

WSP USA

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

October 12, 2021

District I New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

Re: Remediation Work Plan

Battle Ax Water Well C-03942-POD1 (32.178199, -103.440470)

Incident Number NAPP2120869635

Lea County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of ConocoPhillips Company (COP), presents the following Remediation Work Plan detailing remediation activities completed to date and proposed additional remedial actions to address the impacted soil resulting from a release at the Water Well C-03942-POD1 (Site). The Site (32.178199, -103.440470) is located in Unit B, Section 35, Township 24 South, Range 34 East, in Lea County, New Mexico (Figure 1).

RELEASE BACKGROUND

On July 26, 2021, an inactive water well was found to be releasing fluids due to artesian pressure, which resulted in the release of approximately 150 barrels (bbls) of fluid onto the ground surface. The release flowed into the adjacent pasture and along the side of Battle Ax Road covering an approximate 5,204 square-foot area. Approximately 130 bbls of free-standing fluid were recovered. Since the date of discovery, an additional 200 bbls of fluid were recovered from the actively flowing well bore and transferred directly into a containment tank, then transported for proper disposal. The release is no longer active. The New Mexico Office of the State Engineer (NMOSE) directed COP not to take any action to plug or cap the well until NMOSE has completed an evaluation.

COP reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on July 27, 2021. The release was assigned Incident Number NAPP2120869635.

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). Depth to groundwater at the Site is estimated to greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. Although the release location is a



groundwater well, WSP is referencing the next nearest well to estimate depth to groundwater. The nearest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321025103263601, located approximately 530 feet northwest of the Site. The groundwater well has a depth to groundwater of approximately 224 feet bgs and an unknown total depth. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is an intermittent stream located approximately 1.48 miles southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is not within a 100-year floodplain or overlying a subsurface mine. The Site is not located within an area underlain by unstable geology (low potential karst designation area). The Site is located less than 1,000 feet to a freshwater well. The Site receptors are identified on Figure 1.

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): 100 mg/kg

Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On July 28, 2021, WSP personnel inspected the Site to evaluate the release extent and collect preliminary assessment soil samples based on visual observations and information provided by COP personnel. WSP personnel collected four preliminary soil samples (SS01 through SS04) within the release extent from a depth of ground surface to 0.5 feet bgs. The release extent and preliminary soil sample locations were mapped using a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation of the release area is included as Attachment 2.

The preliminary soil samples were screened for volatile aromatic hydrocarbons and chloride using a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Each soil sample was placed directly into a pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis, and immediately placed on ice. The samples were transported to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, at or



below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021B, TPH by EPA Method 8015M/D, and chloride by EPA Method 300.0.

Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were compliant with the Closure Criteria in preliminary soil samples SS02 through SS04; TPH concentrations exceeded the Closure Criteria in preliminary soil sample SS01. Laboratory analytical results indicated chloride concentrations exceeded the Closure Criteria in preliminary soil samples SS01 through SS04. Visible surface staining was observed within the release extent. Based on the approximate unrecovered volume of fluid (20 bbls), visible staining, and laboratory analytical results for the preliminary soil samples, further site assessment activities were warranted.

DELINEATION SOIL SAMPLING ACTIVITIES

WSP personnel returned to the Site on August 16, 2021, to conduct a subsurface investigation. Potholes PH01 through PH06 were advanced via trackhoe within the release extent to delineate the vertical extent of impacted soil. The potholes were advanced to depths ranging from 1-foot to 16 feet bgs (the maximum reach of the trackhoe). Discrete delineation soil samples were collected from potholes PH01 through PH06 from depths ranging from 1-foot to 16 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach© chloride QuanTab© test strips, respectively. Two delineation soil samples were submitted for laboratory analysis from each pothole; the sample with highest field screening result and the sample from the final depth of the pothole. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. Due to depth limitations of the trackhoe, a drill rig was scheduled to complete additional vertical delineation.

WSP personnel returned to the Site on September 8, 2021 to complete additional lateral and vertical delineation of impacted soil. Surface samples SS05 through SS10 were collected from a depth of ground surface to 0.5 feet bgs to confirm the lateral extent of the surface release along Battle Ax Road. Boreholes BH01 through BH05 were advanced via drill rig to a depth of 20 feet bgs within and around the release extent to complete delineation of the lateral and vertical extent of impacted soil. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation pothole and borehole soil samples were collected, handled, and analyzed as described above and submitted to Eurofins in Carlsbad, New Mexico. The delineation soil sample locations are depicted on Figure 3.

SOIL ANALYTICAL RESULTS

No benzene, BTEX, or TPH was detected in the majority of surface samples and delineation samples and only one soil sample exceeded NMOCD Table 1 Closure Criteria for TPH (SS01).



Elevated chloride concentrations were detected in surface and subsurface samples collected within the release footprint. Lateral delineation soil samples collected from the surface and subsurface were compliant with the Closure Criteria. Additionally, the terminal sample in each pothole and borehole was below 600 mg/kg for chloride, except for pothole PH02. Vertical delineation at the pothole PH02 location was achieved with a sample collected from a depth of 20 feet from subsequent borehole BH01.

Based on the laboratory analytical results, the chloride impacted soil is delineated vertically to the most stringent Table 1 Closure Criteria and impacted soil does not exceed a depth of 16 feet bgs. The analytical results are summarized on Table 1 and laboratory analytical reports are included in Attachment 4.

PROPOSED REMEDIATION WORK PLAN

An estimated 3,285 cubic yards of chloride impacted soil is present within the subsurface at the Site. WSP and COP propose to excavate the impacted soil in the release area and along Battle Ax Road to depths ranging from 1-foot to 16 feet bgs. Excavation activities will proceed until the final excavation extent confirms compliance with the Site Closure Criteria. The impacted soil will be disposed of at a licensed disposal facility. The proposed excavation depths are depicted on Figure 4.

Impacted soil near Battle Ax Road will be removed to the maximum extent possible while maintaining compliance with COP safety policy. Due to the close proximity of the release to the high traffic road, COP will stay a minimum of 10 feet from the pavement to protect workers and reduce the likelihood of compromising the foundation of the road. If impacts encroach the road, COP will defer the road and request to leave impacts in place due to safety concerns.

Following removal of impacted soil, 5-point composite confirmation samples will be collected from the sidewalls and floor of the excavation. Sidewall samples will be collected when the excavation depth exceeds 1.5 feet bgs. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The composite samples will represent a 200 square foot sampling area. The excavation soil samples will be collected and handled following the same procedures as described above and analyzed at Eurofins in Carlsbad, New Mexico. Once COP has confirmed all impacted soil has been successfully removed, the excavation will be backfilled with material purchase locally and recontoured to match pre-existing site conditions. The disturbed pasture will be re-seeded with an approved BLM seed mixture with landowner approval.

COP anticipates beginning remediation within 3 weeks of receipt of the approved remediation work plan. A final report requesting closure will be submitted within 2 weeks of receipt of final laboratory analytical results. The Form C-141 requesting approval of this work plan is included in Attachment 5.



If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

WSP USA Inc.

Kalei Jennings

Associate Consultant

Kalli Jennings

Ashley L. Ager, P.G.

Ashley L. Ager

Managing Director, Geologist

cc: Ike Tavarez, ConocoPhillips

Attachments:

Figure 1 Site Location Map

Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Figure 4 Proposed Excavation Depths

Figure 4 Proposed Excavation Depti

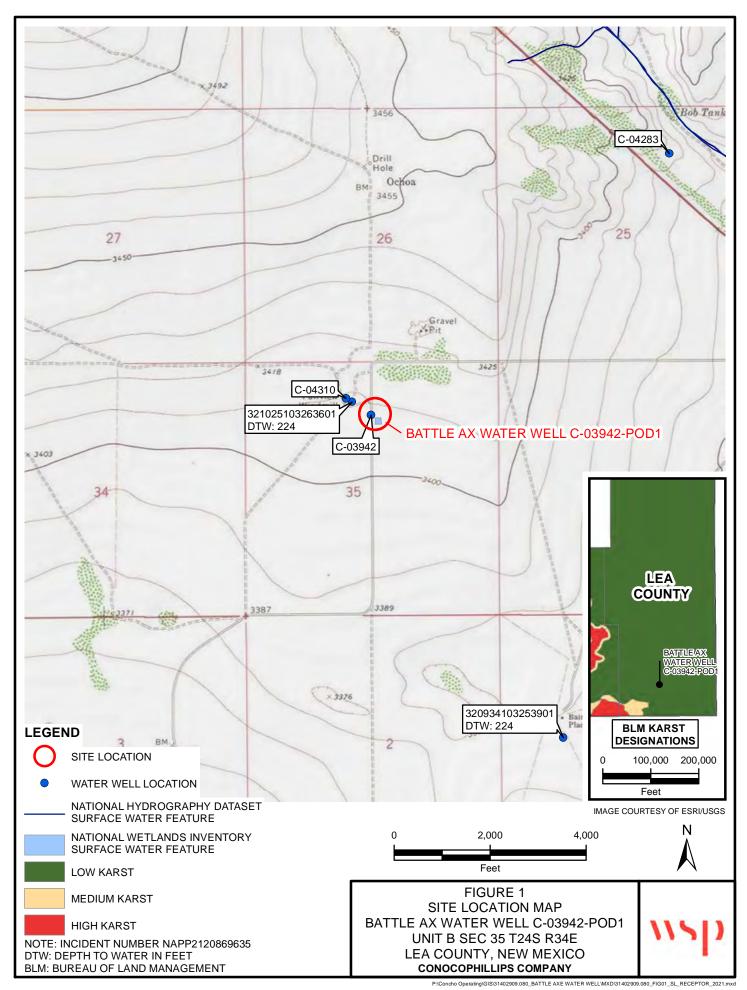
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records

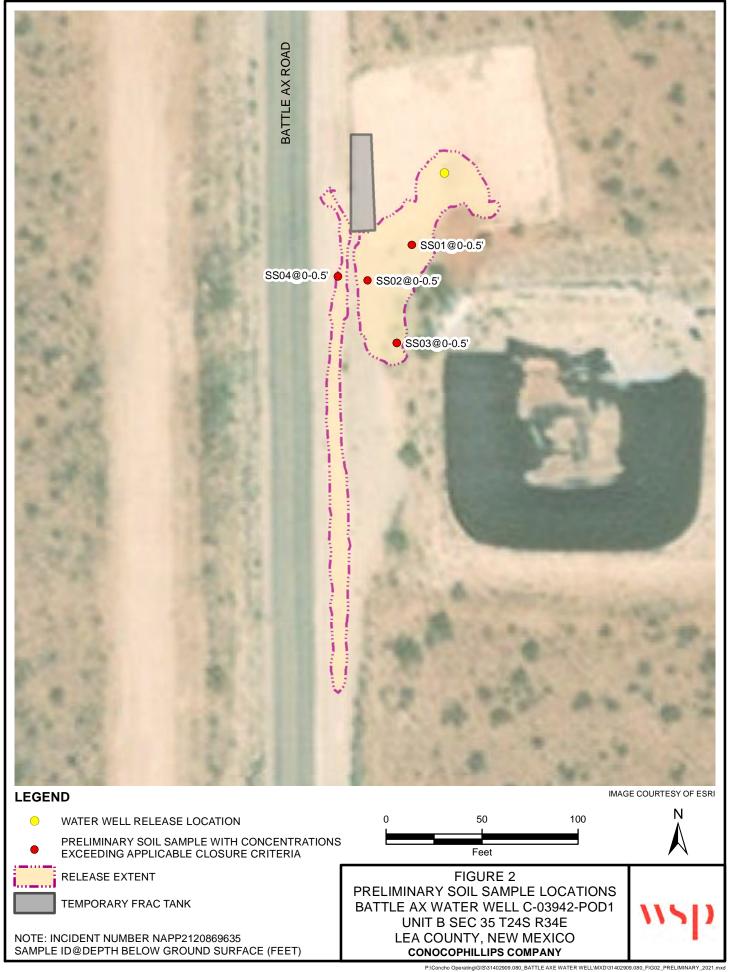
Attachment 2 Photographic Log

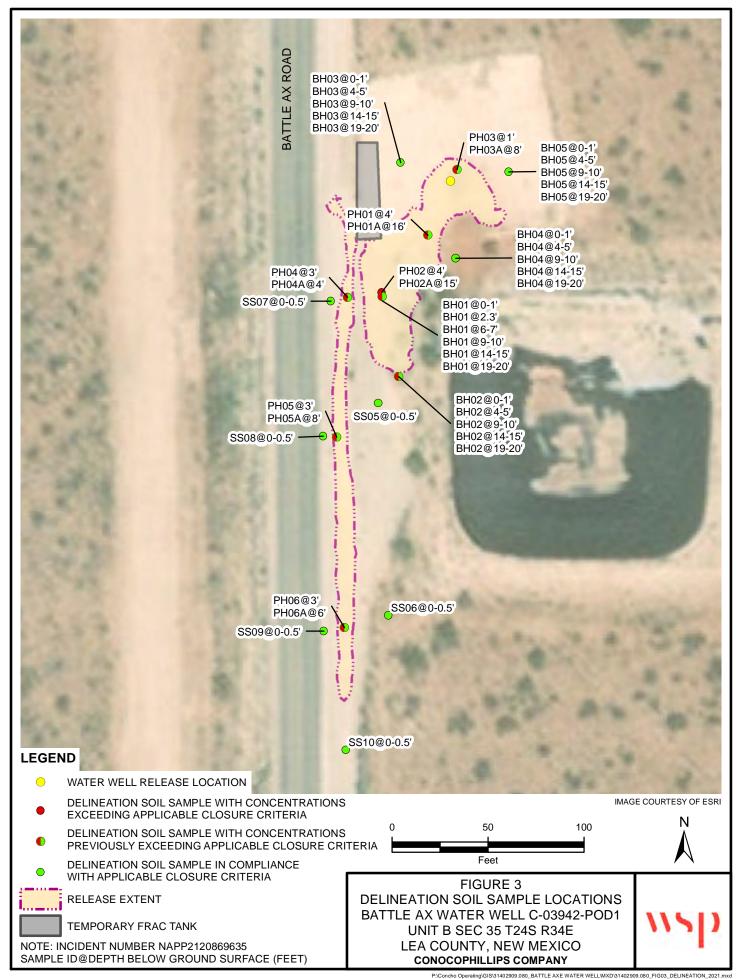
Attachment 3 Lithologic/Sampling Logs

Attachment 4 Laboratory Analytical Reports

Attachment 5 Form C-141







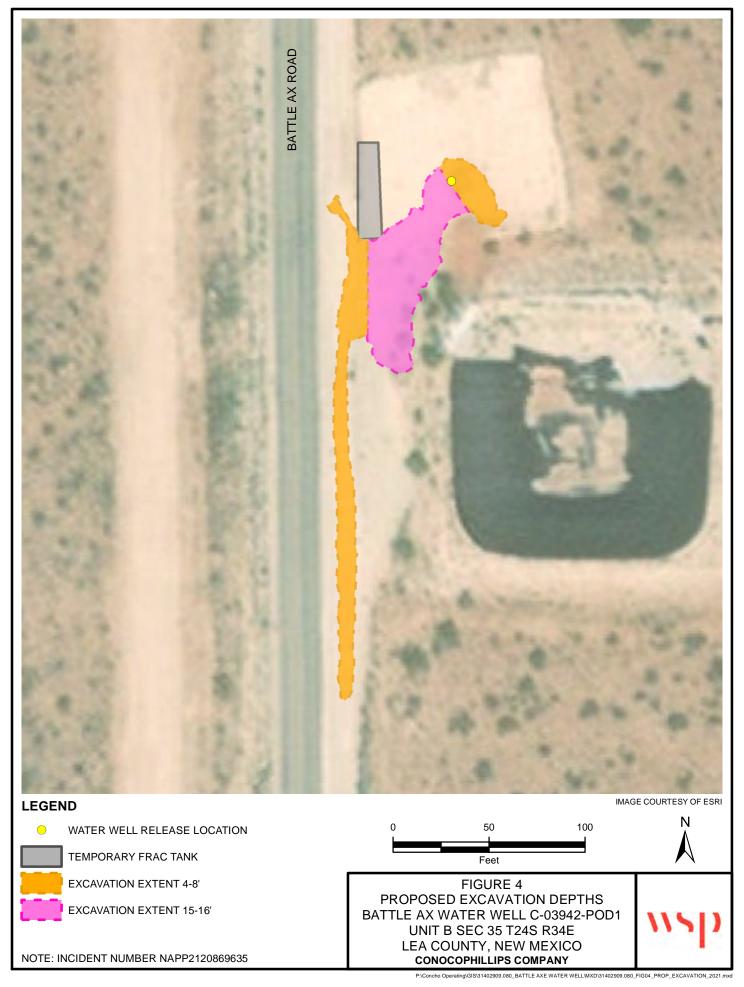


Table 1

Soil Analytical Results Water Well C-03942-POD1 Incident Number NAPP2120869635 Lea County, New Mexico

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 C	losure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Preliminary Soil Sa	mples									
SS01	07/28/2021	0-0.5	0.00458	0.0179	<50.0	140	<50.0	140	140	23,800
SS02	07/28/2021	0-0.5	0.00322	0.0118	<250	<250	<250	<250	<250	33,300
SS03	07/28/2021	0-0.5	0.00201	0.00592	<50.0	<50.0	<50.0	<50.0	<50.0	29,900
SS04	07/28/2021	0-0.5	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	22,900
SS05	09/08/2021	0-0.5	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	20.3
SS06	09/08/2021	0-0.5	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	13.2
SS07	09/08/2021	0-0.5	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	39.7
SS08	09/08/2021	0-0.5	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	20.6
SS09	09/08/2021	0-0.5	< 0.00198	< 0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	22.1
SS10	09/08/2021	0-0.5	< 0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	12.9
Delineation Soil Sar	nples									
PH01	08/16/2021	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10,044
PH01A	08/16/2021	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11,916
PH01B	08/16/2021	4	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	16,100
PH01C	08/16/2021	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17,360
PH01D	08/16/2021	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7,240
<i>PH01E</i>	08/16/2021	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,604
PH01F	08/16/2021	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,648
PH01G	08/16/2021	16	< 0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	474
PH02	08/16/2021	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21,670
PH02A	08/16/2021	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17,360
PH02B	08/16/2021	4	< 0.00198	< 0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	19,000
PH02C	08/16/2021	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13,020
PH02D	08/16/2021	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,440

Table 1

Soil Analytical Results
Water Well C-03942-POD1
Incident Number NAPP2120869635
Lea County, New Mexico

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 Clo	osure Criteria (NMA	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
PH02E	08/16/2021	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4,444
PH02F	08/16/2021	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10,928
PH02G	08/16/2021	15	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	16,800
PH03	08/16/2021	1	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	16,700
PH03A	08/16/2021	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11,916
PH03B	08/16/2021	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19,316
РН03С	08/16/2021	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11,916
PH03D	08/16/2021	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,576
РН03Е	08/16/2021	8	< 0.00198	< 0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	185
PH04	08/16/2021	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14,272
PH04A	08/16/2021	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17,300
PH04B	08/16/2021	3	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	14,900
РН04С	08/16/2021	4	< 0.00202	< 0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	370
PH05	08/16/2021	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13,000
PH05A	08/16/2021	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15,704
PH05B	08/16/2021	3	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	< 50.0	20,100
РН05С	08/16/2021	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11,916
PH05D	08/16/2021	6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	676
PH05E	08/16/2021	8	< 0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0	< 50.0	202
PH06	08/16/2021	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6,680
PH06A	08/16/2021	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6,680
PH06B	08/16/2021	3	< 0.00200	< 0.00401	<50.0	< 50.0	<50.0	< 50.0	<50.0	19,700
PH06C	08/16/2021	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14,264
PH06D	08/16/2021	6	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	133

Table 1

Soil Analytical Results
Water Well C-03942-POD1
Incident Number NAPP2120869635
Lea County, New Mexico

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 Cl	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
BH01	09/08/2021	0 - 1	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	4,920
BH01	09/08/2021	2 - 3	< 0.00200	< 0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	17,200
BH01	09/08/2021	6 - 7	< 0.00200	< 0.00399	<49.9	72.5	<49.9	72.5	72.5	5,890
BH01	09/08/2021	9 - 10	< 0.00199	< 0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	2,010
BH01	09/08/2021	14 - 15	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	221
BH01	09/08/2021	19 - 20	< 0.00202	< 0.00404	<50.0	<50.0	<50.0	<50.0	< 50.0	172
BH02	09/08/2021	0 - 1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	901
BH02	09/08/2021	4 - 5	< 0.00200	< 0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	748
BH02	09/08/2021	9 - 10	< 0.00202	< 0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	645
BH02	09/08/2021	14 - 15	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	20.7
BH02	09/08/2021	19 - 20	< 0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	18.4
BH03	09/08/2021	0 - 1	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	84.9
BH03	09/08/2021	4 - 5	< 0.00200	< 0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	30.2
BH03	09/08/2021	9 - 10	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	18.3
BH03	09/08/2021	14 - 15	< 0.00198	< 0.00397	<50.0	<50.0	<50.0	< 50.0	< 50.0	91.4
BH03	09/08/2021	19 - 20	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	91.8
BH04	09/08/2021	0 - 1	< 0.00202	< 0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	76.0
BH04	09/08/2021	4 - 5	< 0.00200	< 0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	19.2
BH04	09/08/2021	9 - 10	< 0.00201	< 0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	11.1
BH04	09/08/2021	14 - 15	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	< 50.0	15.4
BH04	09/08/2021	19 - 20	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	51.6
BH05	09/08/2021	0 - 1	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	16.7
BH05	09/08/2021	4 - 5	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	38.5
BH05	09/08/2021	9 - 10	< 0.00202	< 0.00403	<50.0	<50.0	<50.0	<50.0	< 50.0	37.1
BH05	09/08/2021	14 - 15	< 0.00202	< 0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	29.7

Table 1

Soil Analytical Results Water Well C-03942-POD1 Incident Number NAPP2120869635 Lea County, New Mexico

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 (NMAC 19.15.29)		10	50	NE	NE	NE	NE	100	600	
BH05	09/08/2021	19 - 20	< 0.00202	< 0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	35.6

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

Text field screening results only, no samples were submitted for laboratory analysis



New Mexico Office of the State Engineer

Water Right Summary

get image list

WR File Number: C 03942 Subbasin: CUB Cross Reference:

Primary Purpose: EXP EXPLORATION

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 **Cause/Case:** -

Agent: GREGORY ROCKHOUSE RANCH INC

Contact: MIKE STAPLETON LLC

Owner: BERT MADERA

Contact: MIKE STAPLETON LLC

Documents on File

Status From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

get 585604 EXPL 2016-04-20 PMT LOG C 03942 POD1 T 0 0

Current Points of Diversion

(NAD83 UTM in meters)

POD Number Well Tag Source 64Q16Q4Sec Tws Rng X Y Other Location Desc

<u>C 03942 POD1</u> Shallow 3 1 2 35 24S 34E 647005 3561246

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/7/21 8:59 AM WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

C 03942 POD1

2 35 24S 34E 647005 3561246

Driller License: 1737 **Driller Company:**

MULLINS, JUSTINIEL.NER

05/12/2016

Drill Finish Date:

05/17/2016

Plug Date:

Shallow

Drill Start Date: Log File Date:

08/05/2021

PCW Rcv Date:

Source:

SHADE TREE DRILLING

Pump Type:

Driller Name:

Pipe Discharge Size:

Estimated Yield:

5 GPM

Casing Size:

6.00

Depth Well:

420 feet

Depth Water:

222 feet

Water Bearing Stratifications: Top Bottom Description

180 Sandstone/Gravel/Conglomerate Sandstone/Gravel/Conglomerate

366

Casing Perforations: Top Bottom

> 240 260 360 380

420

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

400

10/7/21 9:00 AM

POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO]

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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321025103263601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321025103263601 24S.34E.35.12411

Lea County, New Mexico
Latitude 32°10'44.0", Longitude 103°26'31.2" NAD83
Land-surface elevation 3,409.00 feet above NGVD29
The depth of the well is 257 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Tab-separated data Graph of data Possilent partied	able of data	
	ab-separated data	
Posselant navied	iraph of data	
<u>Reselect period</u>	eselect period	

<u>leselect per</u>	100									
Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1953-03-29	9	D	62610		3185.10	NGVD29	1	Z		
1953-03-29	9	D	62611		3186.69	NAVD88	1	Z		
1953-03-29	9	D	72019	223.90			1	Z		
1971-01-1	3	D	62610		3190.96	NGVD29	1	Z		
1971-01-13	3	D	62611		3192.55	NAVD88	1	Z		
1971-01-13	3	D	72019	218.04			1	Z		
1976-01-1!	5	D	62610		3189.94	NGVD29	1	Z		
1976-01-1!	5	D	62611		3191.53	NAVD88	1	Z		
1976-01-1!		D	72019	219.06			1	Z		
1981-03-20		D	62610		3191.29	NGVD29	1	Z		
1981-03-20		D	62611		3192.88	NAVD88	1	Z		
1981-03-20		D	72019	217.71			1	Z		
1986-03-0		D	62610		3185.50	NGVD29	1	Z		
1986-03-0		D	62611	222 =2	3187.09	NAVD88	1	Z		
1986-03-0		D	72019	223.50	2400.02	10,500	1	Z		
1991-05-3	1	D	62610		3189.82	NGVD29	1	Z		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1991-05-31		D	62611		3191.41	NAVD88	1	Z		
1991-05-31		D	72019	219.18			1	Z		
1996-03-14		D	62610		3189.81	NGVD29	1	S		
1996-03-14		D	62611		3191.40	NAVD88	1	S		
1996-03-14		D	72019	219.19			1	S		
2013-01-16	22:00 UTC	m	62610		3185.06	NGVD29	1	S	USGS	5
2013-01-16	22:00 UTC	m	62611		3186.65	NAVD88	1	S	USGS	5
2013-01-16	22:00 UTC	m	72019	223.94			1	S	USGS	5

Expla	ınation
-------	---------

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	Α	Approved for publication Processing and review completed.

