674069

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA LAMM BACH
Company Name:	LT Environmental	Company Name:	WRX ENERGY
Address:	3302 NORTH A STREET, BLD. 1	Address:	5315 BUENA VISTA DR
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD NM 88220
Phone:	(281) 762-2329	Email:	jhernandez@lten.com + abayers@lten.com

Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting Level:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADAPT ☐ Other: ☐

Project Name:	LONGVIEW 1-44	Turn Around	☒
Project Number:	03462803	Routine	☒
Project Location:	EDDY COUNTY	Rush:	
Sampler's Name:	ANNA BYERS	Due Date:	
PO #:	spill date 9/13/20	Quote #:	

SAMPLE RECEIPT			
Temperature (°C):	1.8 / 1.6	Temp Blank:	☒ Yes ☐ No
Received intact:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No
Cooler Custody Seals:	☒ Yes ☐ No	Thermometer ID	711M007
Sample Custody Seals:	☒ Yes ☐ No	Correction Factor:	-0.2
		Total Containers:	07

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FS01		S	9/24/20	1020	0.15'	1	BTEX (EPA 8013)	MeOH: Me	
FS02			9/24/20	1035	0.15'	1	TPH (EPA 8015)	None: NO	
FS03			9/24/20	1045	0.15'	1	Chloride (EPA 8060)	HNO3: HN	
FS04			9/24/20	1515	0.2-1.5'	1		H2SO4: H2	
FS05			9/24/20	1100	0.15'	1		HCL: HL	
FS06			9/24/20	1053	0.15'	1		NaOH: Na	
FS07			9/24/20	1110	0.15'	1		Zn Acetate + NaOH: Zn	
FS08			9/24/20	1205	0.15'	1			
FS09			9/24/20	1210	0.15'	1			
FS10			9/24/20	1215	0.15'	1			

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

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Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Anne Byers

9/30/20 16:15



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crashpad, NM (432) 704-5440
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Page 4 of 1

Chain of Custody

Work Order No: 674000

Project Manager:	Joseph Hernandez	Bill to: (if different)	Lynda Laumbach
Company Name:	LT Environmental	Company Name:	WPX Energy
Address:	3330 North A Street Bldg 1	Address:	5315 Buena Vista Dr
City, State ZIP:	Midland TX 79705	City, State ZIP:	Carlsbad NM 88224
Phone:	(281) 702-2329	Email:	jhernandez@ltenv.com & albjones@ltenv.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other: _____

Project Name:	Longview 1-44	Turn Amount	
Project Number:	034620034	Routine	☒
Project Location	Eddy County	Rush:	
Sampler's Name:	Arnold Byers	Due Date:	
PO #:	spilldate 9/13/04	Quote #:	

SAMPLE RECEIPT	Temp Blank:		Yes	No	Wet Ice:	Yes	No
Temperature ("C.): Received intact: 	Yes ☒	No ☒ NA					
Cooler Custody Seats:	Yes	No	N/A		Correction Factor:		
Sample Custody Seals:	Yes	No	N/A		Total Containers:		

[illegible]

Total 200.7 / 6010		200.8 / 6020:		1631 / 245.1 / 7470 / 7471 : Hg	
Circle Method(s) and Metal(s) to be analyzed					
TC1P / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U					
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Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1 Dave Byers				9/30/20 16:15	
2		4		6	
3		6			
5					
Relinquished by: (Signature)		Received by: (Signature)		Date/Time	



Chain of Custody

Work Order No: LE74009

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0330 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 335-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-5701

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Page 3 of 7

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA LAMBACH
Company Name:	LT ENVIRONMENTAL	Company Name:	WPR ENERGY
Address:	3308 NORTH ST, BLDG 1	Address:	5215 BUENA VISTA DR
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	(281) 762-2329	Email:	jherandez@xenco.com lalambach@wpr.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:

ANALYSIS REQUEST

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	Preservative Codes
FS21		S	9/29/20	1312	0.5'	1		MeOH: Me None: NO HNO3: HN H2SO4: H2 HCL: HL NaOH: Na Zn Acetate+ NaOH: Zn
FS22		S	9/29/20	1318	0.5'	1		
FS23		S	9/29/20	1320	0.5'	1		
FS24		S	9/29/20	1323	0.5'	1		
FS25		S	9/29/20	1328	0.5'	1		
FS26		S	9/29/20	1330	0.5'	1		
FS27		S	9/29/20	1330	0.5'	1		
FS28		S	9/29/20	1335	0.5'	1		
FS29		S	9/29/20	1338	0.5'	1		
FS30		S	9/29/20	1357	0.5'	1		

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

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Date/Time

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Date/Time

Relinquished by: (Signature)
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 Date/Time

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 Received by: (Signature)
 Date/Time

2

4

6



Chain of Custody

Work Order No: 1674609

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 688-6701

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Page 4 of 7

Project Manager:	Joseph Hernandez	Bill to: (if different)	Lynada Leunbach
Company Name:	LT Environmental	Company Name:	WPX Energy
Address:	3300 N A ST, Bldg 1	Address:	5315 Buena Vista Dr
City, State ZIP:	MIDLAND TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(281) 702-2329	Email:	jhernandez@wpenergy.com
Project Name:	Longview 1-44	Turn Around	
Project Number:	084820036	Pres. Code	
Project Location:	Eddy County	Routine	☒
Sampler's Name:	Anna Byers	Rush:	
PO #: spill date 9/13/20		Due Date:	

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level: I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADAPT ☐ Other:

Temperature (°C):	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Received Intact:	Yes	No	Thermometer ID			
Cooler Custody Seals:	Yes	No	Correction Factor:			
Sample Custody Seals:	Yes	No	Total Containers:			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FS31		S	9/28/20	1052	0.5-1'	1	BTEX (EPA 8021B)	MeOH: Me	
FS32			9/28/20	1548	1'	1	Chloride (EPA 300.0)	None: NO	
FS33				1546	1'	1	TPH (EPA 8015)	HNO3: HN	
FS34				1542	1'	1		H2SO4: H2	
FS35				1546	1-2.5'	1		HCL: HL	
FS36				1250	1'	1		NaOH: Na	
FS37				1244	1'	1		Zn Acetate+ NaOH: Zn	
FS38			9/29/20	1502	0.3'	1			
FS39			9/24/20	1430	0.15'	1			
FS40			9/24/20	1434	0.15-0.2'	1			

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Anna Byers

9/30/20 16:15

2



Chain of Custody

Work Order No: 1674609

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crystal, NM (432) 704-5440
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 889-6701

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Page 5 of 7

Project Manager:	JOSEPH HERNADEZ	Bill to: (if different)	LYNDA LAUMBACH
Company Name:	LEUVI-PEMUNTA	Company Name:	WRX ENERGY
Address:	3800 N A ST, Bldg 1	Address:	5315 BUENA VISTA DR
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	(817) 782-2329	Email:	obeyes@leu.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Name:	Leuvi-1-44	Turn Around	
Project Number:	081820036	Routine	☒
Project Location:	EDDY LOUIN	Rush:	
Sampler's Name:	ANNA BYERS	Due Date:	
PO #:	splitdate 9/13/20	Quote #:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):						
Received Intact:	Yes	No		Thermometer ID:		
Cooler Custody Seals:	Yes	No		Correction Factor:		
Sample Custody Seals:	Yes	No		Total Containers:		

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FS41		S	9/24/20	1437	0.15'	1	BTEX (EPA 8021B)	MeOH: Me	
FS42			9/24/20	1440	0.15-0.5'	1	TPH (EPA 8015)	None: NO	
FS43			9/28/20	1054	0.5-1'	1	Chloride (EPA 3000)	HNO3: HN	
FS44			9/28/20	1312	0.5-1'	1		H2SO4: H2	
FS45			9/24/20	1448	0.15'	1		HCL: HL	
FS46			9/24/20	1450	0.15-0.5'	1		NaOH: Na	
FS47			9/28/20	1055	0.5'	1		Zn Acetate+ NaOH: Zn	
FS48				1245	0.5-1'	1			
FS49				1247		1			
FS50				1209		1			