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Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-10-07 10:58:24 EDT

0.28 0.24 nadww02

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National Water Information System: Web Interface

USGS Water Resources	(Cooperator Access)	Data Category:		Geographic Area:		
obdb Water Resources	(cooperator Access)	Groundwater	~	United States	~	GO

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Groundwater levels for the Nation

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Search Results -- 1 sites found

site_no list =

• 321025103263601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321025103263601 24S.34E.35.12411

Available data for this site Groundwater: Field measurements V GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°10'44.0", Longitude 103°26'31.2" NAD83

Land-surface elevation 3,409.00 feet above NGVD29

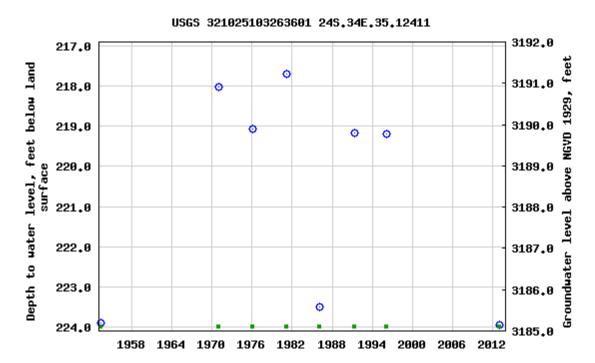
The depth of the well is 257 feet below land surface.

This well is completed in the Other aquifers (N99990THER) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



- Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-10-07 10:58:20 EDT

0.6 0.51 nadww02





	PHOTOGRAPHIC LOG	
ConocoPhillips	Water Well C-03942-POD1	31402909.080
•	Lea County, New Mexico	

Photo No.	Date
1	July 27,2021
during ir	ease extent nitial site sment.

Photo No.	Date	Date	
2	July 27, 2021	July 27, 2021	
View of re	lease extent	ease extent	
during i	nitial site	nitial site	
asses	sment.	sment.	



	PHOTOGRAPHIC LOG	
ConocoPhillips	Water Well C-03942-POD1	31402909.080
	Lea County, New Mexico	

Photo No.	Date
4	September 8, 2021
View of a	delineation
activities	via drill rig.

7			•		WSP (ISA			BH or PH Name:		Date:		
	11								PH01		8/16/2021		
	· ·		_	5 Car	08 West Ste Isbad, New N	vens S Jexico	Street 88220	-	Site Name:	l	Battle Ax Wate		
					isbaa, itew i		00220	-	RP or Incident Number: NAPP2120869635 WSP Job Number: 31402909.08				
		LITH	OI 00	SIC / SOIL	SAMPI IN	GLO	G		Logged By:	Anna B	Method:	Track hoe	
Lat/Lo	Lat/Long: Field Screening:									7	Total Depth:	Track fied	
					Hatch Chlorid	le Strips	s, PID	ļ	36"		17 feet		
Comm	nents: TD @ 17 f	eet											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #		epth bgs)	USCS/Rock Symbol			Lithology/R	Remarks		
М	10,044	0.1	Ν		# + +	0	SM	Fine, Silty	√ Sand. Dark l	Brown. No Oo	dor, No plasticity	<i>'</i> .	
М	10,920	0.6	Ν		‡	2	CCHE	Well cons	solidated Cali	che. No odor,	no plasticity. Pi	nk-tan	
М	11,916	2.6	Ν		‡	3	CCHE	Well cons	solidated Cali	che. No odor,	no plasticity. Pi	nk-tan	
М	17,360	2.2	N		‡	4	CCHE	Well cons	solidated Cali	che. No odor,	no plasticity. Pi	nk-tan	
М	17,360	1.0	N		† † †	6	CCHE	Poorly co	nsolidated Ca	aliche. No odd	or, no plasticity. I	Reddish	
М	7,240	0.8	Ν		+	8	CCHE	Poorly co	nsolidated Ca	aliche. No odo	or, no plasticity. I	Red/tan	
M	4,444	0.6	Ν		+	10	CCHE	Poorly co	nsolidated Ca	aliche. No odd	or, no plasticity. I	Red/tan	
М	1,648	0.8	N		 - - -	12	CCHE	Well cons	solidated Calid	che. No odor,	, no plasticity. Pi	nk-tan	
M	2,604	0.7	N		‡ ‡	14	CCHE	Well cons	solidated Calid	che. No odor,	, no plasticity. Pi	nk-tan	
М	572	0.6	Ν		‡	16	CCHE	Well cons	solidated Cali	che. No odor,	no plasticity. Pi	nk-tan	
M	852	0.8	Z			17	CCHE	Well cons		che. No odor,	no plasticity. Pi	nk-tan	

									BH or PH Name:		Date:	
7	110	$\subset \Pi$	1		WS	P USA			PH02		8/16/2021	
`				5	08 West 9	Stevens S	Street	-	Site Name:		Battle Ax Water	Well
				Car	08 West S Isbad, Ne	w Mexico	88220	-	RP or Incident Number	er:	NAPP2120869635	****
								,	WSP Job Number:		31402909.08	
		LITH	OLOG	SIC / SOIL	SAMPL	ING LO		Logged By: An	ına B	Method:	Track hoe	
Lat/Lo	ong:				Field Scre	_		Hole Diameter:		Total Depth:		
Comn	nents:				Hatch Chl	oride Strips	s, PID	Į,	36"		15 feet	
	TD @ 15 f	eet										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		L	.ithology/R	Remarks	
					T	0						
М	21,672	0.6	N		-	1	SM	Fine, Silty	Sand. Brown. N	o Odor, N	o plasticity.	
S	21,672	0.8	N		-	2	SM	Fine, Silty	Sand. Saturated	d. Brown. I	No Odor, No plas	ticity.
М	17,360	0.7	N		<u>-</u>	3	CCHE	Well cons	solidated Caliche	. No odor,	no plasticity. Pin	k-tan
М	21,672	0.9	N		<u>-</u>	4	CCHE	Well cons	solidated Caliche	. No odor,	no plasticity. Pin	k-tan
M	13,020	1.2	N		- - - -	- - - 6	CCHE	Well cons	solidated Caliche	. No odor,	no plasticity. Pin	k-tan
M	3,440	0.9	N		- - -	8	CCHE	Well cons	solidated Caliche	. No odor,	no plasticity. Pin	k-tan
M	11,916	0.9	N		-	10	CCHE	Well cons	solidated Caliche	. No odor,	no plasticity. Pin	k-tan
M	4,444	1.3	N		- - -	12	CCHE	Well cons	solidated Caliche	. No odor,	no plasticity. Pin	k-tan
М	10,928	1.1	N		- -	14	CCHE	Well cons	solidated Caliche	. No odor,	no plasticity. Pin	k-tan
M	17,360	1.0	N			- 15 	CCHE	Well cons Refusal o		. No odor,	no plasticity. Pin	k-tan

\	\\ ')	E Car	WS 508 West S Isbad, Ne	P USA Stevens S w Mexico	PH0 Site RP	or PH Name: 03 Name: or Incident Nu P Job Numbe		Date: 8/16/2021 Battle Ax Water NAPP2120869635 31402909.08	Well	
		LITH	OLOG	SIC / SOIL			G		ged By:	Anna B	Method:	Track hoe
Lat/Lo	Lat/Long: Field Screening: Hatch Chloride Strips, PID								e Diameter:		Total Depth: 8 feet	
Comn	nents: TD @ 8 fe	o.t			•		•			•		
Moisture Content		Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)				Lithology/R	Remarks	
M	19,316	1.2	Z		<u></u>] 0 - 1	SM	Fine, Silty Sa	and. Browr	n. No Odor, N	o plasticity.	
М	11,916	1.4	N		_	2	SM	Fine, Silty Sa	and. Browr	n. No Odor, N	o plasticity.	
М	19,316	0.7	N		_	3	GW	Well graded	gravel with	n sand. No oc	dor, no plasticity. F	Pink-tan
М	11,916	0.5	N		- -	4	CCHE	Well consoli	dated Calid	che. No odor,	no plasticity. Pinl	k-tan
M	1,576	0.6	Ν		- - - -	- - - 6 -	CCHE	Well consoli	dated Calid	che. No odor,	no plasticity. Pinl	<-tan
D	<108	0.9	Z			8	CCHE	Well consoli	dated Calid	che. No odor,	no plasticity. Pinl	k-tan

\	'''	51)	F	WSP		Street		BH or PH Name: PH04 Site Name:		Date: 8/16/2021 Battle Ax Wate	er Well
				Car	08 West Ste Isbad, New	Mexico	88220		RP or Incident Nu	ımber:	NAPP212086963	
									WSP Job Numbe	r:	31402909.0	08
		LITH	OLOG	SIC / SOIL	SAMPLIN		G		Logged By:	Anna B	Method:	Track hoe
Lat/Lo	ong:				Field Screen Hatch Chloric		e DID		Hole Diameter: 36"		Total Depth: 4 feet	
Comr	nents:				riateri Onioni	ac ourp				11000		
	TD @ 4 feet											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth t bgs)	USCS/Rock Symbol			Lithology/F	Remarks	
					11	0						
М	14,232	0.6	N		‡	1	SM	Fine, Silt	y Sand. Browr	n. No Odor, N	No plasticity.	
М	17,360	0.7	N			2	SM	Fine, Silt	y Sand. Browr	n. No Odor, N	No plasticity.	
М	17,360	0.8	Ν		‡	3	CCHE	Well con	solidated Calid	che. No odor	, no plasticity. P	Pink-tan
М	356	0.7	N		‡	4	CCHE	Well con	solidated Calid	che. No odor	, no plasticity. P	Pink-tan

\	\\'	51)	5 Car	WS 508 West S Isbad, Ne	P USA Stevens S w Mexico	Street 88220		BH or PH Name: PH05 Site Name: RP or Incident Nu WSP Job Numbe		Date: 8/16/2021 Battle Ax Water Well NAPP2120869635 31402909.08	
		LITH	OLOC	SIC / SOIL			G		Logged By:	Anna B	Method: Track hoe	
Lat/Lo	Field Screening: Hatch Chloride Strips, PID								Hole Diameter: 36"		Total Depth: 8 feet	
Comr	nents:				riatori orii	ondo omp	!			10.000	\exists	
Moisture Content	Chloride © Chloride (ppm) eg 8	Vapor (ppm)	Staining	Sample #	Sample Depth	Depth (ft bgs)	USCS/Rock Symbol			Lithology/F	Remarks	
ĕŏ	ي ج	> 5	St	Sal	(ft bgs)	(it bgs)	USC					
					1	0						\dashv
М	13,020	1.1	N		- -	1	SM	Fine, Silty	/ Sand. Browr	n. No Odor, N	o plasticity.	
М	15,704	1.0	Ν		<u>-</u>	_ 2	SM	Fine, Silty	y Sand. Browr	n. No Odor, N	o plasticity.	
М	21,672	1.0	N		_	3	GW	Well grad	ded gravel with	n sand. No od	dor, no plasticity. Pink-tan	
М	11,916	0.9	N		_	4	CCHE	Well cons	solidated Calid	che. No odor,	no plasticity. Pink-tan	
M	676	1.5	N		- - - -	- - - 6	CCHE	Well con:	solidated Calid	che. No odor,	no plasticity. Pink-tan	
D	220	1.2	N			• - 8 • - 8 • - • - • - • - • - • - • - • - • - • -	CCHE	Well cons	solidated Calid	che. No odor,	no plasticity. Pink-tan	

\	\\'	5)	Çar	WSP USA 508 West Stevens Isbad, New Mexic	Street to 88220	
		LITH		CIC / SOII	_ SAMPLING LO	20	WSP Job Number: 31402909.08 Logged By: Anna B Method: Track hoe
Lat/Lo	ong:	LIII	OLOC	3IC / 3UII	Field Screening:	Logged By: Anna B Method: Track hoe Hole Diameter: Total Depth:	
					Hatch Chloride Str	ps, PID	36" 6 feet
Comn	nents: TD @ 6 fe	et					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
N 4	.100	0.0	N		0		
М	<108	0.8	N		$\frac{1}{1}$	SM	Fine, Silty Sand. Brown. No Odor, No plasticity.
М	6,680	1.2	N		2	GW	Well graded gravel with sand. No odor, no plasticity. Pink-tan
М	19,316	0.9	N		3	CCHE	Well consolidated Caliche. No odor, no plasticity. Pink-tan
М	14,264	0.7	N		4	CCHE	Well consolidated Caliche. No odor, no plasticity. Pink-tan
M	108	1.2	N		6	CCHE	Well consolidated Caliche. No odor, no plasticity. Pink-tan TD

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: BH01 9/8/2021 Site Name: Battle Ax Water Well RP or Incident Number: NAPP2120869635				
				100				WSP Job Numbe		31402909.0		
Lat/Lo	ona:	LIIH	OLOG		Field Screening:		Logged By: Hole Diameter:	Anna B	Method: Total Depth:	Drill Rig		
					Hatch Chloride Strip		6"		20 feet			
Comn	nents: TD @ 20 f	eet										
Moisture Content	# X							Lithology/Remarks				
M	5,716 19,316	0.6	N N		0'-1'					own. No Odor, l		
					T							
D	14,264	0.4	N		4'-5'	CCHE	Well cons	solidated Calid	che. No odor	, no plasticity. P	ink-tan	
D	7,420	0.7	Ν		6'-7'	CCHE	Well cons	solidated Calid	che. No odor	, no plasticity. P	ink-tan	
D	1,760	0.2	N		9'-10'	CCHE	Well consolidated Caliche. No odor, no plasticity. Pink-tan					
D	252	0.3	N		14'-15	CCHE	Well cons	solidated Calid	che. No odor	, no plasticity. F	Pink-tan	
D	220	0.4	Z		19'-20	CCHE	Well cons	solidated Calid	che. No odor	, no plasticity. F	Pink-tan	

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: BH02 9/8/2021 Site Name: Battle Ax Water Well RP or Incident Number: NAPP2120869635 WSR Joh Number: 21403000 08				
		LITH		NC / SOIL	SAMPLING LO		WSP Job Numbe	r: Anna B	31402909.0 Method:			
Lat/Lo	ona:	LIII	OLOC		Field Screening:		Logged By: Hole Diameter:	Allia b	Total Depth:	Drill Rig		
					Hatch Chloride Strip		6"		20 feet			
Comm	Comments: TD @ 20 feet											
Moisture Content	# X							Lithology/Remarks				
D D	<108 <108	0.2	z z		0'-1'					own. No Odor, I		
					T							
D	1,908	0.3	N		4'-5'	CCHE	Well con	solidated Calid	che. No odor	, no plasticity. P	ink-tan	
D	920	0.2	Ν		<u>†</u> 6'-7'	CCHE	Well con	solidated Calid	che. No odor	, no plasticity. P	ink-tan	
D	480	0.3	N		9'-10'	CCHE	Well consolidated Caliche. No odor, no plasticity. Pink-tan					
D	136	0.2	N		14'-15	CCHE	Well con	solidated Calid	che. No odor	, no plasticity. P	ink-tan	
D	160	0.1	Z		19'-20'	CCHE	Well cons	solidated Calid	che. No odor	, no plasticity. P	rink-tan	

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220								BH or PH Name: Date: BH03 9/8/2021 Site Name: Battle Ax Water Well RP or Incident Number: NAPP2120869635				
								WSP Job Numbe		31402909.0		
		LITH	OLOG		SAMPLING LO		Logged By:	Anna B	Method:	Drill Rig		
Lat/Lo	ong:				Field Screening: Hatch Chloride Strips	Hole Diameter: 6"		Total Depth: 20 feet				
Comm	nents:			ļ'	lateri Criionde Strips	5, 1 10	ļ			201000		
TD @ 20 feet												
Moisture Content	Chloride (ppm) Vapor (ppm) Staining Sample # Sample # Debty (tt pds) USCS/Rock Symbol							Lithology/Remarks				
					₩ 0							
D	108	0.2	N		0'-1'	CCHE	Well cons	solidated Calid	che. No odor	, no plasticity. F	Pink-tan	
D	<108	0.2	Ν		2'-3'	CCHE	Well cons	solidated Cali	che. No odor	, no plasticity. F	Pink-tan	
D	<108	0.1	N		4'-5'	CCHE	Well cons	solidated Cali	che. No odor	, no plasticity. F	Pink-tan	
D	<108	0.2	N		6'-7'	CCHE	Well cons	solidated Calid	che. No odor	, no plasticity. F	Pink-tan	
D	<108	0.3	N		9'-10'	CCHE	Well cons	solidated Calid	che. No odor	, no plasticity. F	Pink-tan	
D	188	0.2	N		14'-15'	CCHE	Well cons	solidated Calid	che. No odor	, no plasticity. F	Pink-tan	
D	320	0.1	Z		19'-20'	CCHE	Well cons	solidated Cali	che. No odor	, no plasticity. F	Pink-tan	

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220							BH or PH Name: BH04 9/8/2021 Site Name: Battle Ax Water Well RP or Incident Number: NAPP2120869635					
							WSP Job Numbe		31402909.0			
Lat/Lo		LITH	OLOG	SIC / SOIL	Field Screening:		Logged By: Hole Diameter:	Anna B	Method: Total Depth:	Track hoe		
Lavico	ong:				Hatch Chloride Strip	6"		20 feet				
Comments: TD @ 20 feet												
Moisture Content	Chloride (ppm) Vapor (ppm) Sample # Sample # Sample (tt pds) USCS/Rock Symbol							Lithology/Remarks				
D D	<108 <108	0.3	N N		0'-1'					own. No Odor,		
					ΙŢ							
D	<108	0.2	N		4'-5'	CCHE	Well con	solidated Cali	che. No odor	, no plasticity. F	'ink-tan	
D	<108	0.2	N		6'-7'	CCHE	Well con	solidated Cali	che. No odor	, no plasticity. F	ink-tan	
D	<108	0.1	N		9'-10'	CCHE	Well consolidated Caliche. No odor, no plasticity. Pink-tan					
D	<108	0.0	N		14'-15	CCHE	Well con	solidated Cali	che. No odor	, no plasticity. F	Pink-tan	
D	108	0.1	Z		19'-20	CCHE	Well con	solidated Cali	che. No odor	, no plasticity. F	Pink-tan	

\	'''	51)	Ę Car	WSP USA 508 West Stevens S Isbad, New Mexico	Street	BH or PH Name: BH05 9/8/2021 Site Name: Battle Ax Water Well
				Oui	isbaa, ivev iviexiec	00220	RP or Incident Number: NAPP2120869635 WSP Job Number: 31402909.08
		LITH	OLOG	SIC / SOIL	SAMPLING LO	G	Logged By: Anna B Method: Drill Rig
Lat/Lo	ng:				Field Screening:		Hole Diameter: Total Depth:
Comm	nents:				Hatch Chloride Strip	s, PID	6" 20 feet
	TD @ 201	feet				ı	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D	<108	0.3	Ν		0'-1'	ССНЕ	Well consolidated Caliche. No odor, no plasticity. Pink-tan
D	<108	0.1	Ν		2'-3'	ССНЕ	Well consolidated Caliche. No odor, no plasticity. Pink-tan
D	<108	0.2	N		4'-5'	CCHF	Well consolidated Caliche. No odor, no plasticity. Pink-tan
					6'-7'		
D	<108	0.2	N		+ 6-7	CCHE	Well consolidated Caliche. No odor, no plasticity. Pink-tan
D	<108	0.1	N		9'-10'	CCHE	Well consolidated Caliche. No odor, no plasticity. Pink-tan
D	108	0.0	N		14'-15	CCHE	Well consolidated Caliche. No odor, no plasticity. Pink-tan
D	188	0.1	Z		19'-20	CCHE	Well consolidated Caliche. No odor, no plasticity. Pink-tan TD



ANALYTICAL REPORT

Job Number: 890-1022-1

SDG Number: Battle Axe Rd Jal, NM 88252

Job Description: C-03942 POD1

For: WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, TX 75207

Attention: Kalei Jennings

Approved for release Jessica Kramer Project Manager 8/2/2021 12:20 PM

Jessica Kramer, Project Manager 1211 W. Florida Ave, Midland, TX, 79701 jessica.kramer@eurofinset.com 08/02/2021

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TNI TABORATORY

Client Sample Result Summary

Client: WSP USA Inc.

Project/Site: C-03942 POD1

SDG: Battle Axe Rd Jal, NM 88252

Lab Sample ID: 890-1022-1 890-1022-2 890-1022-3 890-1022-4 SS04 Client Sample ID: SS01 SS02 SS03 Depth: 0.5 0.5 0.5 0.5 Matrix: Solid Solid Solid Solid

Date Collected: 07/28/2021 16:45 07/28/2021 16:50 07/28/2021 16:55 07/28/2021 17:14

Method: 8021B - Volatile Organic Compounds (GC)

	Prepared:	07/30/2021 13	3:00	07/30/2021 13	:00	07/30/2021 13:00		07/30/2021 13:00	
	Analyzed:	07/30/2021 14	:53	07/30/2021 15	:14	07/30/2021 15	:34	07/30/2021 15	:55
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Benzene		0.00458	0.00202	0.00322	0.00199	0.00201	0.00200	<0.00200 U	0.00200
Toluene		0.0109	0.00202	0.00853	0.00199	0.00391	0.00200	<0.00200 U	0.00200
Ethylbenzene		<0.00202 U	0.00202	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00200 U	0.00200
m-Xylene & p-Xylene		<0.00403 U	0.00403	<0.00398 U	0.00398	<0.00400 U	0.00400	<0.00400 U	0.00400
o-Xylene		0.00246	0.00202	<0.00199 U	0.00199	<0.00200 U	0.00200	<0.00200 U	0.00200
Xylenes, Total		<0.00403 U	0.00403	<0.00398 U	0.00398	<0.00400 U	0.00400	<0.00400 U	0.00400
Total BTEX		0.0179	0.00403	0.0118	0.00398	0.00592	0.00400	<0.00400 U	0.00400

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

	Prepared:	07/30/2021 10):13	07/30/2021 10	:13	07/30/2021 10	:13	07/30/2021 10	:13
	Analyzed:	07/30/2021 14	:42	07/30/2021 15	5:16	07/30/2021 15	5:40	07/30/2021 16	:01
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL
Gasoline Range Organi	ics	<50.0 U	50.0	<250 U	250	<50.0 U	50.0	<50.0 U	50.0
(GRO)-C6-C10									
Diesel Range Organics	(Over	140	50.0	<250 U	250	<50.0 U	50.0	<50.0 U	50.0
C10-C28)									
Oll Range Organics (O	ver	<50.0 U	50.0	<250 U	250	<50.0 U	50.0	<50.0 U	50.0
C28-C36)									
Total TPH		140	50.0	<250 U	250	<50.0 U	50.0	<50.0 U	50.0

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Analyzed:	07/31/2021 15:26		07/31/2021	07/31/2021 15:32		15:37	07/31/2021 15:43		
Analyte	Unit/RL:	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	mg/Kg	RL	
Chloride		23800	248	33300	251	29900	250	22900	249	



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1125-1

Laboratory Sample Delivery Group: 31402909.080

Client Project/Site: Battle Ax Water Well

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Kalei Jennings

J. KRAMER

Authorized for release by: 8/23/2021 4:28:40 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: WSP USA Inc.
Project/Site: Battle Ax Water Well

Laboratory Job ID: 890-1125-1 SDG: 31402909.080

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well

SDG: 31402909.080

Qualifiers

GC VOA

Qualifier **Qualifier Description** LCS and/or LCSD is outside acceptance limits, low biased. F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected. U

HPLC/IC Qualifier

F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Qualifier Description

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL. RA. RE. IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present Practical Quantitation Limit **PQL**

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

Job ID: 890-1125-1

SDG: 31402909.080

Job ID: 890-1125-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1125-1

Receipt

The samples were received on 8/18/2021 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-6785 and analytical batch 880-6831 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: PH01 (890-1125-2). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6805 and analytical batch 880-6837 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

Client Sample ID: PH01

Date Collected: 08/16/21 10:10 Date Received: 08/18/21 16:40

Sample Depth: 4

Lab	Samp	le	ID:	890	-11	125	5-1	

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *- F1	0.00199	mg/Kg		08/20/21 07:30	08/20/21 11:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/20/21 07:30	08/20/21 11:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/20/21 07:30	08/20/21 11:33	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	mg/Kg		08/20/21 07:30	08/20/21 11:33	1
o-Xylene	<0.00199	U F1	0.00199	mg/Kg		08/20/21 07:30	08/20/21 11:33	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		08/20/21 07:30	08/20/21 11:33	1
Total BTEX	<0.00398	U F1	0.00398	mg/Kg		08/20/21 07:30	08/20/21 11:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			08/20/21 07:30	08/20/21 11:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130			08/20/21 07:30	08/20/21 11:33	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 13:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 13:52	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 13:52	1
Total TPH	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 13:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			08/20/21 11:00	08/20/21 13:52	1
o-Terphenyl	97		70 - 130			08/20/21 11:00	08/20/21 13:52	1

Method: 300.0 - Anions, Ion Chro	omatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16100	99.2	mg/Kg			08/20/21 18:34	20

Client Sample ID: PH01 Lab Sample ID: 890-1125-2 Date Collected: 08/16/21 12:25 **Matrix: Solid**

Date Received: 08/18/21 16:40

Sample Depth: 16

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200	mg/Kg		08/20/21 07:30	08/20/21 12:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 12:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 12:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/20/21 07:30	08/20/21 12:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 12:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/20/21 07:30	08/20/21 12:15	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/20/21 07:30	08/20/21 12:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130			08/20/21 07:30	08/20/21 12:15	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/20/21 07:30	08/20/21 12:15	1

Lab Sample ID: 890-1125-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

Client Sample ID: PH01

Date Collected: 08/16/21 12:25 Date Received: 08/18/21 16:40

Sample Depth: 16

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/20/21 11:00	08/20/21 14:14	-
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/20/21 11:00	08/20/21 14:14	•
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/20/21 11:00	08/20/21 14:14	
Total TPH	<49.9	U	49.9	mg/Kg		08/20/21 11:00	08/20/21 14:14	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	84		70 - 130			08/20/21 11:00	08/20/21 14:14	
o-Terphenyl	97		70 - 130			08/20/21 11:00	08/20/21 14:14	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	474		5.00	mg/Kg			08/20/21 18:39	-

Client Sample ID: PH02 Lab Sample ID: 890-1125-3 Matrix: Solid

Date Collected: 08/16/21 13:02 Date Received: 08/18/21 16:40

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *-	0.00198	mg/Kg		08/20/21 07:30	08/20/21 12:36	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/20/21 07:30	08/20/21 12:36	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/20/21 07:30	08/20/21 12:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/20/21 07:30	08/20/21 12:36	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/20/21 07:30	08/20/21 12:36	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		08/20/21 07:30	08/20/21 12:36	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		08/20/21 07:30	08/20/21 12:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			08/20/21 07:30	08/20/21 12:36	1
1,4-Difluorobenzene (Surr)	104		70 - 130			08/20/21 07:30	08/20/21 12:36	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 15:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 15:02	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 15:02	1
Total TPH	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 15:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			08/20/21 11:00	08/20/21 15:02	1
o-Terphenyl	100		70 - 130			08/20/21 11:00	08/20/21 15:02	1

Method: 300.0 - Anions, Ion Chron	natography - S	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19000		250	mg/Kg			08/20/21 18:45	50

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

Client Sample ID: PH02

Date Collected: 08/16/21 14:15 Date Received: 08/18/21 16:40

Sample Depth: 15

Lab Sample	D: 890-1125-4
------------	---------------

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199	mg/Kg		08/20/21 07:30	08/20/21 12:57	1
Toluene	0.00296		0.00199	mg/Kg		08/20/21 07:30	08/20/21 12:57	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/20/21 07:30	08/20/21 12:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/20/21 07:30	08/20/21 12:57	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/20/21 07:30	08/20/21 12:57	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/20/21 07:30	08/20/21 12:57	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/20/21 07:30	08/20/21 12:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			08/20/21 07:30	08/20/21 12:57	1
1,4-Difluorobenzene (Surr)	87		70 - 130			08/20/21 07:30	08/20/21 12:57	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		08/20/21 11:00	08/20/21 15:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		08/20/21 11:00	08/20/21 15:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/20/21 11:00	08/20/21 15:24	1
Total TPH	<49.9	U	49.9	mg/Kg		08/20/21 11:00	08/20/21 15:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			08/20/21 11:00	08/20/21 15:24	1
o-Terphenvl	97		70 - 130			08/20/21 11:00	08/20/21 15:24	1

Method: 300.0 - Anions, Ion Chro	matography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16800	99.2	mg/Kg			08/20/21 18:51	20

Client Sample ID: PH03 Lab Sample ID: 890-1125-5 Date Collected: 08/16/21 14:30

Date Received: 08/18/21 16:40

Released to Imaging: 11/17/2021 10:17:45 AM

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200	mg/Kg		08/20/21 07:30	08/20/21 15:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 15:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 15:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/20/21 07:30	08/20/21 15:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 15:58	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		08/20/21 07:30	08/20/21 15:58	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/20/21 07:30	08/20/21 15:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			08/20/21 07:30	08/20/21 15:58	1
1,4-Difluorobenzene (Surr)	106		70 - 130			08/20/21 07:30	08/20/21 15:58	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Lab Sample ID: 890-1125-5

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

Client Sample ID: PH03

Date Collected: 08/16/21 14:30 Date Received: 08/18/21 16:40

Sample Depth: 1

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 15:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 15:45	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 15:45	1
Total TPH	<49.8	U	49.8	mg/Kg		08/20/21 11:00	08/20/21 15:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			08/20/21 11:00	08/20/21 15:45	1
o-Terphenyl	99		70 - 130			08/20/21 11:00	08/20/21 15:45	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16700		248	mg/Kg			08/20/21 18:56	50

Client Sample ID: PH03 Lab Sample ID: 890-1125-6 Date Collected: 08/16/21 15:00 Matrix: Solid

Date Received: 08/18/21 16:40

Sample Depth: 8

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U *-	0.00198	mg/Kg		08/20/21 07:30	08/20/21 16:19	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/20/21 07:30	08/20/21 16:19	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/20/21 07:30	08/20/21 16:19	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		08/20/21 07:30	08/20/21 16:19	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/20/21 07:30	08/20/21 16:19	1
Xylenes, Total	< 0.00397	U	0.00397	mg/Kg		08/20/21 07:30	08/20/21 16:19	1
Total BTEX	<0.00397	U	0.00397	mg/Kg		08/20/21 07:30	08/20/21 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/20/21 07:30	08/20/21 16:19	1
1,4-Difluorobenzene (Surr)	105		70 - 130			08/20/21 07:30	08/20/21 16:19	1
Method: 8015B NM - Diesel Ranç Analyte	• •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel Rand	no Organics (D	RO) (GC)						
	Result	Qualifier			<u>D</u>			Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL 49.9	Unit mg/Kg	D	Prepared 08/20/21 11:00	Analyzed 08/20/21 16:06	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U		mg/Kg	<u>D</u>		08/20/21 16:06	1
Analyte Gasoline Range Organics	Result	Qualifier U	49.9		<u>D</u>	08/20/21 11:00		1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9	mg/Kg	<u> </u>	08/20/21 11:00	08/20/21 16:06	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	08/20/21 11:00 08/20/21 11:00	08/20/21 16:06 08/20/21 16:06	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 11:00 08/20/21 11:00 08/20/21 11:00	08/20/21 16:06 08/20/21 16:06 08/20/21 16:06	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 11:00 08/20/21 11:00 08/20/21 11:00 08/20/21 11:00	08/20/21 16:06 08/20/21 16:06 08/20/21 16:06 08/20/21 16:06	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 11:00 08/20/21 11:00 08/20/21 11:00 08/20/21 11:00 Prepared	08/20/21 16:06 08/20/21 16:06 08/20/21 16:06 08/20/21 16:06 Analyzed	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 11:00 08/20/21 11:00 08/20/21 11:00 08/20/21 11:00 Prepared 08/20/21 11:00	08/20/21 16:06 08/20/21 16:06 08/20/21 16:06 08/20/21 16:06 Analyzed 08/20/21 16:06	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 11:00 08/20/21 11:00 08/20/21 11:00 08/20/21 11:00 Prepared 08/20/21 11:00	08/20/21 16:06 08/20/21 16:06 08/20/21 16:06 08/20/21 16:06 Analyzed 08/20/21 16:06	

Lab Sample ID: 890-1125-7

Client Sample Results

Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

SDG: 31402909.080

Client Sample ID: PH04

Date Collected: 08/16/21 15:22 Date Received: 08/18/21 16:40

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200	mg/Kg		08/20/21 07:30	08/20/21 16:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 16:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 16:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/20/21 07:30	08/20/21 16:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 16:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/20/21 07:30	08/20/21 16:40	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		08/20/21 07:30	08/20/21 16:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			08/20/21 07:30	08/20/21 16:40	1
1,4-Difluorobenzene (Surr)	85		70 - 130			08/20/21 07:30	08/20/21 16:40	1

Method: 8015B NM - Diesel Rang	ge Organics (D	KO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 20:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 20:18	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 20:18	1
Total TPH	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 20:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			08/20/21 08:26	08/20/21 20:18	1
o-Terphenyl	105		70 - 130			08/20/21 08:26	08/20/21 20:18	1

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14900	F1	99.0	mg/Kg			08/20/21 17:26	20

Client Sample ID: PH04
Date Collected: 08/16/21 15:25

Date Received: 08/18/21 16:40

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-	0.00202	mg/Kg		08/20/21 07:30	08/20/21 17:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		08/20/21 07:30	08/20/21 17:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		08/20/21 07:30	08/20/21 17:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		08/20/21 07:30	08/20/21 17:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		08/20/21 07:30	08/20/21 17:00	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		08/20/21 07:30	08/20/21 17:00	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		08/20/21 07:30	08/20/21 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			08/20/21 07:30	08/20/21 17:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130			08/20/21 07:30	08/20/21 17:00	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1125-8

Matrix: Solid

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Lab Sample ID: 890-1125-8

Client Sample Results

Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

SDG: 31402909.080

Client Sample ID: PH04

Date Collected: 08/16/21 15:25 Date Received: 08/18/21 16:40

Sample Depth: 4

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		08/20/21 08:26	08/20/21 20:39	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		08/20/21 08:26	08/20/21 20:39	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		08/20/21 08:26	08/20/21 20:39	1
Total TPH	<49.8	U	49.8	mg/Kg		08/20/21 08:26	08/20/21 20:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			08/20/21 08:26	08/20/21 20:39	1
o-Terphenyl	107		70 - 130			08/20/21 08:26	08/20/21 20:39	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370		5.04	mg/Kg			08/20/21 17:43	1

Client Sample ID: PH05

Date Collected: 08/16/21 15:46

Lab Sample ID: 890-1125-9

Matrix: Solid

Date Collected: 08/16/21 15:46 Date Received: 08/18/21 16:40

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199	mg/Kg		08/20/21 07:30	08/20/21 17:21	1
Toluene	0.00241		0.00199	mg/Kg		08/20/21 07:30	08/20/21 17:21	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		08/20/21 07:30	08/20/21 17:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/20/21 07:30	08/20/21 17:21	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		08/20/21 07:30	08/20/21 17:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/20/21 07:30	08/20/21 17:21	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		08/20/21 07:30	08/20/21 17:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			08/20/21 07:30	08/20/21 17:21	1
1,4-Difluorobenzene (Surr)	93		70 - 130			08/20/21 07:30	08/20/21 17:21	1
•	• • •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel Pan	no Organice (D	PO) (GC)						
Analyte	Result	Qualifier			<u>D</u>			Dil Fac
Analyte Gasoline Range Organics	• • •	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared 08/20/21 08:26	Analyzed 08/20/21 20:59	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	08/20/21 08:26	08/20/21 20:59	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U	50.0	mg/Kg	<u>D</u>	08/20/21 08:26	08/20/21 20:59	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U U	50.0	mg/Kg	<u>D</u>	08/20/21 08:26 08/20/21 08:26	08/20/21 20:59 08/20/21 20:59	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 08:26 08/20/21 08:26 08/20/21 08:26	08/20/21 20:59 08/20/21 20:59 08/20/21 20:59	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U U U U	50.0 50.0 50.0 50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 08:26 08/20/21 08:26 08/20/21 08:26 08/20/21 08:26	08/20/21 20:59 08/20/21 20:59 08/20/21 20:59 08/20/21 20:59	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U U	50.0 50.0 50.0 50.0 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 08:26 08/20/21 08:26 08/20/21 08:26 08/20/21 08:26 Prepared	08/20/21 20:59 08/20/21 20:59 08/20/21 20:59 08/20/21 20:59 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 08:26 08/20/21 08:26 08/20/21 08:26 08/20/21 08:26 Prepared 08/20/21 08:26	08/20/21 20:59 08/20/21 20:59 08/20/21 20:59 08/20/21 20:59 Analyzed 08/20/21 20:59	1 1 1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	Result	Qualifier U U U Qualifier	50.0 50.0 50.0 50.0 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 08:26 08/20/21 08:26 08/20/21 08:26 08/20/21 08:26 Prepared 08/20/21 08:26	08/20/21 20:59 08/20/21 20:59 08/20/21 20:59 08/20/21 20:59 Analyzed 08/20/21 20:59	Dil Fac

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Client Sample Results

Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

SDG: 31402909.080

Client Sample ID: PH05

Date Collected: 08/16/21 16:08 Date Received: 08/18/21 16:40

Sample Depth: 8

Lab	Sample	ID:	890-	112	25-	10

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200	mg/Kg		08/20/21 07:30	08/20/21 18:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 18:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 18:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/20/21 07:30	08/20/21 18:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 18:43	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/20/21 07:30	08/20/21 18:43	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/20/21 07:30	08/20/21 18:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			08/20/21 07:30	08/20/21 18:43	1
1,4-Difluorobenzene (Surr)	84		70 - 130			08/20/21 07:30	08/20/21 18:43	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 21:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 21:20	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 21:20	1
Total TPH	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 21:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			08/20/21 08:26	08/20/21 21:20	1
o-Terphenyl	99		70 - 130			08/20/21 08:26	08/20/21 21:20	1

ì	 Method: 300.0 - Anions, Ion Chromato	graphy -	Soluble						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	202		4.95	mg/Kg			08/20/21 17:54	1

Client Sample ID: PH06

Lab Sample ID: 890-1125-11

Date Collected: 08/16/21 16:25

Matrix: Solid

Date Received: 08/18/21 16:40

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200	mg/Kg		08/20/21 07:30	08/20/21 19:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 19:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 19:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		08/20/21 07:30	08/20/21 19:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 19:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		08/20/21 07:30	08/20/21 19:04	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		08/20/21 07:30	08/20/21 19:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			08/20/21 07:30	08/20/21 19:04	1
1,4-Difluorobenzene (Surr)	91		70 - 130			08/20/21 07:30	08/20/21 19:04	1

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Lab Sample ID: 890-1125-11

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

Client Sample ID: PH06

Date Collected: 08/16/21 16:25 Date Received: 08/18/21 16:40

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/20/21 08:28	08/20/21 18:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/20/21 08:28	08/20/21 18:33	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/20/21 08:28	08/20/21 18:33	1
Total TPH	<50.0	U	50.0	mg/Kg		08/20/21 08:28	08/20/21 18:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			08/20/21 08:28	08/20/21 18:33	1
o-Terphenyl	123		70 - 130			08/20/21 08:28	08/20/21 18:33	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19700		100	mg/Kg			08/20/21 18:00	20

Lab Sample ID: 890-1125-12 **Client Sample ID: PH06** Matrix: Solid

Date Collected: 08/16/21 16:33

Date Received: 08/18/21 16:40

Sample Depth: 6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00303	*_	0.00200	mg/Kg		08/20/21 07:30	08/20/21 19:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 19:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 19:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		08/20/21 07:30	08/20/21 19:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 19:25	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		08/20/21 07:30	08/20/21 19:25	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		08/20/21 07:30	08/20/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			08/20/21 07:30	08/20/21 19:25	1
1,4-Difluorobenzene (Surr)	76		70 - 130			08/20/21 07:30	08/20/21 19:25	1
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics	•	Qualifier	RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 08/20/21 08:28	Analyzed 08/20/21 18:54	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U			<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	08/20/21 08:28 08/20/21 08:28	08/20/21 18:54 08/20/21 18:54	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 08:28 08/20/21 08:28 08/20/21 08:28	08/20/21 18:54 08/20/21 18:54 08/20/21 18:54	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	08/20/21 08:28 08/20/21 08:28	08/20/21 18:54 08/20/21 18:54	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 08:28 08/20/21 08:28 08/20/21 08:28	08/20/21 18:54 08/20/21 18:54 08/20/21 18:54	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 08:28 08/20/21 08:28 08/20/21 08:28 08/20/21 08:28	08/20/21 18:54 08/20/21 18:54 08/20/21 18:54 08/20/21 18:54	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 08:28 08/20/21 08:28 08/20/21 08:28 08/20/21 08:28 Prepared	08/20/21 18:54 08/20/21 18:54 08/20/21 18:54 08/20/21 18:54 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 08:28 08/20/21 08:28 08/20/21 08:28 08/20/21 08:28 Prepared 08/20/21 08:28	08/20/21 18:54 08/20/21 18:54 08/20/21 18:54 08/20/21 18:54 Analyzed 08/20/21 18:54	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/20/21 08:28 08/20/21 08:28 08/20/21 08:28 08/20/21 08:28 Prepared 08/20/21 08:28	08/20/21 18:54 08/20/21 18:54 08/20/21 18:54 08/20/21 18:54 Analyzed 08/20/21 18:54	Dil Fac

Surrogate Summary

Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

SDG: 31402909.080

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-1125-1	PH01	105	96	
390-1125-1 MS	PH01	103	87	
390-1125-1 MSD	PH01	92	101	
390-1125-2	PH01	152 S1+	91	
390-1125-3	PH02	113	104	
390-1125-4	PH02	101	87	
390-1125-5	PH03	98	106	
390-1125-6	PH03	107	105	
390-1125-7	PH04	100	85	
390-1125-8	PH04	98	101	
390-1125-9	PH05	97	93	
390-1125-10	PH05	84	84	
390-1125-11	PH06	114	91	
390-1125-12	PH06	114	76	
CS 880-6785/1-A	Lab Control Sample	93	83	
CSD 880-6785/2-A	Lab Control Sample Dup	106	95	
MB 880-6785/5-A	Method Blank	103	84	

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

DFBZ = 1,4-Difluorobenzene (Surr)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-5187-A-1-H MS	Matrix Spike	79	83	
880-5187-A-1-I MSD	Matrix Spike Duplicate	78	84	
880-5187-A-5-E MS	Matrix Spike	115	111	
880-5187-A-5-F MSD	Matrix Spike Duplicate	89	9 S1-	
880-5187-A-7-E MS	Matrix Spike	94	96	
880-5187-A-7-F MSD	Matrix Spike Duplicate	95	98	
390-1125-1	PH01	84	97	
390-1125-2	PH01	84	97	
390-1125-3	PH02	86	100	
390-1125-4	PH02	84	97	
390-1125-5	PH03	86	99	
390-1125-6	PH03	84	97	
390-1125-7	PH04	102	105	
390-1125-8	PH04	107	107	
390-1125-9	PH05	85	84	
390-1125-10	PH05	98	99	
390-1125-11	PH06	107	123	
890-1125-12	PH06	102	115	
_CS 880-6805/2-A	Lab Control Sample	86	95	
CS 880-6833/2-A	Lab Control Sample	89	80	
CS 880-6834/2-A	Lab Control Sample	114	124	
LCSD 880-6805/3-A	Lab Control Sample Dup	95	107	

Surrogate Summary

Client: WSP USA Inc.