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Ann Lopez</i>	<i>[Signature]</i>	9/30/20 16:15			



Chain of Custody

Work Order No: 1674009

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Corsabad, NM (432) 704-5440
 Phoenix, AZ (480) 365-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Page 6 of 7

Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA LAMMBACH
Company Name:	LT ENVIRONMENTAL	Company Name:	WPX ENERGY
Address:	3308 N A ST, BLDG 1	Address:	5315 BUENA VISTA DR
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CORSABAD, NM 88220
Phone:	(281) 702-2329	Email:	ambars@xenco.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Name:	LONGVIEW 1-44	Turn Around	☒
Project Number:	034820036	Routine	☒
Project Location:	EDDY COUNTY	Rush:	
Sample's Name:	ANNA 8YEPS	Due Date:	
PO #:	spill date 9/13/20	Quote #:	

SAMPLE RECEIPT				Thermometer ID			
Temperature (°C):		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Received Intact:	Yes	No					
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:			
Sample Custody Seals:	Yes	No	N/A	Total Containers:			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	ANALYSIS REQUEST											
FS51		S	9/28/20	12:10	0.5-1'	1	BTEX (EPA 8021B)										
FS52				12:12	0.5-1.5'	1	TPH (EPA 8015)										
FS53				08/12/20	1-2'	1	Chloride (EPA 300.0)										
FS54			9/24/20	16:55	0.5-0.5'	1											
FS55			9/28/20	16:40	0.5'	1											
FS56				15:27	0.5'	1											
FS57				15:30	0.5'	1											
FS58				15:32	0.5'	1											
FS59				15:35	0.5-1'	1											
FS60				15:24	0.5'	1											

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>June Hye</i>	<i>[Signature]</i>	9/30/20 16:15			



Chain of Custody

Work Order No: 1674009

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crashtad, NM (432) 704-5440
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Project Manager:	JOSEPH HERNANDEZ	Bill to: (if different)	LYNDA LAUMBACH
Company Name:	IT ENVIRONMENTAL	Company Name:	WRX ENERGY
Address:	3308 N A ST, BLDG 1	Address:	5315 BUENA VISTA DR
City, State ZIP:	MIDLAND, TX 79705	City, State ZIP:	CARLSBAD, NM 88220
Phone:	(281) 702-2329	Email:	lynda@wrx.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Name:	LONGVIEW - 44	Turn Around	
Project Number:	034820030	Pre-Code	
Project Location:	EDDY COUNTY	Rush:	
Sampler's Name:	ANNA BYERS	Due Date:	
PO #:	Spill date 9/13/20	Quote #:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	Yes	No	Thermometer ID			
Received Intact:	Yes	No	Correction Factor:			
Cooler Custody Seals:	Yes	No	Total Containers:			
Sample Custody Seals:	Yes	No				

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FSk1	3	9/20/20	1517	0.2-0.5'	1		BTEX (EPA 8021B)	MeOH: Me	
FSk2			1515	0.5'	1		TPH (EPA 8015)	None: NO	
FSk3			1512	0.5-1'	1		Chloride (EPA 300.0)	HNO3: HN	
FSk4			1635	0.5'	1			H2SO4: H2	
FSk5			1508	0.5'	1			HCL: HL	
FSk6			1632	0.5'	1			NaOH: Na	
FSk7			1505	0.5'	1			Zn Acetate+ NaOH: Zn	

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		9/20/20 16:15			

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 09.30.2020 04.15.00 PM

Work Order #: 674009

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 09.30.2020

Checklist reviewed by:



Jessica Kramer

Date: 10.02.2020

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 11296

CONDITIONS OF APPROVAL

Operator: WPX ENERGY PERMIAN, LLC 3500 One Williams Center Tulsa, OK74172			OGRID: 246289	Action Number: 11296	Action Type: C-141
OCD Reviewer			Condition		
chensley			None		