Job ID: 890-1125-1

Project/Site: Battle Ax Water Well

SDG: 31402909.080

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCSD 880-6833/3-A	Lab Control Sample Dup	104	103	
LCSD 880-6834/3-A	Lab Control Sample Dup	113	120	
MB 880-6805/1-A	Method Blank	89	104	
MB 880-6833/1-A	Method Blank	106	111	
MB 880-6834/1-A	Method Blank	105	120	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: WSP USA Inc. Project/Site: Battle Ax Water Well

Job ID: 890-1125-1 SDG: 31402909.080

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6785/5-A

Matrix: Solid

Total BTEX

Analysis Batch: 6831

Client	Sampl	e ID:	Method	Blank

08/20/21 11:11

Prep Type: Total/NA

Prep Batch: 6785

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 11:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 11:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 11:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/20/21 07:30	08/20/21 11:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/20/21 07:30	08/20/21 11:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/20/21 07:30	08/20/21 11:11	1

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103	70 - 130	08/20/21 07:30	08/20/21 11:11	1
1,4-Difluorobenzene (Surr)	84	70 - 130	08/20/21 07:30	08/20/21 11:11	1

0.00400

Lab Sample ID: LCS 880-6785/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 6831

08/20/21 07:30

Prep Type: Total/NA

Prep Batch: 6785

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08058		mg/Kg	_	81	70 - 130	
Toluene	0.100	0.07698		mg/Kg		77	70 - 130	
Ethylbenzene	0.100	0.08496		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	0.200	0.1482		mg/Kg		74	70 - 130	
o-Xylene	0.100	0.07292		mg/Kg		73	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1.4-Difluorobenzene (Surr)	83	70 - 130

Lab Sample ID: LCSD 880-6785/2-A

Matrix: Solid

Analysis Batch: 6831

Cilent	Sample	ID: Lab	Control	Sample	טup

Prep Type: Total/NA

Prep Batch: 6785

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08021		mg/Kg		80	70 - 130	0	35
Toluene	0.100	0.08665		mg/Kg		87	70 - 130	12	35
Ethylbenzene	0.100	0.09404		mg/Kg		94	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1726		mg/Kg		86	70 - 130	15	35
o-Xylene	0.100	0.08547		mg/Kg		85	70 - 130	16	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: 890-1125-1 MS

Matrix: Solid

Analysis Batch: 6831

Client Sample ID: PH01	
Prep Type: Total/NA	
Prep Batch: 6785	

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00199 U*-F1 0.100 0.09015 mg/Kg 89 70 - 130

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1125-1 MS **Client Sample ID: PH01 Matrix: Solid**

Prep Type: Total/NA **Analysis Batch: 6831** Prep Batch: 6785 Snike MS MS Sample Sample

	Sample	Sample	Spike	IVIO	IVIO				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00199	U	0.100	0.08233		mg/Kg		81	70 - 130	
Ethylbenzene	< 0.00199	U	0.100	0.07997		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1579		mg/Kg		79	70 - 130	
o-Xylene	< 0.00199	U F1	0.100	0.07524		mg/Kg		75	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 103 1,4-Difluorobenzene (Surr) 87 70 - 130

Lab Sample ID: 890-1125-1 MSD **Client Sample ID: PH01**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 6831** Prep Batch: 6785

MSD MSD RPD Spike %Rec. Sample Sample Limit Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Benzene <0.00199 U*- F1 0.0998 0.08072 80 35 mg/Kg 70 - 130 11 Toluene <0.00199 U 0.0998 0.07216 71 70 - 130 mg/Kg 13 35 Ethylbenzene 0.0998 0.07295 70 - 130 <0.00199 U mg/Kg 72 9 35 0.200 65 70 - 130 m-Xylene & p-Xylene <0.00398 UF1 0.1306 F1 mg/Kg 19 35

0.06195 F1

mg/Kg

62

70 - 130

19

0.0998

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 92 101 70 - 130 1,4-Difluorobenzene (Surr)

<0.00199 UF1

o-Xylene

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-6805/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 6837** Prep Batch: 6805

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/19/21 13:10	08/20/21 10:38	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/19/21 13:10	08/20/21 10:38	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/19/21 13:10	08/20/21 10:38	1
Total TPH	<50.0	U	50.0	mg/Kg		08/19/21 13:10	08/20/21 10:38	1

	MB MB				
Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89	70 - 130	08/19/21 13:10	08/20/21 10:38	1
o-Terphenyl	104	70 - 130	08/19/21 13:10	08/20/21 10:38	1

Lab Sample ID: LCS 880-6805/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 6837** Prep Batch: 6805 LCS LCS Spike %Rec.

Analyte Added Result Qualifier Unit %Rec Limits 1000 780.0 78 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10

Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-6805/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 6837** Prep Batch: 6805

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits D 1000 958.0 96 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

LCS LCS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 86 o-Terphenyl 95 70 - 130

Lab Sample ID: LCSD 880-6805/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 6837** Prep Batch: 6805

LCSD LCSD RPD Spike %Rec. Result Qualifier Limit Analyte Added Unit D %Rec Limits RPD 1000 842.4 84 70 - 130 20 Gasoline Range Organics mg/Kg 8 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1081 mg/Kg 108 70 - 130 12 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 95 70 - 130 o-Terphenyl 107 70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 880-5187-A-1-H MS **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6837

Analysis Batom 6001										op Batom coo	•
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U F1	995	690.6	F1	mg/Kg		69	70 - 130		_
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	995	757.2		mg/Kg		76	70 - 130		

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	79		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-5187-A-1-I MSD

Matrix:

Analysi

: Solid				Prep Type: Total/NA
sis Batch: 6837				Prep Batch: 6805
	Cample Cample	Cuiles	MCD MCD	0/ Doo DDD

Spike RPD Sample Sample MSD %Rec. Analyte Result Qualifier RPD Limit Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U F1 998 682.1 F1 mg/Kg 68 70 - 130 20 (GRO)-C6-C10 <50.0 U 998 762.6 76 70 - 130 20 Diesel Range Organics (Over mg/Kg C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	84		70 - 130

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Client Sample ID: Matrix Spike Duplicate

Prep Batch: 6805

Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well

SDG: 31402909.080

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-6833/1-A

Matrix: Solid Analysis Batch: 6841 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 6833

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 11:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 11:28	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 11:28	1
Total TPH	<50.0	U	50.0	mg/Kg		08/20/21 08:26	08/20/21 11:28	1

мв мв

MD MD

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106	70 - 130	08/20/21 08:26	08/20/21 11:28	1
o-Terphenyl	111	70 - 130	08/20/21 08:26	08/20/21 11:28	1

Lab Sample ID: LCS 880-6833/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 6841

Prep Batch: 6833 Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1005 100 70 - 130 mg/Kg (GRO)-C6-C10

787.4

mg/Kg

79

70 - 130

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 6833

1000

Diesel Range Organics (Over C10-C28)

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 80 70 - 130

Lab Sample ID: LCSD 880-6833/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 6841

Prep Batch: 6833 LCSD LCSD RPD Spike %Rec. Added Analyte Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 829.6 83 70 - 13019 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 872.7 mg/Kg 87 70 - 13010 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 104 70 - 130 o-Terphenyl 103

Lab Sample ID: 880-5187-A-5-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 6841

1	Analysis Batom 6041										op Batom	. 0000
l		Sample	Sample	Spike	MS	MS				%Rec.		
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
	Gasoline Range Organics	<50.0	U	995	885.9		mg/Kg		87	70 - 130		
l	(GRO)-C6-C10											
l	Diesel Range Organics (Over	<50.0	U	995	946.3		mg/Kg		93	70 - 130		
ı	C10-C28)											

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 6833

Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-5187-A-5-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 6841

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 115 70 - 130 o-Terphenyl 111 70 - 130

Lab Sample ID: 880-5187-A-5-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 6841									Pre	p Batch:	: 6833
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	998	962.1		mg/Kg		94	70 - 130	8	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	998	812.7		mg/Kg		80	70 - 130	15	20
C10-C28)											

MSD MSD Surrogate %Recovery Qualifier Limits 89 70 - 130 1-Chlorooctane o-Terphenyl 9 S1-70 - 130

MB MB

Lab Sample ID: MB 880-6834/1-A

Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 6843** Prep Batch: 6834

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		08/20/21 08:28	08/20/21 11:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		08/20/21 08:28	08/20/21 11:28	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/20/21 08:28	08/20/21 11:28	1
Total TPH	<50.0	U	50.0	mg/Kg		08/20/21 08:28	08/20/21 11:28	1

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105	70 - 130	08/20/21 08:28	08/20/21 11:28	1
o-Terphenyl	120	70 - 130	08/20/21 08:28	08/20/21 11:28	1

Lab Sample ID: LCS 880-6834/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 6843

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1016		mg/Kg		102	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	973.4		mg/Kg		97	70 - 130	
C10-C28)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	124		70 - 130

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Prep Type: Total/NA

Prep Batch: 6834

Lab Sample ID: LCSD 880-6834/3-A

Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6834

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	947.8		mg/Kg		95	70 - 130	7	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	947.2		mg/Kg		95	70 - 130	3	20

C10-C28)

Matrix: Solid

Analysis Batch: 6843

LCSD LCSD

Sample Sample

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 880-5187-A-7-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 6843

Prep Type: Total/NA

Prep Batch: 6834

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <50.0 U 995 926.1 90 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 995 810.0 mg/Kg 79 70 - 130 C10-C28)

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	96	70 - 130

Lab Sample ID: 880-5187-A-7-F MSD Client Sample ID: Matrix Spike Duplicate

Snika

Matrix: Solid

Analysis Batch: 6843

Prep Type: Total/NA Prep Batch: 6834

	Gampic	Cumpic	Opino	WOD	WOD				/orteo.		IXI D	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.0	U	998	964.1		mg/Kg		94	70 - 130	4	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.0	U	998	796.7		mg/Kg		78	70 - 130	2	20	
C10-C28)												

MSD MSD

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 95 70 - 130 98 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6853/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6865

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			08/20/21 16:12	1

Job ID: 890-1125-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: 31402909.080

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-6853/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6865

LCS LCS %Rec. Spike Analyte Added Result Qualifier %Rec Limits Unit D Chloride 250 262.4 mg/Kg 105 90 - 110

Lab Sample ID: LCSD 880-6853/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6865

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 262.2 mg/Kg 105 90 - 110 0

Lab Sample ID: 890-1130-A-15-D MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6865

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 107 248 329.7 mg/Kg 90 - 110

Lab Sample ID: 890-1130-A-15-E MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6865

MSD MSD RPD Spike %Rec. Sample Sample Added RPD Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Limit Chloride 107 248 358.0 101 90 - 110 20 mg/Kg

Lab Sample ID: MB 880-6856/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6866

MR MR

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U mg/Kg 08/20/21 17:10

Lab Sample ID: LCS 880-6856/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble Matrix: Solid**

Analysis Batch: 6866

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 253.2 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-6856/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 6866

LCSD LCSD RPD Spike %Rec. Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 250 254.8 mg/Kg 102 90 - 110 20

Lab Sample ID: 890-1125-7 MS **Client Sample ID: PH04 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 6866

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 14900 4950 21450 F1 mg/Kg 132 90 - 110

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Released to Imaging: 11/17/2021 10:17:45 AM

QC Sample Results

Client: WSP USA Inc.

Job ID: 890-1125-1

Project/Site: Battle Ax Water Well

SDG: 31402909.080

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1125-7 MSD

Matrix: Solid

Client Sample ID: PH04

Prep Type: Soluble

Analysis Batch: 6866

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	14900	F1	4950	21490	F1	mg/Kg		133	90 - 110	0	20

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Client: WSP USA Inc.

Job ID: 890-1125-1

Project/Site: Battle Ax Water Well

SDG: 31402909.080

GC VOA

Prep Batch: 6785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1125-1	PH01	Total/NA	Solid	5035	
890-1125-2	PH01	Total/NA	Solid	5035	
890-1125-3	PH02	Total/NA	Solid	5035	
890-1125-4	PH02	Total/NA	Solid	5035	
890-1125-5	PH03	Total/NA	Solid	5035	
890-1125-6	PH03	Total/NA	Solid	5035	
890-1125-7	PH04	Total/NA	Solid	5035	
890-1125-8	PH04	Total/NA	Solid	5035	
890-1125-9	PH05	Total/NA	Solid	5035	
890-1125-10	PH05	Total/NA	Solid	5035	
890-1125-11	PH06	Total/NA	Solid	5035	
890-1125-12	PH06	Total/NA	Solid	5035	
MB 880-6785/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6785/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6785/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1125-1 MS	PH01	Total/NA	Solid	5035	
890-1125-1 MSD	PH01	Total/NA	Solid	5035	

Analysis Batch: 6831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1125-1	PH01	Total/NA	Solid	8021B	6785
890-1125-2	PH01	Total/NA	Solid	8021B	6785
890-1125-3	PH02	Total/NA	Solid	8021B	6785
890-1125-4	PH02	Total/NA	Solid	8021B	6785
890-1125-5	PH03	Total/NA	Solid	8021B	6785
890-1125-6	PH03	Total/NA	Solid	8021B	6785
890-1125-7	PH04	Total/NA	Solid	8021B	6785
890-1125-8	PH04	Total/NA	Solid	8021B	6785
890-1125-9	PH05	Total/NA	Solid	8021B	6785
890-1125-10	PH05	Total/NA	Solid	8021B	6785
890-1125-11	PH06	Total/NA	Solid	8021B	6785
890-1125-12	PH06	Total/NA	Solid	8021B	6785
MB 880-6785/5-A	Method Blank	Total/NA	Solid	8021B	6785
LCS 880-6785/1-A	Lab Control Sample	Total/NA	Solid	8021B	6785
LCSD 880-6785/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6785
890-1125-1 MS	PH01	Total/NA	Solid	8021B	6785
890-1125-1 MSD	PH01	Total/NA	Solid	8021B	6785

GC Semi VOA

Prep Batch: 6805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1125-1	PH01	Total/NA	Solid	8015NM Prep	
890-1125-2	PH01	Total/NA	Solid	8015NM Prep	
890-1125-3	PH02	Total/NA	Solid	8015NM Prep	
890-1125-4	PH02	Total/NA	Solid	8015NM Prep	
890-1125-5	PH03	Total/NA	Solid	8015NM Prep	
890-1125-6	PH03	Total/NA	Solid	8015NM Prep	
MB 880-6805/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6805/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6805/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

GC Semi VOA (Continued)

Prep Batch: 6805 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5187-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5187-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 6833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1125-7	PH04	Total/NA	Solid	8015NM Prep	
890-1125-8	PH04	Total/NA	Solid	8015NM Prep	
890-1125-9	PH05	Total/NA	Solid	8015NM Prep	
890-1125-10	PH05	Total/NA	Solid	8015NM Prep	
MB 880-6833/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6833/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6833/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5187-A-5-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5187-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 6834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1125-11	PH06	Total/NA	Solid	8015NM Prep	
890-1125-12	PH06	Total/NA	Solid	8015NM Prep	
MB 880-6834/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6834/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5187-A-7-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5187-A-7-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1125-1	PH01	Total/NA	Solid	8015B NM	6805
890-1125-2	PH01	Total/NA	Solid	8015B NM	6805
890-1125-3	PH02	Total/NA	Solid	8015B NM	6805
890-1125-4	PH02	Total/NA	Solid	8015B NM	6805
890-1125-5	PH03	Total/NA	Solid	8015B NM	6805
890-1125-6	PH03	Total/NA	Solid	8015B NM	6805
MB 880-6805/1-A	Method Blank	Total/NA	Solid	8015B NM	6805
LCS 880-6805/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6805
LCSD 880-6805/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6805
880-5187-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	6805
880-5187-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6805

Analysis Batch: 6841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1125-7	PH04	Total/NA	Solid	8015B NM	6833
890-1125-8	PH04	Total/NA	Solid	8015B NM	6833
890-1125-9	PH05	Total/NA	Solid	8015B NM	6833
890-1125-10	PH05	Total/NA	Solid	8015B NM	6833
MB 880-6833/1-A	Method Blank	Total/NA	Solid	8015B NM	6833
LCS 880-6833/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6833
LCSD 880-6833/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6833
880-5187-A-5-E MS	Matrix Spike	Total/NA	Solid	8015B NM	6833
880-5187-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6833

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Client: WSP USA Inc. Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

GC Semi VOA

Analysis Batch: 6843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1125-11	PH06	Total/NA	Solid	8015B NM	6834
890-1125-12	PH06	Total/NA	Solid	8015B NM	6834
MB 880-6834/1-A	Method Blank	Total/NA	Solid	8015B NM	6834
LCS 880-6834/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6834
LCSD 880-6834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6834
880-5187-A-7-E MS	Matrix Spike	Total/NA	Solid	8015B NM	6834
880-5187-A-7-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6834

HPLC/IC

Leach Batch: 6853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1125-1	PH01	Soluble	Solid	DI Leach	_
890-1125-2	PH01	Soluble	Solid	DI Leach	
890-1125-3	PH02	Soluble	Solid	DI Leach	
890-1125-4	PH02	Soluble	Solid	DI Leach	
890-1125-5	PH03	Soluble	Solid	DI Leach	
890-1125-6	PH03	Soluble	Solid	DI Leach	
MB 880-6853/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6853/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6853/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1130-A-15-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1130-A-15-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 6856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1125-7	PH04	Soluble	Solid	DI Leach	
890-1125-8	PH04	Soluble	Solid	DI Leach	
890-1125-9	PH05	Soluble	Solid	DI Leach	
890-1125-10	PH05	Soluble	Solid	DI Leach	
890-1125-11	PH06	Soluble	Solid	DI Leach	
890-1125-12	PH06	Soluble	Solid	DI Leach	
MB 880-6856/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6856/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6856/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1125-7 MS	PH04	Soluble	Solid	DI Leach	
890-1125-7 MSD	PH04	Soluble	Solid	DI Leach	

Analysis Batch: 6865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1125-1	PH01	Soluble	Solid	300.0	6853
890-1125-2	PH01	Soluble	Solid	300.0	6853
890-1125-3	PH02	Soluble	Solid	300.0	6853
890-1125-4	PH02	Soluble	Solid	300.0	6853
890-1125-5	PH03	Soluble	Solid	300.0	6853
890-1125-6	PH03	Soluble	Solid	300.0	6853
MB 880-6853/1-A	Method Blank	Soluble	Solid	300.0	6853
LCS 880-6853/2-A	Lab Control Sample	Soluble	Solid	300.0	6853
LCSD 880-6853/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6853
890-1130-A-15-D MS	Matrix Spike	Soluble	Solid	300.0	6853
890-1130-A-15-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6853

Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

SDG: 31402909.080

HPLC/IC

Analysis Batch: 6866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1125-7	PH04	Soluble	Solid	300.0	6856
890-1125-8	PH04	Soluble	Solid	300.0	6856
890-1125-9	PH05	Soluble	Solid	300.0	6856
890-1125-10	PH05	Soluble	Solid	300.0	6856
890-1125-11	PH06	Soluble	Solid	300.0	6856
890-1125-12	PH06	Soluble	Solid	300.0	6856
MB 880-6856/1-A	Method Blank	Soluble	Solid	300.0	6856
LCS 880-6856/2-A	Lab Control Sample	Soluble	Solid	300.0	6856
LCSD 880-6856/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6856
890-1125-7 MS	PH04	Soluble	Solid	300.0	6856
890-1125-7 MSD	PH04	Soluble	Solid	300.0	6856

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Client: WSP USA Inc.

Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

Client Sample ID: PH01

Date Collected: 08/16/21 10:10 Date Received: 08/18/21 16:40 Lab Sample ID: 890-1125-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	6785	08/20/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/20/21 11:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6805	08/20/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6837	08/20/21 13:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6853	08/20/21 10:51	SC	XEN MID
Soluble	Analysis	300.0		20			6865	08/20/21 18:34	CH	XEN MID

Client Sample ID: PH01

Date Collected: 08/16/21 12:25 Date Received: 08/18/21 16:40 Lab Sample ID: 890-1125-2

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6785	08/20/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/20/21 12:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	6805	08/20/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6837	08/20/21 14:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6853	08/20/21 10:51	SC	XEN MID
Soluble	Analysis	300.0		1			6865	08/20/21 18:39	CH	XEN MID

Client Sample ID: PH02

Date Collected: 08/16/21 13:02 Date Received: 08/18/21 16:40

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	6785	08/20/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/20/21 12:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6805	08/20/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6837	08/20/21 15:02	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	6853	08/20/21 10:51	SC	XEN MID
Soluble	Analysis	300.0		50			6865	08/20/21 18:45	CH	XEN MID

Client Sample ID: PH02

Date Collected: 08/16/21 14:15

Date Received: 08/18/21 16:40

Lab	Sample	ID:	890-1125-4	
			Matrix: Solid	

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	6785	08/20/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/20/21 12:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6805	08/20/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6837	08/20/21 15:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	6853	08/20/21 10:51	SC	XEN MID
Soluble	Analysis	300.0		20			6865	08/20/21 18:51	CH	XEN MID

Job ID: 890-1125-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: 31402909.080

Client Sample ID: PH03 Lab Sample ID: 890-1125-5

Date Collected: 08/16/21 14:30 Matrix: Solid Date Received: 08/18/21 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6785	08/20/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/20/21 15:58	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	6805	08/20/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6837	08/20/21 15:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6853	08/20/21 10:51	SC	XEN MID
Soluble	Analysis	300.0		50			6865	08/20/21 18:56	CH	XEN MID

Client Sample ID: PH03 Lab Sample ID: 890-1125-6 Date Collected: 08/16/21 15:00 **Matrix: Solid**

Date Received: 08/18/21 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	6785	08/20/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/20/21 16:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6805	08/20/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6837	08/20/21 16:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	6853	08/20/21 10:51	SC	XEN MID
Soluble	Analysis	300.0		1			6865	08/20/21 19:02	CH	XEN MID

Client Sample ID: PH04 Lab Sample ID: 890-1125-7

Date Collected: 08/16/21 15:22 **Matrix: Solid** Date Received: 08/18/21 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	6785	08/20/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/20/21 16:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	6833	08/20/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6841	08/20/21 20:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	6856	08/20/21 10:55	SC	XEN MID
Soluble	Analysis	300.0		20			6866	08/20/21 17:26	CH	XEN MID

Lab Sample ID: 890-1125-8 **Client Sample ID: PH04** Date Collected: 08/16/21 15:25

Date Received: 08/18/21 16:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	6785	08/20/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/20/21 17:00	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	6833	08/20/21 08:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6841	08/20/21 20:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	6856	08/20/21 10:55	SC	XEN MID
Soluble	Analysis	300.0		1			6866	08/20/21 17:43	CH	XEN MID

Eurofins Xenco, Carlsbad

Matrix: Solid

Client: WSP USA Inc.

Job ID: 890-1125-1 Project/Site: Battle Ax Water Well SDG: 31402909.080

Client Sample ID: PH05

Date Collected: 08/16/21 15:46 Date Received: 08/18/21 16:40

Lab Sample ID: 890-1125-9

Matrix: Solid

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.02 g 5 mL 6785 08/20/21 07:30 KL XEN MID Total/NA Analysis 8021B 1 5 mL 5 mL 6831 08/20/21 17:21 KL XEN MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 6833 08/20/21 08:26 DM XEN MID Total/NA Analysis 8015B NM 1 6841 08/20/21 20:59 AJ XEN MID Soluble Leach DI Leach 5.03 g 50 mL 6856 08/20/21 10:55 SC XEN MID Soluble Analysis 300.0 50 6866 08/20/21 17:49 СН XEN MID

Client Sample ID: PH05 Lab Sample ID: 890-1125-10 Date Collected: 08/16/21 16:08

Date Received: 08/18/21 16:40

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.99 g 5 mL 6785 08/20/21 07:30 KL XEN MID 8021B Total/NA 5 mL 6831 08/20/21 18:43 KL XEN MID Analysis 1 5 mL Total/NA Prep 8015NM Prep 10.00 q 10 mL 6833 08/20/21 08:26 DM XEN MID Total/NA 8015B NM Analysis 1 6841 08/20/21 21:20 ΑJ XEN MID Soluble DI Leach 5.05 g 50 mL 6856 08/20/21 10:55 SC XEN MID Leach Soluble Analysis 300.0 1 6866 08/20/21 17:54 CH XEN MID

Client Sample ID: PH06 Lab Sample ID: 890-1125-11

Date Collected: 08/16/21 16:25 **Matrix: Solid** Date Received: 08/18/21 16:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	6785	08/20/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/20/21 19:04	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	6834	08/20/21 08:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/20/21 18:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	6856	08/20/21 10:55	SC	XEN MID
Soluble	Analysis	300.0		20			6866	08/20/21 18:00	CH	XEN MID

Client Sample ID: PH06 Lab Sample ID: 890-1125-12 Date Collected: 08/16/21 16:33

Date Received: 08/18/21 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	6785	08/20/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	6831	08/20/21 19:25	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	6834	08/20/21 08:28	DM	XEN MID
Total/NA	Analysis	8015B NM		1			6843	08/20/21 18:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	6856	08/20/21 10:55	SC	XEN MID
Soluble	Analysis	300.0		1			6866	08/20/21 18:17	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-1125-1

Project/Site: Battle Ax Water Well

SDG: 31402909.080

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-20-21	06-30-22
The following analytes	are included in this report bu	t the leberatory is not cortific	and have the annual contraction of the south of Their Blad and	
the agency does not of	• •	t the laboratory is not certille	ed by the governing authority. This list ma	ay include analytes for
0 ,	• •	Matrix	ed by the governing authority. This list ma	ay include analytes for
the agency does not of	fer certification.	,	, , ,	ay include analytes for

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Method Summary

Client: WSP USA Inc.

Job ID: 890-1125-1 Project/Site: Battle Ax Water Well

SDG: 31402909.080

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

Job ID: 890-1125-1

SDG: 31402909.080

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1125-1	PH01	Solid	08/16/21 10:10	08/18/21 16:40	4
890-1125-2	PH01	Solid	08/16/21 12:25	08/18/21 16:40	16
890-1125-3	PH02	Solid	08/16/21 13:02	08/18/21 16:40	4
890-1125-4	PH02	Solid	08/16/21 14:15	08/18/21 16:40	15
890-1125-5	PH03	Solid	08/16/21 14:30	08/18/21 16:40	1
890-1125-6	PH03	Solid	08/16/21 15:00	08/18/21 16:40	8
890-1125-7	PH04	Solid	08/16/21 15:22	08/18/21 16:40	3
890-1125-8	PH04	Solid	08/16/21 15:25	08/18/21 16:40	4
890-1125-9	PH05	Solid	08/16/21 15:46	08/18/21 16:40	3
890-1125-10	PH05	Solid	08/16/21 16:08	08/18/21 16:40	8
890-1125-11	PH06	Solid	08/16/21 16:25	08/18/21 16:40	3
890-1125-12	PH06	Solid	08/16/21 16:33	08/18/21 16:40	6

Relinquished by: (Signature)

Received by: (Signature)

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

eurofins Xenco **Environment Testing**

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

www.xenco.com

Page

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NaOH+Ascorbic Acid: SAPC	_	_		<u> </u>	24	emperature:	Corrected Temperature:			otal Containers:
NaOH+Ascorbic Acid: SAPC	-			_ Y	200	Comporations.	Corrected T	-	4	otol Containora:
Zn Acetate+NaOH: Zn	Custody	890-1125 Chain of C			7.6	Reading:	N/A Temperature Reading:	No N/A		ample Custody Seals
Na ₂ S ₂ O ₃ : NaSO ₃					L		Correction Factor:	No MA	s: Yes	ooler Custody Seals
 NaHSO ₄ : NABIS					-NA-007	1	Thermometer ID:	es No	L	amples Received Intact
H ₃ PO ₄ : HP					Yes No	Wet ice:	(Yes No	Temp Blank:		AMPLE RECEIPT
										,#
H-SO. H- NaOH Na			xd Øp	3)	tay received by	TAT starts the day received by the lab. if received by 4:30pm		Ama Byers	Arms	ampler's Name:
<u>u</u>					3DAY	Due Date:		unity	Lea County	roject Location:
None: NO DI Water: H ₂ O)	de 3	Code	Routine	88	31402909.080	31402	roject Number:
Preservative Codes	UEST	ANALYSIS REQUEST	-			Turn Around	well	Battle Ax Water Well	Batta	roject Name:
			11	4						
ADaPT Other:	Deliverables: EDD	@ wsp.com		byers	anna.k	Email:	383	1 -	1-+18	hone:
PST/UST TRRP Level IV	Reporting: Level II Level III PST/UST TRRP				City, State ZIP:	5	SEPT XI		Midland	ity, State ZIP:
	State of Project:			<u> </u>	Address:	Þ	45	ح ح	3300 N	ddress:
] PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	ST				Company Name:	C)	JSA (WSP USA	ompany Name:
	Work Order Comments			+	Bill to: (if different)	В		Jenning	Kale	roject Manager:

SAMPLE RECEIPT

Sampler's Name: Project Location: Project Number City, State ZIP: Address: Company Name:

Kale Jennings

eurofins

Xenco

Environment Testing

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Chain of Custody TX (281) 240-4200, Dallas, TX (214) 90

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 888-3199

Work Order No:

www.xenco.com Page 2 of 2
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:

Phone:

City, State ZIP:

Company Name: Address:

Midland

WSP USA

alex

Jennings

Project Name:
Project Number:

314/629/69, 88%

Routine

Pres. Code

ANALYSIS REQUEST

None: NO

DI Water: H₂O

Preservative Codes

Turn Around

817-683-2303

50th

City, State ZIP:

Bill to: (if different)
Company Name:

Samples Received Intact: Yes No. Well ces: Yes

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Eurofins Xenco, Carlsbad

1089 N Canal St.

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Chain of Custody Record

🐝 eurofins |

Environment Testing

State, Zip: TX 79701 PH04 (890-1125-7) Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 PH04 (890-1125-8) PH03 (890-1125-6) PH03 (890-1125-5) PH02 (890-1125-4) PH02 (890-1125-3) PH01 (890-1125-2) PH01 (890-1125-1) Sample Identification - Client ID (Lab ID) 432-704-5440(Tel) Empty Kit Relinquished by PH05 (890-1125-9) Battle Ax Water Well Midland ossible Hazard Identification ote Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently aintiain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC. 211 W Florida Ave elinquished by: eliverable Requested I II III IV Other (specify) oject Name: linquished by linquished by urofins Xenco ipping/Receiving lient Information E (Sub Contract Lab) Custody Seal No Ž K <u>ء</u> ز Project # 89000048 TAT Requested (days) Phone Primary Deliverable Rank Due Date Requested 8/16/21 8/16/21 8/16/21 8/16/21 8/16/21 8/16/21 8/16/21 8/16/21 8/16/21 Mountain 15 46 Mountain 15 25 Mountain 14 30 Mountain 12 25 Date Mountain Mountain 15 22 Mountain 15 00 Mountain 13 02 Mountain 14 15 10 10 (C=comp, G=grab Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Kramer Jessica E-Mail essica.kramer@eurofinset.com Field Filtered Sample (Yes or No) Accreditations Required (See note):
NELAP - Louisiana NELAP - Texas Ime Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Petring To Clear Disposed But I sh Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Received by 8015MOD_NM/8015NM_S_Prep Full TPH Cooler Temperature(s) °C and Other Remarks. Received by \times × × × \times \times × Return To Client × × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × 8021B/5035FP_Calc BTEX × × × × × × × × × **Analysis Requested** Disposal By Lab New Mexico State of Origin Carrier Tracking No(s) Method of Shipment Date/Time Archive For Total Number of containers مدن. محمو sille, A HCL
B-NaOH
C Zn Ace
D Nitric A
E NaHSC
F MeOH
G Amchic
H Ascorb COC No. 890-359 1 Preservation Codes 890-1125-Page 1 of 2 ice
DI Water
EDTA
EDA Zn Acetate Nitric Acid NaHSO4 MeOH Amchlor Ascorbic Acid Special Instructions/Note DOZZ Company N Hexane

AsNaO2

Na2O4S

Na2SO3

Na2SO3

Na2SO3

Na2SO3

Na2SO3

Na2SO4

Na2SO4

Na2SO4

Na2SO4

Na2SO4

Na2SO4

Na2SO4 Company other (specify) pH 4-5 MCAA Months

Ver: 06/08/202

1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax. 575-988-3199

Eurofins Xenco, Carlsbad

Chain of Custody Record

Client Information (Sub Contract Lab)	zanipici		Krame	Kramer Jessica	CG.			ı	Ω	Carrier Tracking No(s)	acking i	lo(s)			COC No 890-359 2	
ceiving	Phone:		jessic	E-Mail jessica kramer@eurofinset com	ir@eur	ofinset	COM		ZΩ	State of Origin New Mexico	xico				Page Page 2 of 2	
Company Eurofins Xenco				Accreditations Required (See note) NELAP - Louisiana NELAP	ons Req Louis	uired (Si	e note)	- Texas	L				ĺ		Job#: 890-1125-1	
Address 1211 W Florida Ave	Due Date Requested 8/20/2021							/sis	Requested	estec	_				Preservation Codes	les
City- Midland	TAT Requested (days)						\dashv		4	\dashv		4			A HCL B NaOH	
State Zip TX, 79701				engragiang vertra Betaling Vertra disercioni											D Nitric Acid	P Na2O4S Q Na2SO3
Phone 432-704-5440(Tel)	PO#			T.										on and tra		
	WO #:			lo)										5)*	J DI Water	U Acetone V MCAA
Project Name: Battle Ax Water Well	Project #: 89000048			s or l		ΕX								ainer	K EDTA L EDA	W pH 4-5 Z other (specify)
	SSOW#			D (Ye		ic BT								cont	Other:	
		Sample	Matrix (w=water	Filtered Sammer MS/MS	RGFM_28D	/6035FP_Ca								Number of		
Sample Identification - Client ID (Lab ID)	Sample Date	Time G=grab)	BT=Tissue, A=Air)	Pe		802				-				Tot	Special In	Special Instructions/Note
	X		Preservation Code:	X		Santa Santa		Bayers James			Tario di			X		
PH05 (890-1125-10)	8/16/21 M	Mountain	Solid		×	×								1 41		
PH06 (890-1125-11)	8/16/21 M	16 25 ountain	Solid		× ×	×								1998		
PH06 (890-1125-12)	8/16/21 M	16 33 Mountain	Solid		×	×								aus.		
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Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC alboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.	ces the ownership of m ng analyzed the sampl igned Chain of Custod	ethod analyte & acc es must be shipped l y attesting to said col	reditation complianc back to the Eurofins nplicance to Eurofin	e upon out Xenco LLC S Xenco LL	subcont laborato	ract labo	ratories. er instru	This sa	ill be pr	ipment ovided	is forwa Any ch	rded ur anges t	ider ch	ain-of-o	custody If the laborate status should be bro	tory does not currently rught to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed				Sam	ole Dis	le Disposal (A f	Sample Disposal (A fee	may	⊔ ass	assessed if san	if sa	nples	are r	etain	may be assessed if samples are retained longer than 1 month)	month)
Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank	Rank 2		Speci	al Inst	ruction	Special Instructions/QC R	equirements	ments			ľ				monno
Empty Kit Relinquished by	Date	te		Time		ľ				Met	Method of Shipment:	hipme	Ħ			
Relinquished by Owe Con F. 19	2 Date Time		Company		Received by	1/2 1/2				ŀ		Date/Time	3	-	2	Company
	Date/Time		Company	Z	Received by	by C			1			Date/Time	me 2	-		Company
	Date/Time [.]		Company	Z	Received by:	by:						Date/Time	me			Company
Custody Seals Intact Custody Seal No				S	ooler Tei	Cooler Temperature(s) °C		and Other Remarks.	er Rema	rks.						

eurofins Environment Testing

Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1125-1 SDG Number: 31402909.080

List Source: Eurofins Xenco, Carlsbad

List Number: 1

Login Number: 1125

Creator: Olivas, Nathaniel

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1125-1 SDG Number: 31402909.080

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 08/20/21 10:57 AM

Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5/3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

3

4

6

8

10

12

14

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1240-1

Laboratory Sample Delivery Group: Lea County

Client Project/Site: Battle Ax Water Well

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Kalei Jennings

MAMER

Authorized for release by: 9/15/2021 12:52:47 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

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12

13

14

Client: WSP USA Inc.
Project/Site: Battle Ax Water Well

Laboratory Job ID: 890-1240-1 SDG: Lea County

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1240-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Qualifiers

GC VOA Qualifier

Qualifier Description S1-Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

Not Calculated NC

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 890-1240-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Job ID: 890-1240-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1240-1

Receipt

The samples were received on 9/9/2021 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS09 (890-1240-5). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-7797/2-A) and (890-1239-A-1-B). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Matrix: Solid

Lab Sample ID: 890-1240-1

Client: WSP USA Inc. Job ID: 890-1240-1

Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: SS05

Date Collected: 09/08/21 15:05 Date Received: 09/09/21 16:40

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:02	09/14/21 07:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:02	09/14/21 07:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:02	09/14/21 07:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/13/21 10:02	09/14/21 07:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:02	09/14/21 07:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/13/21 10:02	09/14/21 07:06	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/13/21 10:02	09/14/21 07:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			09/13/21 10:02	09/14/21 07:06	1
1,4-Difluorobenzene (Surr)	79		70 - 130			09/13/21 10:02	09/14/21 07:06	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 14:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 14:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 14:17	1
Total TPH	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			09/13/21 09:36	09/13/21 14:17	1
o-Terphenyl	112		70 - 130			09/13/21 09:36	09/13/21 14:17	1

Method: 300.0 - Anions, Ion Chrom	natography - So	oluble						
Analyte	Result Qu	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.3		5.00	mg/Kg			09/15/21 03:31	1

Client Sample ID: SS06 Date Collected: 09/08/21 15:10 Date Received: 09/09/21 16:40

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:02	09/14/21 07:26	
Toluene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:02	09/14/21 07:26	•
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:02	09/14/21 07:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/13/21 10:02	09/14/21 07:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:02	09/14/21 07:26	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/13/21 10:02	09/14/21 07:26	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/13/21 10:02	09/14/21 07:26	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			09/13/21 10:02	09/14/21 07:26	1
1,4-Difluorobenzene (Surr)	82		70 - 130			09/13/21 10:02	09/14/21 07:26	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1240-2

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1240-1

Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: SS06

Lab Sample ID: 890-1240-2 Date Collected: 09/08/21 15:10 Matrix: Solid

Date Received: 09/09/21 16:40 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		09/13/21 09:36	09/13/21 14:38	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		09/13/21 09:36	09/13/21 14:38	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/13/21 09:36	09/13/21 14:38	1
Total TPH	<49.9	U	49.9	mg/Kg		09/13/21 09:36	09/13/21 14:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			09/13/21 09:36	09/13/21 14:38	1
o-Terphenyl	118		70 - 130			09/13/21 09:36	09/13/21 14:38	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.2		4.98	mg/Kg			09/15/21 03:37	

Client Sample ID: SS07 Lab Sample ID: 890-1240-3

Date Collected: 09/08/21 15:25 Date Received: 09/09/21 16:40

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:02	09/14/21 07:47	1
Toluene	< 0.00199	U	0.00199	mg/Kg		09/13/21 10:02	09/14/21 07:47	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:02	09/14/21 07:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/13/21 10:02	09/14/21 07:47	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		09/13/21 10:02	09/14/21 07:47	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/13/21 10:02	09/14/21 07:47	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/13/21 10:02	09/14/21 07:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			09/13/21 10:02	09/14/21 07:47	1
1,4-Difluorobenzene (Surr)	83		70 - 130			09/13/21 10:02	09/14/21 07:47	1
Method: 8015B NM - Diesel Ranç Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier			D			Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 09/13/21 09:36	Analyzed 09/13/21 15:00	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U	49.9	mg/Kg	<u>D</u>	09/13/21 09:36	09/13/21 15:00	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U	49.9	mg/Kg	<u> </u>	09/13/21 09:36	09/13/21 15:00	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U U U	49.9	mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36	09/13/21 15:00 09/13/21 15:00	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36 09/13/21 09:36	09/13/21 15:00 09/13/21 15:00 09/13/21 15:00	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 09/13/21 09:36	09/13/21 15:00 09/13/21 15:00 09/13/21 15:00 09/13/21 15:00	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 <i>Limits</i>	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 Prepared	09/13/21 15:00 09/13/21 15:00 09/13/21 15:00 09/13/21 15:00 Analyzed	1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 Prepared 09/13/21 09:36	09/13/21 15:00 09/13/21 15:00 09/13/21 15:00 09/13/21 15:00 Analyzed 09/13/21 15:00	1 1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 Prepared 09/13/21 09:36	09/13/21 15:00 09/13/21 15:00 09/13/21 15:00 09/13/21 15:00 Analyzed 09/13/21 15:00	1 1 1 1 1 Dil Fac

Eurofins Xenco, Carlsbad

Matrix: Solid

Job ID: 890-1240-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: SS08

Date Collected: 09/08/21 15:45 Date Received: 09/09/21 16:40

Sample Depth: 0.5

Lab Sample ID: 890-1240-4

Matrix: Solid

Method: 8021B - Volatile Orga	nic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:02	09/14/21 08:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:02	09/14/21 08:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:02	09/14/21 08:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/13/21 10:02	09/14/21 08:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:02	09/14/21 08:07	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		09/13/21 10:02	09/14/21 08:07	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/13/21 10:02	09/14/21 08:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/13/21 10:02	09/14/21 08:07	1

1,4-Difluorobenzene (Surr) 70 - 130 09/13/21 10:02 09/14/21 08:07

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 15:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 15:22	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 15:22	1
Total TPH	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 15:22	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130			09/13/21 09:36	09/13/21 15:22	1

o-Terphenyl 121 70 - 130 09/13/21 09:36 09/13/21 15:22 Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 4.99 09/15/21 03:59 Chloride 20.6 mg/Kg

Client Sample ID: SS09 Lab Sample ID: 890-1240-5 Date Collected: 09/08/21 15:40 **Matrix: Solid**

Date Received: 09/09/21 16:40

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:02	09/14/21 08:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:02	09/14/21 08:28	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:02	09/14/21 08:28	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/13/21 10:02	09/14/21 08:28	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:02	09/14/21 08:28	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		09/13/21 10:02	09/14/21 08:28	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/13/21 10:02	09/14/21 08:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			09/13/21 10:02	09/14/21 08:28	1
1,4-Difluorobenzene (Surr)	55	S1-	70 - 130			09/13/21 10:02	09/14/21 08:28	1

Eurofins Xenco, Carlsbad

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-1240-1 SDG: Lea County

Project/Site: Battle Ax Water Well

Client Sample ID: SS09 Lab Sample ID: 890-1240-5 Date Collected: 09/08/21 15:40 Matrix: Solid Date Received: 09/09/21 16:40

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 15:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 15:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 15:43	1
Total TPH	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 15:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			09/13/21 09:36	09/13/21 15:43	1
o-Terphenyl	116		70 - 130			09/13/21 09:36	09/13/21 15:43	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			4.97					

Client Sample ID: SS10 Lab Sample ID: 890-1240-6 Matrix: Solid

Date Collected: 09/08/21 15:15 Date Received: 09/09/21 16:40

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:02	09/14/21 08:48	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:02	09/14/21 08:48	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:02	09/14/21 08:48	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/13/21 10:02	09/14/21 08:48	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:02	09/14/21 08:48	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/13/21 10:02	09/14/21 08:48	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/13/21 10:02	09/14/21 08:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			09/13/21 10:02	09/14/21 08:48	1
1,4-Difluorobenzene (Surr)	74		70 - 130			09/13/21 10:02	09/14/21 08:48	1
Method: 8015B NM - Diesel Ranç	• •	, , ,	DI	Unit	Б	Dronovod	Analyzad	Dil Eo
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics	• •	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 09/13/21 09:36	Analyzed 09/13/21 16:26	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U		mg/Kg	<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9		<u>D</u>	09/13/21 09:36	09/13/21 16:26	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	09/13/21 09:36	09/13/21 16:26	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36	09/13/21 16:26 09/13/21 16:26	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36 09/13/21 09:36	09/13/21 16:26 09/13/21 16:26 09/13/21 16:26	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 09/13/21 09:36	09/13/21 16:26 09/13/21 16:26 09/13/21 16:26 09/13/21 16:26	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics	Result	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 Prepared	09/13/21 16:26 09/13/21 16:26 09/13/21 16:26 09/13/21 16:26 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 Prepared 09/13/21 09:36	09/13/21 16:26 09/13/21 16:26 09/13/21 16:26 09/13/21 16:26 Analyzed 09/13/21 16:26	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 09/13/21 09:36 Prepared 09/13/21 09:36	09/13/21 16:26 09/13/21 16:26 09/13/21 16:26 09/13/21 16:26 Analyzed 09/13/21 16:26	Dil Fac

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1240-1 Project/Site: Battle Ax Water Well SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-5964-A-1-F MS	Matrix Spike	117	88	
880-5964-A-1-G MSD	Matrix Spike Duplicate	118	84	
890-1240-1	SS05	121	79	
890-1240-2	SS06	108	82	
890-1240-3	SS07	125	83	
890-1240-4	SS08	112	75	
890-1240-5	SS09	110	55 S1-	
890-1240-6	SS10	109	74	
LCS 880-7800/1-A	Lab Control Sample	116	88	
LCSD 880-7800/2-A	Lab Control Sample Dup	112	88	
MB 880-7798/5-A	Method Blank	112	79	
MB 880-7800/5-A	Method Blank	98	77	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
)-1239-A-1-C MS	Matrix Spike	114	118	
-1239-A-1-D MSD	Matrix Spike Duplicate	111	116	
-1240-1	SS05	106	112	
-1240-2	SS06	109	118	
-1240-3	SS07	122	125	
-1240-4	SS08	111	121	
1240-5	SS09	113	116	
1240-6	SS10	115	123	
8 880-7797/2-A	Lab Control Sample	127	131 S1+	
SD 880-7797/3-A	Lab Control Sample Dup	116	118	
3 880-7797/1-A	Method Blank	102	111	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-1240-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7798/5-A

Matrix: Solid

Analysis Batch: 7814

Client Sample	ID:	Method	Blank
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Prep Type: Total/NA

Prep Batch: 7798

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 09:54	09/13/21 14:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 09:54	09/13/21 14:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 09:54	09/13/21 14:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/13/21 09:54	09/13/21 14:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 09:54	09/13/21 14:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/13/21 09:54	09/13/21 14:06	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/13/21 09:54	09/13/21 14:06	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	09/13/21 09:54	09/13/21 14:06	1
1,4-Difluorobenzene (Surr)	79		70 - 130	09/13/21 09:54	09/13/21 14:06	1

Lab Sample ID: MB 880-7800/5-A

Matrix: Solid

Analysis Batch: 7814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7800

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	_	09/13/21 10:02	09/14/21 00:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:02	09/14/21 00:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:02	09/14/21 00:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/13/21 10:02	09/14/21 00:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:02	09/14/21 00:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/13/21 10:02	09/14/21 00:57	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/13/21 10:02	09/14/21 00:57	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/13/21 10:02	09/14/21 00:57	1
1,4-Difluorobenzene (Surr)	77		70 - 130	09/13/21 10:02	09/14/21 00:57	1

Lab Sample ID: LCS 880-7800/1-A

Matrix: Solid

Analysis Batch: 7814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 7800

l		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.09887		mg/Kg		99	70 - 130	
	Toluene	0.100	0.09103		mg/Kg		91	70 - 130	
	Ethylbenzene	0.100	0.09746		mg/Kg		97	70 - 130	
I	m-Xylene & p-Xylene	0.200	0.1997		mg/Kg		100	70 - 130	
	o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 _ 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Client: WSP USA Inc. Job ID: 890-1240-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-7800/2-A

Matrix: Solid

Analysis Batch: 7814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7800

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09422		mg/Kg		94	70 - 130	5	35
Toluene	0.100	0.08851		mg/Kg		89	70 - 130	3	35
Ethylbenzene	0.100	0.08945		mg/Kg		89	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1838		mg/Kg		92	70 - 130	8	35
o-Xylene	0.100	0.09190		mg/Kg		92	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1.4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-5964-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 7814**

Prep Batch: 7800

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.08982		mg/Kg		90	70 - 130	
Toluene	<0.00199	U	0.100	0.08552		mg/Kg		86	70 - 130	
Ethylbenzene	< 0.00199	U	0.100	0.08699		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1814		mg/Kg		91	70 - 130	
o-Xylene	<0.00199	U	0.100	0.09016		mg/Kg		90	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1 4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-5964-A-1-G MSD

Matrix: Solid

Analysis Batch: 7814

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7800

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0996	0.08402		mg/Kg		84	70 - 130	7	35
Toluene	<0.00199	U	0.0996	0.08184		mg/Kg		82	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.0996	0.08245		mg/Kg		83	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1711		mg/Kg		86	70 - 130	6	35
o-Xylene	<0.00199	U	0.0996	0.08533		mg/Kg		86	70 - 130	6	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	84	70 - 130

Client: WSP USA Inc. Job ID: 890-1240-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-7797/1-A

Matrix: Solid

Analysis Batch: 7790

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7797

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 10:45	1	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 10:45	1	
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 10:45	1	
Total TPH	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 10:45	1	

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	09/13/21 09:36	09/13/21 10:45	1
o-Terphenyl	111		70 - 130	09/13/21 09:36	09/13/21 10:45	1

Lab Sample ID: LCS 880-7797/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 7790 Prep Batch: 7797 LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 985.0 99 70 - 130 mg/Kg

1022

mg/Kg

1000

(GRO)-C6-C10 Diesel Range Organics (Over

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: LCSD 880-7797/3-A

Matrix: Solid

Analysis Batch: 7790

Client Sample ID: Lab Control Sample Dup

70 - 130

102

Prep Type: Total/NA Prep Batch: 7797

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1017		mg/Kg		102	70 - 130	3	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	916.9		mg/Kg		92	70 - 130	11	20	
C10-C28)										

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-1239-A-1-C MS

Matrix: Solid

Analysis Batch: 7790

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7797

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	1009		mg/Kg		101	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1009		mg/Kg		98	70 - 130	

Job ID: 890-1240-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1239-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 7790

Prep Type: Total/NA	
Prep Batch: 7797	

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-1239-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 7790

Prep Batcl	o: 7797	
Prep Type: To	otal/NA	\$

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.8 U 999 997.1 100 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 999 998.3 mg/Kg 97 70 - 13020 C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	116		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7767/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7831

	IVI D IVII	ID					
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			09/15/21 02:07	1

Lab Sample ID: LCS 880-7767/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7831

	Spike	LCS LCS				%Rec.	
Analyte	Added	Result Qualifie	r Unit	D	%Rec	Limits	
Chloride	250	260.5	ma/Ka		104	90 - 110	

Lab Sample ID: LCSD 880-7767/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7831

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	261.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-1240-3 MS **Client Sample ID: SS07 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7831

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec

Limits Chloride 39.7 250 301.6 90 - 110 mg/Kg 105

QC Sample Results

Job ID: 890-1240-1 Client: WSP USA Inc. Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1240-3 MSD Client Sample ID: SS07 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7831

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	39.7		250	302.1		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-1240-1

Project/Site: Battle Ax Water Well

SDG: Lea County

GC VOA

Prep Batch: 7798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7798/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 7800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1240-1	SS05	Total/NA	Solid	5035	
890-1240-2	SS06	Total/NA	Solid	5035	
890-1240-3	SS07	Total/NA	Solid	5035	
890-1240-4	SS08	Total/NA	Solid	5035	
890-1240-5	SS09	Total/NA	Solid	5035	
890-1240-6	SS10	Total/NA	Solid	5035	
MB 880-7800/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7800/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7800/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5964-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-5964-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 7814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1240-1	SS05	Total/NA	Solid	8021B	7800
890-1240-2	SS06	Total/NA	Solid	8021B	7800
890-1240-3	SS07	Total/NA	Solid	8021B	7800
890-1240-4	SS08	Total/NA	Solid	8021B	7800
890-1240-5	SS09	Total/NA	Solid	8021B	7800
890-1240-6	SS10	Total/NA	Solid	8021B	7800
MB 880-7798/5-A	Method Blank	Total/NA	Solid	8021B	7798
MB 880-7800/5-A	Method Blank	Total/NA	Solid	8021B	7800
LCS 880-7800/1-A	Lab Control Sample	Total/NA	Solid	8021B	7800
LCSD 880-7800/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7800
880-5964-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	7800
880-5964-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7800

GC Semi VOA

Analysis Batch: 7790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1240-1	SS05	Total/NA	Solid	8015B NM	7797
890-1240-2	SS06	Total/NA	Solid	8015B NM	7797
890-1240-3	SS07	Total/NA	Solid	8015B NM	7797
890-1240-4	SS08	Total/NA	Solid	8015B NM	7797
890-1240-5	SS09	Total/NA	Solid	8015B NM	7797
890-1240-6	SS10	Total/NA	Solid	8015B NM	7797
MB 880-7797/1-A	Method Blank	Total/NA	Solid	8015B NM	7797
LCS 880-7797/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7797
LCSD 880-7797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7797
890-1239-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	7797
890-1239-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7797

Prep Batch: 7797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1240-1	SS05	Total/NA	Solid	8015NM Prep	
890-1240-2	SS06	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

Page 15 of 25

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1240-1 Project/Site: Battle Ax Water Well SDG: Lea County

GC Semi VOA (Continued)

Prep Batch: 7797 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1240-3	SS07	Total/NA	Solid	8015NM Prep	
890-1240-4	SS08	Total/NA	Solid	8015NM Prep	
890-1240-5	SS09	Total/NA	Solid	8015NM Prep	
890-1240-6	SS10	Total/NA	Solid	8015NM Prep	
MB 880-7797/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7797/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1239-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1239-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1240-1	SS05	Soluble	Solid	DI Leach	_
890-1240-2	SS06	Soluble	Solid	DI Leach	
890-1240-3	SS07	Soluble	Solid	DI Leach	
890-1240-4	SS08	Soluble	Solid	DI Leach	
890-1240-5	SS09	Soluble	Solid	DI Leach	
890-1240-6	SS10	Soluble	Solid	DI Leach	
MB 880-7767/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7767/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7767/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1240-3 MS	SS07	Soluble	Solid	DI Leach	
890-1240-3 MSD	SS07	Soluble	Solid	DI Leach	

Analysis Batch: 7831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1240-1	SS05	Soluble	Solid	300.0	7767
890-1240-2	SS06	Soluble	Solid	300.0	7767
890-1240-3	SS07	Soluble	Solid	300.0	7767
890-1240-4	SS08	Soluble	Solid	300.0	7767
890-1240-5	SS09	Soluble	Solid	300.0	7767
890-1240-6	SS10	Soluble	Solid	300.0	7767
MB 880-7767/1-A	Method Blank	Soluble	Solid	300.0	7767
LCS 880-7767/2-A	Lab Control Sample	Soluble	Solid	300.0	7767
LCSD 880-7767/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7767
890-1240-3 MS	SS07	Soluble	Solid	300.0	7767
890-1240-3 MSD	SS07	Soluble	Solid	300.0	7767

Client: WSP USA Inc. Job ID: 890-1240-1

Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: SS05 Lab Sample ID: 890-1240-1

Date Collected: 09/08/21 15:05 Matrix: Solid Date Received: 09/09/21 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7800	09/13/21 10:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7814	09/14/21 07:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7790	09/13/21 14:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7767	09/10/21 14:24	СН	XEN MID
Soluble	Analysis	300.0		1			7831	09/15/21 03:31	CH	XEN MID

Client Sample ID: SS06 Lab Sample ID: 890-1240-2 **Matrix: Solid**

Date Collected: 09/08/21 15:10 Date Received: 09/09/21 16:40

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7800	09/13/21 10:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7814	09/14/21 07:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7790	09/13/21 14:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7767	09/10/21 14:24	CH	XEN MID
Soluble	Analysis	300.0		1			7831	09/15/21 03:37	CH	XEN MID

Client Sample ID: SS07 Lab Sample ID: 890-1240-3 **Matrix: Solid**

Date Collected: 09/08/21 15:25 Date Received: 09/09/21 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7800	09/13/21 10:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7814	09/14/21 07:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7790	09/13/21 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7767	09/10/21 14:24	СН	XEN MID
Soluble	Analysis	300.0		1			7831	09/15/21 03:43	CH	XEN MID

Client Sample ID: SS08 Lab Sample ID: 890-1240-4 Date Collected: 09/08/21 15:45

Date Received: 09/09/21 16:40

-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7800	09/13/21 10:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7814	09/14/21 08:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7790	09/13/21 15:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7767	09/10/21 14:24	CH	XEN MID
Soluble	Analysis	300.0		1			7831	09/15/21 03:59	CH	XEN MID

Eurofins Xenco, Carlsbad

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc.

Job ID: 890-1240-1

Project/Site: Battle Ax Water Well

SDG: Lea County

Client Sample ID: SS09

Lab Sample ID: 890-1240-5

Matrix: Solid

Date Collected: 09/08/21 15:40 Date Received: 09/09/21 16:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7800	09/13/21 10:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7814	09/14/21 08:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7790	09/13/21 15:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7767	09/10/21 14:24	CH	XEN MID
Soluble	Analysis	300.0		1			7831	09/15/21 04:05	CH	XEN MID

Client Sample ID: SS10

Date Collected: 09/08/21 15:15 Date Received: 09/09/21 16:40 Lab Sample ID: 890-1240-6 Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7800	09/13/21 10:02	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7814	09/14/21 08:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7790	09/13/21 16:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7767	09/10/21 14:24	CH	XEN MID
Soluble	Analysis	300.0		1			7831	09/15/21 04:22	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1240-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Job ID: 890-1240-1 Client: WSP USA Inc. Project/Site: Battle Ax Water Well

SDG: Lea County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

Job ID: 890-1240-1

SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1240-1	SS05	Solid	09/08/21 15:05	09/09/21 16:40	0.5
890-1240-2	SS06	Solid	09/08/21 15:10	09/09/21 16:40	0.5
890-1240-3	SS07	Solid	09/08/21 15:25	09/09/21 16:40	0.5
890-1240-4	SS08	Solid	09/08/21 15:45	09/09/21 16:40	0.5
890-1240-5	SS09	Solid	09/08/21 15:40	09/09/21 16:40	0.5
890-1240-6	SS10	Solid	09/08/21 15:15	09/09/21 16:40	0.5

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Revised Date 08/25/2020 Rev. 2020

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

9912 4:40

Date/Time

by: (Signature)

Relinquished by: (Signature)

Mhs

of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously regoldated.

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Environment Testing

eurofins

Xenco

Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Work Order No:

DI Water: H20 NaOH: Na Level IV MeOH: Me HNO 3: HN NaOH+Ascorbic Acid: SAPC Sample Comments Preservative Codes Zn Acetate+NaOH: Zn TI Sn U V Zn PST/UST TRRP 245.1 / 7470 / 7471 Na 25 20 3: NaSO 3 UST/PST | PRP | Brownfields | RRC NaHSO 4: NABIS Other: H3PO 4: HP None: NO H2504:H2 Cool: Cool HCL: HC Page_ Work Order Comments ADaPT [K Se Ag SiO₂ Na Sr www.xenco.com Reporting: Level II 🗌 Level III 🗍 Hg: 1631 / EDD State of Project: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Deliverables: TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 890-1240 Chain of Custody Program: ANALYSIS REQUEST Bill to: (if different) Will film: Kaller Jennings Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 (a) tusp, com Oh loride X X × X × 1288 BIEX(X 7 X X × Email: | QCNA . DJBS ((pow SIDB 40] 403 × Cont Pres. Code #of Parameters Stab Comp Company Name Grab/ City, State ZIP: 下ノンハース TAT starts the day received by the lab, if received by 4:30pm (es) No 3.4 Rush 0.1 Address: 9 6.5' Depth 6.5 6,5 5. 0 6.5 Turn Around Boutine Due Date: 1505 Corrected Temperature: 1545 1548 Wet Ice: Sampled 1515 1525 Temperature Reading: Time 1510 Hidland, TX 79705 Thermometer ID: Correction Factor: Street Battle Ax Wester Well (Yes) No Sampled 18/21 Date 817-683-2503 Kale Jennings Circle Method(s) and Metal(s) to be analyzed 3402909.080 Matrix Anna Byeis 0 Lea County Yes No (N/A Temp Blank: 200.8 / 6020: Yes No 338K N Yes No 2003 Sample Identification Samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT Project Manager: Project Number: **Fotal Containers:** Company Name sampler's Name: Project Location City, State ZIP: Project Name: SSØS 5506 5509 SSPT 82SS Address: Phone: # Od

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Carlsbad NM 88220

Eurofins Xenco, Carlsbad 1089 N Canal St

Chain of Custody Record

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Environment Testing

SS08 (890-1240-4) SS06 (890-1240-2) SS05 (890-1240-1) State Zip: TX 79701 SS10 (890-1240-6) SS09 (890-1240-5) SS07 (890-1240-3) Sample Identification - Client ID (Lab ID) 432-704-5440(Tel) ^oroject Name[.] Battle Ax Water Well Custody Seals Intact: lote. Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently laintial accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco the Eurofins Xenco LLC. /lidland hone 575-988-3199 Fax 575-988-3199 elinquished by ossible Hazard Identification 211 W Florida Ave linquished by linquished by: npty Kit Relinquished by eliverable Requested I II III IV Other (specify) rofins Xenco lient Information (Sub Contract Lab) nipping/Receiving Yes Custody Seal No 1.10.2 Date/Time 89000048 Due Date Requested 9/15/2021 Phone Primary Deliverable Rank TAT Requested (days) Sample Date roject #: 9/8/21 9/8/21 9/8/21 9/8/21 9/8/21 9/8/21 Date Mountair 15 15 Mountain 15 40 Mountain 15 25 Mountain 15 45 Mountain 15 10 Mountair Sample 15 05 (C=comp, G=grab) Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Kramer Jessica E-Mail essica kramer@eurofinset com NELAP - Louisiana NELAP - Texas Ime Field Filtered Sample (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal Return To Client Disposal Return To Client Disposal Return To Client Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Return To Client 8015MOD_NM/8015NM_S_Prep Full TPH Cooler Temperature(s) "Cand Other Remarks Received by × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × 8021B/5035FP_Calc BTEX × × × × × × Analysis Requested Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Method of Shipmen Archive For أبكت Total Number of containers 4 400 68 Acres 6 COC No. 890-402 1 B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid 890-1240-1 Preservation (Page Page 1 of 1 TIMUC B A ice
DI Water
EDTA
EDA 된 Special Instructions/Note $\mathbb{Z} \subseteq \mathbb{Q} \subseteq \mathbb{Q} \subseteq \mathbb{Q} \subseteq \mathbb{Q} \subseteq \mathbb{Q}$ I Hexane
I None
AsNaO2
NaSNaO2
NaSO3
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NaSSO3
HSSO4
HS Ver 06/08/2021 other (specify) Months Ē

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1240-1

SDG Number: Lea County

List Source: Eurofins Xenco, Carlsbad

Login Number: 1240 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Job Number: 890-1240-1 SDG Number: Lea County

List Source: Eurofins Xenco, Midland

List Creation: 09/13/21 09:26 AM

Creator: Copeland, Tatiana

Client: WSP USA Inc.

Login Number: 1240

List Number: 2

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 / 2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1241-1

Laboratory Sample Delivery Group: Lea County

Client Project/Site: Battle Ax Water Well

For:

WSP USA Inc. 2777 N. Stemmons Freeway Suite 1600 Dallas, Texas 75207

Attn: Kalei Jennings

MAMER

Authorized for release by: 9/16/2021 9:04:58 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 11/17/2021 10:17:45 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: WSP USA Inc. Project/Site: Battle Ax Water Well

Laboratory Job ID: 890-1241-1 SDG: Lea County

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control

Eurofins Xenco, Carlsbad

RER

RPD

TEF

TEQ

TNTC

RL

Case Narrative

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Job ID: 890-1241-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1241-1

Receipt

The samples were received on 9/9/2021 4:39 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH01 (890-1241-5), BH01 (890-1241-6), BH02 (890-1241-8) and (890-1241-A-1-F MSD). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH02 (890-1241-7). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: BH05 (890-1241-24), BH05 (890-1241-26), (LCS 880-7797/2-A) and (890-1239-A-1-B). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-7767 and analytical batch 880-7831 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Matrix: Solid

Lab Sample ID: 890-1241-1

Job ID: 890-1241-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH01

Date Collected: 09/08/21 10:35 Date Received: 09/09/21 16:39

Sample Depth: 0 - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 17:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 17:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 17:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 17:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 17:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 17:07	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 17:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			09/13/21 10:16	09/13/21 17:07	1
1,4-Difluorobenzene (Surr)	79		70 - 130			09/13/21 10:16	09/13/21 17:07	1

Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 11:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 11:49	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 11:49	1
Total TPH	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 11:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			09/13/21 09:35	09/13/21 11:49	1
o-Terphenyl	123		70 - 130			09/13/21 09:35	09/13/21 11:49	1

 Method: 300.0 - Anions, Ion Chro	matography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4920	25.2	mg/Kg			09/15/21 04:27	5

Client Sample ID: BH01 Lab Sample ID: 890-1241-2 Date Collected: 09/08/21 10:37

Date Received: 09/09/21 16:39

Sample Depth: 2 - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 17:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 17:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 17:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/13/21 10:16	09/13/21 17:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 17:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/13/21 10:16	09/13/21 17:27	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/13/21 10:16	09/13/21 17:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			09/13/21 10:16	09/13/21 17:27	1
1,4-Difluorobenzene (Surr)	106		70 - 130			09/13/21 10:16	09/13/21 17:27	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Lab Sample ID: 890-1241-2

Job ID: 890-1241-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH01

Date Collected: 09/08/21 10:37 Date Received: 09/09/21 16:39

Sample Depth: 2 - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 12:52	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 12:52	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 12:52	1
Total TPH	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			09/13/21 09:35	09/13/21 12:52	1
o-Terphenyl	115		70 - 130			09/13/21 09:35	09/13/21 12:52	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			249	mg/Kg			09/15/21 04:33	50

Client Sample ID: BH01 Lab Sample ID: 890-1241-3 Matrix: Solid

Date Collected: 09/08/21 10:48 Date Received: 09/09/21 16:39

Sample Depth: 6 - 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 17:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 17:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 17:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 17:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 17:48	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 17:48	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 17:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130			09/13/21 10:16	09/13/21 17:48	1
1,4-Difluorobenzene (Surr)	93		70 - 130			09/13/21 10:16	09/13/21 17:48	1
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Mothod: 8015B NM - Diesel Pane	ne Organice (D	PO) (GC)						
Analyte Gasoline Range Organics		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 09/13/21 09:35	Analyzed 09/13/21 13:13	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier	49.9	mg/Kg	<u>D</u>	09/13/21 09:35	09/13/21 13:13	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u> </u>	09/13/21 09:35	09/13/21 13:13	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 72.5	Qualifier U	49.9	mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35	09/13/21 13:13 09/13/21 13:13	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 72.5 <49.9	Qualifier U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35 09/13/21 09:35	09/13/21 13:13 09/13/21 13:13 09/13/21 13:13	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 72.5 <49.9 72.5	Qualifier U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35	09/13/21 13:13 09/13/21 13:13 09/13/21 13:13 09/13/21 13:13	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate	Result	Qualifier U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 Prepared	09/13/21 13:13 09/13/21 13:13 09/13/21 13:13 09/13/21 13:13 Analyzed	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 Prepared 09/13/21 09:35	09/13/21 13:13 09/13/21 13:13 09/13/21 13:13 09/13/21 13:13 Analyzed 09/13/21 13:13	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 Prepared 09/13/21 09:35	09/13/21 13:13 09/13/21 13:13 09/13/21 13:13 09/13/21 13:13 Analyzed 09/13/21 13:13	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client: WSP USA Inc. Job ID: 890-1241-1

Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH01

Date Collected: 09/08/21 10:50 Date Received: 09/09/21 16:39

Sample Depth: 9 - 10

Lab Sample ID: 890-1241-4

Matrix: Solid

Method: 8021B - Volatile O	•	•			_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 18:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 18:09	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 18:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 18:09	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 18:09	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 18:09	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

4-Bromofluorobenzene (Surr) 09/13/21 10:16 09/13/21 18:09 127 70 - 130 1,4-Difluorobenzene (Surr) 94 70 - 130 09/13/21 10:16 09/13/21 18:09

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 13:34	
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 13:34	
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 13:34	
Total TPH	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 13:34	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	105		70 - 130			09/13/21 09:35	09/13/21 13:34	

o-Terphenyl	114		70 - 130			09/13/21 09:35	09/13/21 13:34	1
Method: 300.0 - Anions, Ion Chrom	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2010		25.3	mg/Kg			09/15/21 04:44	5

Client Sample ID: BH01 Lab Sample ID: 890-1241-5 **Matrix: Solid**

Date Collected: 09/08/21 10:52 Date Received: 09/09/21 16:39

Sample Depth: 14 - 15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 18:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 18:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 18:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 18:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 18:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 18:29	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 18:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			09/13/21 10:16	09/13/21 18:29	1
1,4-Difluorobenzene (Surr)	80		70 - 130			09/13/21 10:16	09/13/21 18:29	1

Lab Sample ID: 890-1241-5

Job ID: 890-1241-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH01

Date Collected: 09/08/21 10:52 Date Received: 09/09/21 16:39

Sample Depth: 14 - 15

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 13:56	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 13:56	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 13:56	1
Total TPH	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 13:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			09/13/21 09:35	09/13/21 13:56	1
o-Terphenyl	123		70 - 130			09/13/21 09:35	09/13/21 13:56	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		4.97	mg/Kg			09/15/21 04:50	1

Client Sample ID: BH01 Lab Sample ID: 890-1241-6 Matrix: Solid

Date Collected: 09/08/21 11:05 Date Received: 09/09/21 16:39

Sample Depth: 19 - 20

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 18:50	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 18:50	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 18:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/13/21 10:16	09/13/21 18:50	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 18:50	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/13/21 10:16	09/13/21 18:50	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		09/13/21 10:16	09/13/21 18:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			09/13/21 10:16	09/13/21 18:50	1
1,4-Difluorobenzene (Surr)	117		70 - 130			09/13/21 10:16	09/13/21 18:50	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 14:17	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 14:17	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 14:17	1
Total TPH	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			09/13/21 09:35	09/13/21 14:17	1
o-Terphenyl	113		70 - 130			09/13/21 09:35	09/13/21 14:17	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172	5.00	mg/Kg			09/15/21 04:55	1

Lab Sample ID: 890-1241-7

Job ID: 890-1241-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH02

Date Collected: 09/08/21 11:20 Date Received: 09/09/21 16:39

Sample Depth: 0 - 1

Method: 8021B - Volatile Orga	inic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 19:11	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 19:11	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 19:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 19:11	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 19:11	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 19:11	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/13/21 10:16	09/13/21 19:11	1
1,4-Difluorobenzene (Surr)	94		70 - 130			09/13/21 10:16	09/13/21 19:11	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		09/13/21 09:35	09/13/21 14:38	1

Surrogate	%Pacayany	Qualifier	Limite		Propared	Analyzed	Dil Ea
Total TPH	<49.9	U	49.9	mg/Kg	09/13/21 09:35	09/13/21 14:38	•
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	09/13/21 09:35	09/13/21 14:38	
C10-C28)							
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg	09/13/21 09:35	09/13/21 14:38	
(GRO)-C6-C10							
Oddomic Mange Organico	10.0	J	10.0	9/119	00/10/21 00:00	00/10/21 11:00	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	09/13/21 09:35	09/13/21 14:38	1
o-Terphenyl	61	S1-	70 - 130	09/13/21 09:35	09/13/21 14:38	1

	Method: 300.0 - Anions, Ion Chromat	tography - 🤄	Soluble						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	901	F1	4.95	mg/Kg			09/15/21 05:40	1

Client Sample ID: BH02 Lab Sample ID: 890-1241-8 Date Collected: 09/08/21 11:24

Date Received: 09/09/21 16:39

Released to Imaging: 11/17/2021 10:17:45 AM

Sample Depth: 4 - 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 19:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 19:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 19:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/13/21 10:16	09/13/21 19:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 19:31	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/13/21 10:16	09/13/21 19:31	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/13/21 10:16	09/13/21 19:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			09/13/21 10:16	09/13/21 19:31	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130			09/13/21 10:16	09/13/21 19:31	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Lab Sample ID: 890-1241-8

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH02

Date Collected: 09/08/21 11:24 Date Received: 09/09/21 16:39

Sample Depth: 4 - 5

Method: 8015B NM - Diesel Range	Organics (DI	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 15:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 15:00	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 15:00	1
Total TPH	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 15:00	1

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111	70 - 130	09/13/21 09:35	09/13/21 15:00	1
o-Terphenyl	120	70 - 130	09/13/21 09:35	09/13/21 15:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	_ D	Prepared	Analyzed	Dil Fac
	Chloride	748		5.04	mg/Kg			09/15/21 05:57	1

Lab Sample ID: 890-1241-9 **Client Sample ID: BH02** Matrix: Solid

Date Collected: 09/08/21 11:28 Date Received: 09/09/21 16:39

Sample Depth: 9 - 10

Method: 8021B - Volatile	Organic	: Compounds	(GC)
Analyte		Resul	t Qual

	, , , , , , , , , , , , , , , , , , ,							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 19:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 19:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 19:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/13/21 10:16	09/13/21 19:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 19:52	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/13/21 10:16	09/13/21 19:52	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/13/21 10:16	09/13/21 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/13/21 10:16	09/13/21 19:52	1
1,4-Difluorobenzene (Surr)	78		70 - 130	09/13/21 10:16	09/13/21 19:52	1

ı	Method: 8015B	NM - Diesel	Range	Organics	(DRO)	(GC)
П				_		

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 15:22	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 15:22	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 15:22	1
Total TPH	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 15:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	09/13/21 09:35	09/13/21 15:22	1
o-Terphenyl	113		70 - 130	09/13/21 09:35	09/13/21 15:22	1

Mathadi 200 0 Aniana		Ohmannata muambus Calubla
Method: 300.0 - Anions,	ion	Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	645	4.97	mg/Kg			09/15/21 06:03	1

Lab Sample ID: 890-1241-10

Job ID: 890-1241-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Date Collected: 09/08/21 11:30 Date Received: 09/09/21 16:39

Client Sample ID: BH02

Sample Depth: 14 - 15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 20:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 20:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 20:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 20:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 20:13	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 20:13	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 20:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			09/13/21 10:16	09/13/21 20:13	1
1,4-Difluorobenzene (Surr)	114		70 - 130			09/13/21 10:16	09/13/21 20:13	1

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 15:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 15:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 15:43	1
Total TPH	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 15:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			09/13/21 09:35	09/13/21 15:43	1
o-Terphenyl	127		70 - 130			09/13/21 09:35	09/13/21 15:43	1

	Method: 300.0 - Anions, Ion Chron	natography - Soluble				Method: 300.0 - Anions, Ion Chromatography - Soluble							
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac					
Į	Chloride	20.7	4.99	mg/Kg			09/15/21 06:08	1					

Client Sample ID: BH02 Lab Sample ID: 890-1241-11 Date Collected: 09/08/21 13:02 **Matrix: Solid**

Date Received: 09/09/21 16:39 Sample Depth: 19 - 20

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:16	09/13/21 21:34	1
Toluene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:16	09/13/21 21:34	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:16	09/13/21 21:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		09/13/21 10:16	09/13/21 21:34	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:16	09/13/21 21:34	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		09/13/21 10:16	09/13/21 21:34	1
Total BTEX	<0.00396	U	0.00396	mg/Kg		09/13/21 10:16	09/13/21 21:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			09/13/21 10:16	09/13/21 21:34	1
1,4-Difluorobenzene (Surr)	86		70 - 130			09/13/21 10:16	09/13/21 21:34	1

Client: WSP USA Inc. Job ID: 890-1241-1

Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH02 Lab Sample ID: 890-1241-11 Date Collected: 09/08/21 13:02

Matrix: Solid Date Received: 09/09/21 16:39

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/13/21 09:35	09/13/21 16:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/13/21 09:35	09/13/21 16:26	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/13/21 09:35	09/13/21 16:26	1
Total TPH	<49.9	U	49.9	mg/Kg		09/13/21 09:35	09/13/21 16:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			09/13/21 09:35	09/13/21 16:26	1
o-Terphenyl	114		70 - 130			09/13/21 09:35	09/13/21 16:26	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH03 Lab Sample ID: 890-1241-12

5.00

mg/Kg

18.4

Date Collected: 09/08/21 12:42 **Matrix: Solid**

Date Received: 09/09/21 16:39

Sample Depth: 0 - 1

Chloride

Sample Depth: 19 - 20

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 21:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 21:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 21:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 21:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 21:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 21:55	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 21:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			09/13/21 10:16	09/13/21 21:55	
1,4-Difluorobenzene (Surr)	97		70 - 130			09/13/21 10:16	09/13/21 21:55	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	-
Analyte Gasoline Range Organics		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 09/13/21 09:35	Analyzed 09/13/21 16:47	-
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	09/13/21 09:35	09/13/21 16:47	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	mg/Kg	<u> </u>	09/13/21 09:35	09/13/21 16:47	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U U	49.9	mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35	09/13/21 16:47 09/13/21 16:47	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9	Qualifier U U U U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35 09/13/21 09:35	09/13/21 16:47 09/13/21 16:47 09/13/21 16:47	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U U U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35	09/13/21 16:47 09/13/21 16:47 09/13/21 16:47 09/13/21 16:47	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 Prepared	09/13/21 16:47 09/13/21 16:47 09/13/21 16:47 09/13/21 16:47 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier Soluble	49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 Prepared 09/13/21 09:35	09/13/21 16:47 09/13/21 16:47 09/13/21 16:47 09/13/21 16:47 Analyzed 09/13/21 16:47	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result	Qualifier U U U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 Prepared 09/13/21 09:35	09/13/21 16:47 09/13/21 16:47 09/13/21 16:47 09/13/21 16:47 Analyzed 09/13/21 16:47	Dil Fac

Eurofins Xenco, Carlsbad

09/15/21 06:14

Lab Sample ID: 890-1241-13

Job ID: 890-1241-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH03

Date Collected: 09/08/21 12:46 Date Received: 09/09/21 16:39

Sample Depth: 4 - 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 22:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 22:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 22:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 22:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 22:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 22:16	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 22:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			09/13/21 10:16	09/13/21 22:16	1
1.4-Difluorobenzene (Surr)	102		70 - 130			09/13/21 10:16	09/13/21 22:16	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 17:08	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 17:08	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 17:08	1
Total TPH	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			09/13/21 09:35	09/13/21 17:08	1
o-Terphenyl	117		70 - 130			09/13/21 09:35	09/13/21 17:08	1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.2	4.98	mg/Kg			09/15/21 06:36	1

Client Sample ID: BH03 Lab Sample ID: 890-1241-14 Date Collected: 09/08/21 12:50 **Matrix: Solid**

Date Received: 09/09/21 16:39

Sample Depth: 9 - 10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 22:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 22:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 22:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 22:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 22:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 22:36	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/13/21 10:16	09/13/21 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/13/21 10:16	09/13/21 22:36	1
1,4-Difluorobenzene (Surr)	71		70 - 130			09/13/21 10:16	09/13/21 22:36	1

Lab Sample ID: 890-1241-14

Client: WSP USA Inc. Job ID: 890-1241-1

Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH03

Date Collected: 09/08/21 12:50 Date Received: 09/09/21 16:39

Sample Depth: 9 - 10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8		49.8	mg/Kg	— <u>-</u>	09/13/21 09:35	09/13/21 17:29	1
(GRO)-C6-C10				99		00/10/21 00:00	00/10/21 11.20	
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 17:29	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 17:29	1
Total TPH	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			09/13/21 09:35	09/13/21 17:29	1
o-Terphenyl	114		70 - 130			09/13/21 09:35	09/13/21 17:29	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH03 Lab Sample ID: 890-1241-15 Date Collected: 09/08/21 12:52 Matrix: Solid

Date Received: 09/09/21 16:39

Sample Depth: 14 - 15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:16	09/13/21 22:57	•
Toluene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:16	09/13/21 22:57	•
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:16	09/13/21 22:57	
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		09/13/21 10:16	09/13/21 22:57	
o-Xylene	<0.00198	U	0.00198	mg/Kg		09/13/21 10:16	09/13/21 22:57	•
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		09/13/21 10:16	09/13/21 22:57	
Total BTEX	<0.00397	U	0.00397	mg/Kg		09/13/21 10:16	09/13/21 22:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			09/13/21 10:16	09/13/21 22:57	1
1,4-Difluorobenzene (Surr)	90		70 - 130			09/13/21 10:16	09/13/21 22:57	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 17:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 17:50	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 17:50	1
Total TPH	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 17:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			09/13/21 09:35	09/13/21 17:50	1
o-Terphenyl	116		70 - 130			09/13/21 09:35	09/13/21 17:50	1

Method: 300.0 - Anions, ion Chron	natograpny - s	eidulos						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.4		5.01	mg/Kg			09/15/21 06:48	1

Lab Sample ID: 890-1241-16

Client: WSP USA Inc. Job ID: 890-1241-1

Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH03

Date Collected: 09/08/21 12:54 Date Received: 09/09/21 16:39

Sample Depth: 19 - 20

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 23:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 23:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 23:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 23:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/13/21 23:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 23:18	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/13/21 23:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			09/13/21 10:16	09/13/21 23:18	1
1,4-Difluorobenzene (Surr)	86		70 - 130			09/13/21 10:16	09/13/21 23:18	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 18:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 18:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 18:11	1
Total TPH	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			09/13/21 09:35	09/13/21 18:11	1
o-Terphenyl	116		70 - 130			09/13/21 09:35	09/13/21 18:11	1

_ Method: 300.0 - Anions, Ion Chrom	natography - 9	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.8		4.98	mg/Kg			09/15/21 06:53	1

Lab Sample ID: 890-1241-17 Client Sample ID: BH04 Date Collected: 09/08/21 13:12 Date Received: 09/09/21 16:39

Sample Depth: 0 - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 23:38	
Toluene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 23:38	•
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 23:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/13/21 10:16	09/13/21 23:38	
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:16	09/13/21 23:38	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		09/13/21 10:16	09/13/21 23:38	1
Total BTEX	<0.00404	U	0.00404	mg/Kg		09/13/21 10:16	09/13/21 23:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			09/13/21 10:16	09/13/21 23:38	
1,4-Difluorobenzene (Surr)	96		70 - 130			09/13/21 10:16	09/13/21 23:38	1

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Matrix: Solid

Lab Sample ID: 890-1241-17

Client: WSP USA Inc. Job ID: 890-1241-1

Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH04 Date Collected: 09/08/21 13:12

Date Received: 09/09/21 16:39

Sample Depth: 0 - 1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 18:31	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 18:31	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 18:31	1
Total TPH	<49.8	U	49.8	mg/Kg		09/13/21 09:35	09/13/21 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			09/13/21 09:35	09/13/21 18:31	1
o-Terphenyl	117		70 - 130			09/13/21 09:35	09/13/21 18:31	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.0		25.0	mg/Kg			09/15/21 06:59	5

Lab Sample ID: 890-1241-18 **Client Sample ID: BH04** Matrix: Solid

Date Collected: 09/08/21 13:16 Date Received: 09/09/21 16:39

Sample Depth: 4 - 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 23:59	
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 23:59	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 23:59	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/13/21 10:16	09/13/21 23:59	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 23:59	
Xylenes, Total	< 0.00401	U	0.00401	mg/Kg		09/13/21 10:16	09/13/21 23:59	
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/13/21 10:16	09/13/21 23:59	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	126		70 - 130			09/13/21 10:16	09/13/21 23:59	
1,4-Difluorobenzene (Surr)	95		70 - 130			09/13/21 10:16	09/13/21 23:59	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 18:51	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 18:51	
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 18:51	
Total TPH	<49.7	U	49.7	mg/Kg		09/13/21 09:35	09/13/21 18:51	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	104		70 - 130			09/13/21 09:35	09/13/21 18:51	
o-Terphenyl	115		70 - 130			09/13/21 09:35	09/13/21 18:51	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Job ID: 890-1241-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH04 Lab Sample ID: 890-1241-19 Date Collected: 09/08/21 13:20 Date Received: 09/09/21 16:39

Sample Depth: 9 - 10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/13/21 10:16	09/14/21 00:19	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/13/21 10:16	09/14/21 00:19	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/13/21 10:16	09/14/21 00:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/13/21 10:16	09/14/21 00:19	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/13/21 10:16	09/14/21 00:19	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/13/21 10:16	09/14/21 00:19	1
Total BTEX	<0.00402	U	0.00402	mg/Kg		09/13/21 10:16	09/14/21 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			09/13/21 10:16	09/14/21 00:19	1
1,4-Difluorobenzene (Surr)	79		70 - 130			09/13/21 10:16	09/14/21 00:19	1
Method: 8015B NM - Diesel Ran		RO) (GC)						
1,4 Billadiobelizerie (Gali)								
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier		Unit mg/Kg	<u>D</u>		Analyzed 09/13/21 19:12	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.8	Qualifier U	RL 49.8	mg/Kg	<u>D</u>	Prepared 09/13/21 09:35	09/13/21 19:12	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	Qualifier U	RL		<u>D</u>	Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.8	Qualifier U	RL 49.8	mg/Kg	<u>D</u>	Prepared 09/13/21 09:35	09/13/21 19:12	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.8	Qualifier U U U	RL 49.8	mg/Kg	<u>D</u>	Prepared 09/13/21 09:35 09/13/21 09:35	09/13/21 19:12 09/13/21 19:12	1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <49.8 <49.8 <49.8	Qualifier U U U U	RL 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35	09/13/21 19:12 09/13/21 19:12 09/13/21 19:12	1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH	ge Organics (D) Result <49.8 <49.8 <49.8 <49.8	Qualifier U U U U	RL 49.8 49.8 49.8 49.8	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35	09/13/21 19:12 09/13/21 19:12 09/13/21 19:12 09/13/21 19:12	1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	ge Organics (D) Result <49.8 <49.8 <49.8 <49.8 <89.8 <89.8 %Recovery	Qualifier U U U U	RL 49.8 49.8 49.8 49.8 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 Prepared	09/13/21 19:12 09/13/21 19:12 09/13/21 19:12 09/13/21 19:12 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	ge Organics (D) Result <49.8 <49.8 <49.8 <49.8 <49.8 **Recovery** 106 117	Qualifier U U U Qualifier	RL 49.8 49.8 49.8 49.8 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 09/13/21 09:35 Prepared 09/13/21 09:35	09/13/21 19:12 09/13/21 19:12 09/13/21 19:12 09/13/21 19:12 Analyzed 09/13/21 19:12	Dil Fac 1 1 1 1 Dil Fac

Client Sample ID: BH04 Lab Sample ID: 890-1241-20 Date Collected: 09/08/21 13:22 **Matrix: Solid**

4.95

mg/Kg

Date Received: 09/09/21 16:39

Sample Depth: 14 - 15

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/14/21 00:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/14/21 00:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/14/21 00:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/14/21 00:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:16	09/14/21 00:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/14/21 00:40	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/13/21 10:16	09/14/21 00:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			09/13/21 10:16	09/14/21 00:40	1
1,4-Difluorobenzene (Surr)	72		70 - 130			09/13/21 10:16	09/14/21 00:40	1

Eurofins Xenco, Carlsbad

09/15/21 07:21

11.1

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH04

Date Collected: 09/08/21 13:22 Date Received: 09/09/21 16:39

Sample Depth: 14 - 15

Lab Sample ID: 890-1241-20

Matrix: Solid

09/15/21 07:38

09/13/21 17:35

09/13/21 17:35

09/13/21 10:18

09/13/21 10:18

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 19:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 19:32	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 19:32	1
Total TPH	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 19:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			09/13/21 09:35	09/13/21 19:32	1
o-Terphenyl	115		70 - 130			09/13/21 09:35	09/13/21 19:32	1

5.00 Client Sample ID: BH04 Lab Sample ID: 890-1241-21

mg/Kg

15.4

102

108

Result Qualifier

51.6

Date Collected: 09/08/21 13:24 Date Received: 09/09/21 16:39

Sample Depth: 19 - 20

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analyte

Chloride

Chloride

Method: 8021B - Volatile Organ	ic Compounds ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/13/21 10:18	09/13/21 17:35	1
Toluene	< 0.00199	U	0.00199	mg/Kg		09/13/21 10:18	09/13/21 17:35	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		09/13/21 10:18	09/13/21 17:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/13/21 10:18	09/13/21 17:35	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		09/13/21 10:18	09/13/21 17:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/13/21 10:18	09/13/21 17:35	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		09/13/21 10:18	09/13/21 17:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/13/21 09:36	09/13/21 16:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/13/21 09:36	09/13/21 16:47	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/13/21 09:36	09/13/21 16:47	1
Total TPH	<49.9	U	49.9	mg/Kg		09/13/21 09:36	09/13/21 16:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			09/13/21 09:36	09/13/21 16:47	1
o-Terphenyl	127		70 - 130			09/13/21 09:36	09/13/21 16:47	1

Eurofins Xenco, Carlsbad

Analyzed

09/15/21 01:17

RL

4.99

Unit

mg/Kg

D

Prepared

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH05

Date Collected: 09/08/21 13:36 Date Received: 09/09/21 16:39

Sample Depth: 0 - 1

Lab Sample ID: 890-1241-22

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:18	09/13/21 17:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:18	09/13/21 17:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:18	09/13/21 17:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/13/21 10:18	09/13/21 17:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:18	09/13/21 17:56	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/13/21 10:18	09/13/21 17:56	1
Total BTEX	<0.00401	U	0.00401	mg/Kg		09/13/21 10:18	09/13/21 17:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/13/21 10:18	09/13/21 17:56	1
1,4-Difluorobenzene (Surr)	108		70 - 130			09/13/21 10:18	09/13/21 17:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier Unit Analyzed Dil Fac RLPrepared <49.9 U 09/13/21 09:36 09/13/21 17:08 Gasoline Range Organics 49.9 mg/Kg (GRO)-C6-C10 09/13/21 09:36 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 09/13/21 17:08 C10-C28) OII Range Organics (Over C28-C36) 49.9 09/13/21 09:36 09/13/21 17:08 <49.9 U mg/Kg Total TPH <49.9 U 49.9 mg/Kg 09/13/21 09:36 09/13/21 17:08 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 107 70 - 130 09/13/21 09:36 09/13/21 17:08 09/13/21 09:36 o-Terphenyl 113 70 - 130 09/13/21 17:08

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	16.7		4.97	mg/Kg			09/15/21 01:22	1

Client Sample ID: BH05 Lab Sample ID: 890-1241-23 Date Collected: 09/08/21 13:40 Matrix: Solid

Date Received: 09/09/21 16:39

Sample Depth: 4 - 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:18	09/13/21 18:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:18	09/13/21 18:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:18	09/13/21 18:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/13/21 10:18	09/13/21 18:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:18	09/13/21 18:16	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/13/21 10:18	09/13/21 18:16	1
Total BTEX	<0.00399	U	0.00399	mg/Kg		09/13/21 10:18	09/13/21 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			09/13/21 10:18	09/13/21 18:16	1
1,4-Difluorobenzene (Surr)	108		70 - 130			09/13/21 10:18	09/13/21 18:16	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH05

Date Collected: 09/08/21 13:40 Date Received: 09/09/21 16:39

Sample Depth: 4 - 5

ab	Sample	ID:	89	0)-1	12	41	-2	3	
			_	_			_			

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 17:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 17:29	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 17:29	1
Total TPH	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			09/13/21 09:36	09/13/21 17:29	1
o-Terphenyl	124		70 - 130			09/13/21 09:36	09/13/21 17:29	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1241-24 **Client Sample ID: BH05** Matrix: Solid

Date Collected: 09/08/21 13:44 Date Received: 09/09/21 16:39

Sample Depth: 9 - 10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:18	09/13/21 18:37	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:18	09/13/21 18:37	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:18	09/13/21 18:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/13/21 10:18	09/13/21 18:37	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/13/21 10:18	09/13/21 18:37	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/13/21 10:18	09/13/21 18:37	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/13/21 10:18	09/13/21 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	09/13/21 10:18	09/13/21 18:37	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/13/21 10:18	09/13/21 18:37	1

Unit

Prepared

Method. 60 136 NW - Dieser Kang	e Organics (Di	KO) (GC)		
Analyte	Result	Qualifier	RL	

Surrogato	%Pecovery	Qualifier	l imite		Propared	Analyzed	Dil Eac
Total TPH	<50.0	U	50.0	mg/Kg	09/13/21 09:36	09/13/21 17:50	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	09/13/21 09:36	09/13/21 17:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	09/13/21 09:36	09/13/21 17:50	1
(GRO)-C6-C10							
Gasoline Range Organics	<50.0	U	50.0	mg/Kg	09/13/21 09:36	09/13/21 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	09/13/21 09:36	09/13/21 17:50	1
o-Terphenyl	136	S1+	70 - 130	09/13/21 09:36	09/13/21 17:50	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.1		5.00	mg/Kg	3		09/15/21 01:34	1

Eurofins Xenco, Carlsbad

Analyzed

Dil Fac

Released to Imaging: 11/17/2021 10:17:45 AM

Lab Sample ID: 890-1241-25

Job ID: 890-1241-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH05

Date Collected: 09/08/21 13:46 Date Received: 09/09/21 16:39

Sample Depth: 14 - 15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/13/21 15:09	09/14/21 05:09	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/13/21 15:09	09/14/21 05:09	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/13/21 15:09	09/14/21 05:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/13/21 15:09	09/14/21 05:09	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/13/21 15:09	09/14/21 05:09	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/13/21 15:09	09/14/21 05:09	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/13/21 15:09	09/14/21 05:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/13/21 15:09	09/14/21 05:09	1
1,4-Difluorobenzene (Surr)	104		70 - 130			09/13/21 15:09	09/14/21 05:09	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 18:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 18:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 18:11	1
Total TPH	<50.0	U	50.0	mg/Kg		09/13/21 09:36	09/13/21 18:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			09/13/21 09:36	09/13/21 18:11	1
o-Terphenyl	124		70 - 130			09/13/21 09:36	09/13/21 18:11	1

Method: 300.0 - Anions, Ion Chro	Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac					
Chloride	29.7	4.95	mg/Kg			09/15/21 01:39	1					

Client Sample ID: BH05 Lab Sample ID: 890-1241-26 Date Collected: 09/08/21 13:48 **Matrix: Solid**

Date Received: 09/09/21 16:39 Sample Depth: 19 - 20

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		09/13/21 15:09	09/14/21 05:29	
Toluene	<0.00202	U	0.00202	mg/Kg		09/13/21 15:09	09/14/21 05:29	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		09/13/21 15:09	09/14/21 05:29	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		09/13/21 15:09	09/14/21 05:29	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		09/13/21 15:09	09/14/21 05:29	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		09/13/21 15:09	09/14/21 05:29	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		09/13/21 15:09	09/14/21 05:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			09/13/21 15:09	09/14/21 05:29	1
1,4-Difluorobenzene (Surr)	107		70 - 130			09/13/21 15:09	09/14/21 05:29	1

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-1241-1

Project/Site: Battle Ax Water Well

SDG: Lea County

Client Sample ID: BH05

Date Collected: 09/08/21 13:48 Date Received: 09/09/21 16:39

Sample Depth: 19 - 20

Analyte

Chloride

Lab Sample ID: 890-1241-26

Analyzed

09/15/21 18:52

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 18:31	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 18:31	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 18:31	1
Total TPH	<49.8	U	49.8	mg/Kg		09/13/21 09:36	09/13/21 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			09/13/21 09:36	09/13/21 18:31	1
o-Terphenyl	131	S1+	70 - 130			09/13/21 09:36	09/13/21 18:31	1

5.00

Unit

mg/Kg

Prepared

Result Qualifier

35.6

D

8

10

Dil Fac

13

Surrogate Summary

Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-1241-1	BH01	100	79	
390-1241-1 MS	BH01	115	112	
390-1241-1 MSD	BH01	106	69 S1-	
390-1241-2	BH01	108	106	
390-1241-3	BH01	85	93	
390-1241-4	BH01	127	94	
390-1241-5	BH01	131 S1+	80	
390-1241-6	BH01	138 S1+	117	
390-1241-7	BH02	111	94	
390-1241-8	BH02	96	69 S1-	
390-1241-9	BH02	104	78	
390-1241-10	BH02	114	114	
390-1241-11	BH02	104	86	
390-1241-12	BH03	100	97	
390-1241-13	BH03	107	102	
390-1241-14	BH03	112	71	
390-1241-15	BH03	96	90	
390-1241-16	BH03	102	86	
390-1241-17	BH04	101	96	
390-1241-18	BH04	126	95	
390-1241-19	BH04	122	79	
390-1241-20	BH04	91	72	
390-1241-21	BH04	102	108	
390-1241-21 MS	BH04	126	78	
390-1241-21 MSD	ВН04	101	101	
390-1241-21 M3D		112		
	BH05		108	
390-1241-23	BH05	107	108	
390-1241-24	BH05	130	95	
390-1241-25	BH05	111	104	
390-1241-25 MS	BH05	99	92	
890-1241-25 MSD	BH05	100	98	
390-1241-26	BH05	106	107	
LCS 880-7801/1-A	Lab Control Sample	109	88	
LCS 880-7802/1-A	Lab Control Sample	98	98	
_CS 880-7833/1-A	Lab Control Sample	100	87	
_CSD 880-7801/2-A	Lab Control Sample Dup	102	96	
_CSD 880-7802/2-A	Lab Control Sample Dup	98	99	
LCSD 880-7833/2-A	Lab Control Sample Dup	94	94	
MB 880-7801/5-A	Method Blank	126	98	
MB 880-7802/5-A	Method Blank	124	109	
MB 880-7833/5-A	Method Blank	128	97	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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6

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10

12

Surrogate Summary

Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1239-A-1-C MS	Matrix Spike	114	118	
890-1239-A-1-D MSD	Matrix Spike Duplicate	111	116	
390-1241-1	BH01	114	123	
390-1241-1 MS	BH01	114	112	
390-1241-1 MSD	BH01	113	112	
390-1241-2	BH01	105	115	
390-1241-3	BH01	113	123	
390-1241-4	BH01	105	114	
390-1241-5	BH01	112	123	
390-1241-6	BH01	104	113	
390-1241-7	BH02	103	61 S1-	
390-1241-8	BH02	111	120	
390-1241-9	BH02	104	113	
390-1241-10	BH02	117	127	
390-1241-11	BH02	105	114	
390-1241-12	BH03	104	114	
390-1241-13	BH03	105	117	
90-1241-14	BH03	104	114	
390-1241-15	BH03	106	116	
390-1241-16	BH03	105	116	
390-1241-17	BH04	106	117	
390-1241-18	BH04	104	115	
390-1241-19	BH04	106	117	
90-1241-20	BH04	104	115	
390-1241-21	BH04	119	127	
390-1241-22	BH05	107	113	
390-1241-23	BH05	113	124	
390-1241-24	BH05	122	136 S1+	
390-1241-25	BH05	113	124	
390-1241-26	BH05	116	131 S1+	
CS 880-7796/2-A	Lab Control Sample	123	123	
CS 880-7797/2-A	Lab Control Sample	127	131 S1+	
CSD 880-7796/3-A	Lab Control Sample Dup	122	122	
LCSD 880-7797/3-A	Lab Control Sample Dup	116	118	
MB 880-7796/1-A	Method Blank	98	110	
	Method Blank	102	111	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7801/5-A

Matrix: Solid

Analysis Batch: 7815

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7801

1

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 16:45	
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 16:45	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 16:45	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/13/21 10:16	09/13/21 16:45	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 10:16	09/13/21 16:45	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/13/21 10:16	09/13/21 16:45	
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/13/21 10:16	09/13/21 16:45	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	09/13/21 10:16	09/13/21 16:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/13/21 10:16	09/13/21 16:45	1

LCS LCS

0.08228

0.1067

0.1069

0.2016

0.09593

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.100

0.100

0.100

0.200

0.100

Client Sample ID: Lab Control Sample

%Rec

82

107

107

101

96

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 7815

Lab Sample ID: LCS 880-7801/1-A

Prep Type: Total/NA

70 - 130

70 - 130

Prep Batch: 7801

%Rec. Limits 70 - 130 70 - 130 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1.4-Difluorobenzene (Surr)	88	70 - 130

Lab Sample ID: LCSD 880-7801/2-A

Matrix: Solid

Analysis Batch: 7815

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7801

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08306		mg/Kg		83	70 - 130	1	35
Toluene	0.100	0.09539		mg/Kg		95	70 - 130	11	35
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1877		mg/Kg		94	70 - 130	7	35
o-Xylene	0.100	0.09108		mg/Kg		91	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1.4-Difluorobenzene (Surr)	96	70 ₋ 130

Lab Sample ID: 890-1241-1 MS

Matrix: Solid

Analysis Batch: 7815

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 7801

Analysis Baton, 1010										p Daton	
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00199	U	0.100	0.09321		mg/Kg		93	70 _ 130		

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1241-1 MS **Matrix: Solid**

Analysis Batch: 7815

Client Sample ID: BH01 Prep Type: Total/NA Prep Batch: 7801

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Toluene < 0.00199 U 0.100 0.09497 95 70 - 130 mg/Kg Ethylbenzene <0.00199 0.100 0.09106 mg/Kg 91 70 - 130 0.200 m-Xylene & p-Xylene <0.00398 U 0.1678 mg/Kg 84 70 - 130 o-Xylene <0.00199 U 0.100 0.07778 mg/Kg 78 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-1241-1 MSD

Matrix: Solid

Analysis Batch: 7815

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 7801 RPD

MSD MSD %Rec. Sample Sample Spike Result Qualifier Limit Analyte Added Result Qualifier Unit %Rec Limits **RPD** Benzene <0.00199 0.0998 0.07363 74 70 - 130 23 35 mg/Kg Toluene <0.00199 U 0.0998 0.09466 95 70 - 130 0 35 mg/Kg Ethylbenzene <0.00199 U 0.0998 0.07971 80 70 - 130 mg/Kg 13 35 0.200 75 m-Xylene & p-Xylene <0.00398 U 0.1490 70 - 130 35 mg/Kg 12 o-Xylene <0.00199 U 0.0998 0.07023 mg/Kg 70 70 - 130 10

MSD MSD

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	69 S1	1-	70 - 130

Lab Sample ID: MB 880-7802/5-A

Matrix: Solid

Analysis Batch: 7820

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7802

мв мв

Analyte	Result	Qualifier	RL	Unit [D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	0:	9/13/21 10:18	09/13/21 17:06	1
Toluene	<0.00200	U	0.00200	mg/Kg	0	9/13/21 10:18	09/13/21 17:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	0	9/13/21 10:18	09/13/21 17:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg	0	9/13/21 10:18	09/13/21 17:06	1
o-Xylene	<0.00200	U	0.00200	mg/Kg	0	9/13/21 10:18	09/13/21 17:06	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg	0	9/13/21 10:18	09/13/21 17:06	1
Total BTEX	<0.00400	U	0.00400	mg/Kg	0	9/13/21 10:18	09/13/21 17:06	1
Total BTEX	<0.00400	U	0.00400	mg/Kg	0	9/13/21 10:18	09/13/21 17:06	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	09/13/21 10:18	09/13/21 17:06	1
1,4-Difluorobenzene (Surr)	109		70 - 130	09/13/21 10:18	09/13/21 17:06	1

Lab Sample ID: LCS 880-7802/1-A

Matrix: Solid

Analysis Batch: 7820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 7802

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.09562		mg/Kg		96	70 - 130		
Toluene	0.100	0.09515		mg/Kg		95	70 - 130		

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-7802/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 7820** Prep Batch: 7802

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130	 -	-
m-Xylene & p-Xylene	0.200	0.1829		mg/Kg		91	70 - 130		
o-Xylene	0.100	0.09161		mg/Kg		92	70 - 130		

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 98 70 - 130 1,4-Difluorobenzene (Surr) 70 - 130 98

Lab Sample ID: LCSD 880-7802/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Prep Batch: 7802

Analysis Batch: 7820

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09300		mg/Kg		93	70 - 130	3	35
Toluene	0.100	0.1019		mg/Kg		102	70 - 130	7	35
Ethylbenzene	0.100	0.09909		mg/Kg		99	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1777		mg/Kg		89	70 - 130	3	35
o-Xylene	0.100	0.09112		mg/Kg		91	70 - 130	1	35

LCSD LCSD Surrogate %Recovery Qualifier Limits 98 70 - 130 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 99 70 - 130

Lab Sample ID: 890-1241-21 MS Client Sample ID: BH04 **Matrix: Solid**

Analysis Batch: 7820

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.08471		mg/Kg		84	70 - 130	
Toluene	<0.00199	U	0.100	0.07912		mg/Kg		79	70 - 130	
Ethylbenzene	<0.00199	U	0.100	0.09964		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1678		mg/Kg		83	70 - 130	
o-Xylene	<0.00199	U	0.100	0.08330		mg/Kg		82	70 - 130	

	MS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: 890-1241-21 MSD Client Sample ID: BH04 Matrix: Solid Prep Type: Total/NA

Analysis Batch: 7820								Pre	p Batch	7802	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.08388		mg/Kg		84	70 - 130	1	35
Toluene	< 0.00199	U	0.100	0.08548		mg/Kg		85	70 - 130	8	35
Ethylbenzene	<0.00199	U	0.100	0.08437		mg/Kg		82	70 - 130	17	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1558		mg/Kg		77	70 - 130	7	35
o-Xylene	< 0.00199	U	0.100	0.07695		mg/Kg		76	70 - 130	8	35

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Prep Type: Total/NA

Prep Batch: 7802

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Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-7833/5-A Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Total/NA

Analysis Batch: 7820 Prep Batch: 7833 мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/13/21 15:09	09/14/21 04:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/13/21 15:09	09/14/21 04:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/13/21 15:09	09/14/21 04:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/13/21 15:09	09/14/21 04:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/13/21 15:09	09/14/21 04:40	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/13/21 15:09	09/14/21 04:40	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/13/21 15:09	09/14/21 04:40	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 09/14/21 04:40 4-Bromofluorobenzene (Surr) 70 - 130 09/13/21 15:09 128 1,4-Difluorobenzene (Surr) 97 70 - 130 09/13/21 15:09 09/14/21 04:40

Lab Sample ID: LCS 880-7833/1-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 7820** Prep Batch: 7833

	LCS LCS	
Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1 4-Difluorobenzene (Surr)	87	70 130

Lab Sample ID: LCSD 880-7833/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 7820 Prep Batch: 7833

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07982		mg/Kg		80	70 - 130	1	35	
Toluene	0.100	0.09232		mg/Kg		92	70 - 130	4	35	
Ethylbenzene	0.100	0.09475		mg/Kg		95	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.1762		mg/Kg		88	70 - 130	3	35	
o-Xylene	0.100	0.08775		mg/Kg		88	70 - 130	4	35	

) I					3 3				
o-Xylene			0.100	0.08775	mg/Kg	88	70 - 130	4	35
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	94		70 - 130						

70 - 130

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1,4-Difluorobenzene (Surr)

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1241-25 MS

Matrix: Solid

Analysis Batch: 7820

Client Sample ID: BH05 Prep Type: Total/NA Prep Batch: 7833

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.101	0.07520		mg/Kg		74	70 - 130	
Toluene	<0.00202	U	0.101	0.08454		mg/Kg		84	70 - 130	
Ethylbenzene	<0.00202	U	0.101	0.08782		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.202	0.1594		mg/Kg		78	70 - 130	
o-Xylene	<0.00202	U	0.101	0.08199		mg/Kg		81	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-1241-25 MSD

Matrix: Solid

Analysis Batch: 7820

Client Sample ID: BH05 Prep Type: Total/NA

Prep Batch: 7833

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.08072		mg/Kg		80	70 - 130	7	35
Toluene	<0.00202	U	0.100	0.09004		mg/Kg		90	70 - 130	6	35
Ethylbenzene	<0.00202	U	0.100	0.09294		mg/Kg		93	70 - 130	6	35
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1736		mg/Kg		86	70 - 130	9	35
o-Xylene	<0.00202	U	0.100	0.08554		mg/Kg		85	70 - 130	4	35

MSD MSD

MD MD

MR MR

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-7796/1-A

Matrix: Solid

Analysis Batch: 7788

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 7796

	IND	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 10:45	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 10:45	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 10:45	1
Total TPH	<50.0	U	50.0	mg/Kg		09/13/21 09:35	09/13/21 10:45	1

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenvl	110		70 - 130

Dil Fac Prepared Analyzed 09/13/21 09:35 09/13/21 10:45 09/13/21 09:35 09/13/21 10:45

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Prep Type: Total/NA

Prep Batch: 7796

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-7796/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Prep Type: Total/NA **Analysis Batch: 7788** Prep Batch: 7796 Cnika 100 100

	Spike	LUS	LUG				MRC.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	939.5		mg/Kg		94	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	873.4		mg/Kg		87	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 123 o-Terphenyl 123 70 - 130

Lab Sample ID: LCSD 880-7796/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 7788

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	866.3		mg/Kg		87	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	917.6		mg/Kg		92	70 - 130	5	20

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 122 70 - 130 o-Terphenyl 122 70 - 130

Lab Sample ID: 890-1241-1 MS Client Sample ID: BH01 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 7788									Pre	ep Batch: 7796
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	950.3		mg/Kg		95	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	997	901.9		mg/Kg		88	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 114 70 - 130 o-Terphenyl 112 70 - 130

Lab Sample ID: 890-1241-1 MSD Client Sample ID: BH01 Matrix: Solid Prep Type: Total/NA

Analysis Batch: 7788									Pre	p Batch:	: 7796
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	953.4		mg/Kg		95	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	905.6		mg/Kg		88	70 - 130	0	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	113		70 - 130								

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Released to Imaging: 11/17/2021 10:17:45 AM

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well SDG: Lea County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1241-1 MSD

Matrix: Solid

Analysis Batch: 7788

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 7796

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 112 70 - 130

Lab Sample ID: MB 880-7797/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 7790

Prep Batch: 7797

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 09/13/21 09:36 09/13/21 10:45 (GRO)-C6-C10 50.0 09/13/21 10:45 Diesel Range Organics (Over <50.0 U mg/Kg 09/13/21 09:36 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 09/13/21 09:36 09/13/21 10:45 Total TPH <50.0 U 50.0 09/13/21 09:36 09/13/21 10:45

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	09/13/21 09:36	09/13/21 10:45	1
o-Terphenyl	111		70 - 130	09/13/21 09:36	09/13/21 10:45	1

mg/Kg

Lab Sample ID: LCS 880-7797/2-A

Matrix: Solid

Analysis Batch: 7790

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 7797

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	985.0		mg/Kg		99	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1022		mg/Kg		102	70 - 130
C10-C28)							

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	127	70 _ 130
o-Terphenvl	131 S1+	70 - 130

Lab Sample ID: LCSD 880-7797/3-A

Matrix: Solid Analysis Batch: 7790 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7797

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1017		mg/Kg		102	70 - 130	3	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	916.9		mg/Kg		92	70 - 130	11	20	

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	116	70 - 130
o-Terphenyl	118	70 - 130

Client: WSP USA Inc. Job ID: 890-1241-1

mg/Kg

Project/Site: Battle Ax Water Well SDG: Lea County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

<49.8 U

Lab Sample ID: 890-1239-A-1-C MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 7790** Prep Batch: 7797

Sample Sample Spike MS MS Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.8 U 997 1009 mg/Kg 101 70 - 130 (GRO)-C6-C10 997 1009 98 70 - 130

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 114 o-Terphenyl 118 70 - 130

Lab Sample ID: 890-1239-A-1-D MSD

Matrix: Solid

Analysis Batch: 7790

Diesel Range Organics (Over

Spike MSD MSD %Rec. RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit 999 Gasoline Range Organics <49.8 997.1 mg/Kg 100 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 999 998.3 mg/Kg 97 70 - 130 20 C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 111 70 - 130 116 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7739/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7830

MB MB

Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 09/14/21 22:51 mg/Kg

Lab Sample ID: LCS 880-7739/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7830

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 259.4 104 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-7739/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 7830

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Chloride 250 104 261.0 mg/Kg 90 _ 110 20

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Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7797

Job ID: 890-1241-1 Client: WSP USA Inc. Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-5939-A-5-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7830

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 29.7 249 286.4 mg/Kg 103 90 - 110

Lab Sample ID: 880-5939-A-5-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7830

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	29.7		249	287.0		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-7767/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7831

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 09/15/21 02:07 mg/Kg

Lab Sample ID: LCS 880-7767/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7831

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits 260.5 Chloride 250 104 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-7767/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 7831

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 261.1 mg/Kg 104 90 - 110

Lab Sample ID: 890-1236-A-1-D MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7831

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	9010	F1	2490	13260	F1	mg/Kg	_	171	90 - 110	

Lab Sample ID: 890-1236-A-1-E MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 7831

•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	9010	F1	2490	13280	F1	mg/Kg		172	90 - 110		20	

Lab Sample ID: 890-1240-A-3-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 7831

7 maryone Batom 1001										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	39.7		250	301.6		mg/Kg		105	90 - 110	

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1240-A-3-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble Matrix: Solid**

Analysis Batch: 7831

		Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
l	Chloride	39.7		250	302.1		mg/Kg		105	90 - 110	0	20	

Lab Sample ID: MB 880-7769/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7837

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			09/15/21 05:24	1

Lab Sample ID: LCS 880-7769/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7837

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	262.6		mg/Kg		105	90 - 110	

Lab Sample ID: LCSD 880-7769/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7837

	Spii	e LCSD	LCSD				%Rec.		KPD
Analyte	Adde	d Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	25	0 263.5		mg/Kg	_	105	90 - 110	0	20

Lab Sample ID: 890-1241-7 MS Client Sample ID: BH02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7837

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	901	F1	248	1329	F1	mg/Kg		173	90 - 110	

Lab Sample ID: 890-1241-7 MSD Client Sample ID: BH02 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7837

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	901	F1	248	1330	F1	mg/Kg		173	90 - 110	0	20	

Lab Sample ID: 890-1241-17 MS Client Sample ID: BH04 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7837

MS MS %Rec. Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Unit Limits %Rec 1250 Chloride 76.0 1348 mg/Kg 102 90 - 110

Lab Sample ID: 890-1241-17 MSD Client Sample ID: BH04 **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 7837

Spike MSD MSD %Rec. RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 1250 76.0 1347 mg/Kg 102 90 - 110

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%Pac

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1241-1 Project/Site: Battle Ax Water Well

SDG: Lea County

Analyzed

09/15/21 15:54

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7740/1-A

Matrix: Solid

Analysis Batch: 7838

Analyte

Chloride

Client Sample ID: Method Blank **Prep Type: Soluble**

MB MB Dil Fac Result Qualifier RL Unit

mg/Kg

D

Prepared

Lab Sample ID: LCS 880-7740/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

5.00

<5.00 U

Analysis Batch: 7838

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 250.4 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-7740/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 7838

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 250.8 mg/Kg 100 90 - 110

Lab Sample ID: 880-5950-A-8-B MS

Matrix: Solid

Analysis Batch: 7838

MS MS Sample Sample Spike %Rec. Analyte Qualifier Added %Rec Result Result Qualifier Unit Limits Chloride 1790 1240 3128 108 90 - 110 mg/Kg

Lab Sample ID: 880-5950-A-8-C MSD

Matrix: Solid

Analysis Batch: 7838

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1240 Chloride 1790 3129 mg/Kg 108 90 - 110 0 20

Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

SDG: Lea County

GC VOA

Prep Batch: 7801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1241-1	BH01	Total/NA	Solid	5035	
890-1241-2	BH01	Total/NA	Solid	5035	
890-1241-3	BH01	Total/NA	Solid	5035	
890-1241-4	BH01	Total/NA	Solid	5035	
890-1241-5	BH01	Total/NA	Solid	5035	
890-1241-6	BH01	Total/NA	Solid	5035	
890-1241-7	BH02	Total/NA	Solid	5035	
890-1241-8	BH02	Total/NA	Solid	5035	
890-1241-9	BH02	Total/NA	Solid	5035	
890-1241-10	BH02	Total/NA	Solid	5035	
890-1241-11	BH02	Total/NA	Solid	5035	
890-1241-12	BH03	Total/NA	Solid	5035	
890-1241-13	BH03	Total/NA	Solid	5035	
890-1241-14	BH03	Total/NA	Solid	5035	
890-1241-15	BH03	Total/NA	Solid	5035	
890-1241-16	BH03	Total/NA	Solid	5035	
890-1241-17	BH04	Total/NA	Solid	5035	
890-1241-18	BH04	Total/NA	Solid	5035	
890-1241-19	BH04	Total/NA	Solid	5035	
890-1241-20	BH04	Total/NA	Solid	5035	
MB 880-7801/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7801/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7801/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1241-1 MS	BH01	Total/NA	Solid	5035	
890-1241-1 MSD	BH01	Total/NA	Solid	5035	

Prep Batch: 7802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-21	BH04	Total/NA	Solid	5035	
890-1241-22	BH05	Total/NA	Solid	5035	
890-1241-23	BH05	Total/NA	Solid	5035	
890-1241-24	BH05	Total/NA	Solid	5035	
MB 880-7802/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7802/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7802/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1241-21 MS	BH04	Total/NA	Solid	5035	
890-1241-21 MSD	BH04	Total/NA	Solid	5035	

Analysis Batch: 7815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-1	BH01	Total/NA	Solid	8021B	7801
890-1241-2	BH01	Total/NA	Solid	8021B	7801
890-1241-3	BH01	Total/NA	Solid	8021B	7801
890-1241-4	BH01	Total/NA	Solid	8021B	7801
890-1241-5	BH01	Total/NA	Solid	8021B	7801
890-1241-6	BH01	Total/NA	Solid	8021B	7801
890-1241-7	BH02	Total/NA	Solid	8021B	7801
890-1241-8	BH02	Total/NA	Solid	8021B	7801
890-1241-9	BH02	Total/NA	Solid	8021B	7801
890-1241-10	BH02	Total/NA	Solid	8021B	7801
890-1241-11	BH02	Total/NA	Solid	8021B	7801

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Client: WSP USA Inc.

Job ID: 890-1241-1

Project/Site: Battle Ax Water Well

SDG: Lea County

GC VOA (Continued)

Analysis Batch: 7815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-12	BH03	Total/NA	Solid	8021B	7801
890-1241-13	BH03	Total/NA	Solid	8021B	7801
890-1241-14	BH03	Total/NA	Solid	8021B	7801
890-1241-15	BH03	Total/NA	Solid	8021B	7801
890-1241-16	BH03	Total/NA	Solid	8021B	7801
890-1241-17	BH04	Total/NA	Solid	8021B	7801
890-1241-18	BH04	Total/NA	Solid	8021B	7801
890-1241-19	BH04	Total/NA	Solid	8021B	7801
890-1241-20	BH04	Total/NA	Solid	8021B	7801
MB 880-7801/5-A	Method Blank	Total/NA	Solid	8021B	7801
LCS 880-7801/1-A	Lab Control Sample	Total/NA	Solid	8021B	7801
LCSD 880-7801/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7801
890-1241-1 MS	BH01	Total/NA	Solid	8021B	7801
890-1241-1 MSD	BH01	Total/NA	Solid	8021B	7801

Analysis Batch: 7820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-21	BH04	Total/NA	Solid	8021B	7802
890-1241-22	BH05	Total/NA	Solid	8021B	7802
890-1241-23	BH05	Total/NA	Solid	8021B	7802
890-1241-24	BH05	Total/NA	Solid	8021B	7802
890-1241-25	BH05	Total/NA	Solid	8021B	7833
890-1241-26	BH05	Total/NA	Solid	8021B	7833
MB 880-7802/5-A	Method Blank	Total/NA	Solid	8021B	7802
MB 880-7833/5-A	Method Blank	Total/NA	Solid	8021B	7833
LCS 880-7802/1-A	Lab Control Sample	Total/NA	Solid	8021B	7802
LCS 880-7833/1-A	Lab Control Sample	Total/NA	Solid	8021B	7833
LCSD 880-7802/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7802
LCSD 880-7833/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7833
890-1241-21 MS	BH04	Total/NA	Solid	8021B	7802
890-1241-21 MSD	BH04	Total/NA	Solid	8021B	7802
890-1241-25 MS	BH05	Total/NA	Solid	8021B	7833
890-1241-25 MSD	BH05	Total/NA	Solid	8021B	7833

Prep Batch: 7833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-25	BH05	Total/NA	Solid	5035	
890-1241-26	BH05	Total/NA	Solid	5035	
MB 880-7833/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7833/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7833/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1241-25 MS	BH05	Total/NA	Solid	5035	
890-1241-25 MSD	BH05	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 7788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-1	BH01	Total/NA	Solid	8015B NM	7796
890-1241-2	BH01	Total/NA	Solid	8015B NM	7796
890-1241-3	BH01	Total/NA	Solid	8015B NM	7796

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Client: WSP USA Inc.

Job ID: 890-1241-1

Project/Site: Battle Ax Water Well

SDG: Lea County

GC Semi VOA (Continued)

Analysis Batch: 7788 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-4	BH01	Total/NA	Solid	8015B NM	7796
890-1241-5	BH01	Total/NA	Solid	8015B NM	7796
890-1241-6	BH01	Total/NA	Solid	8015B NM	7796
890-1241-7	BH02	Total/NA	Solid	8015B NM	7796
890-1241-8	BH02	Total/NA	Solid	8015B NM	7796
890-1241-9	BH02	Total/NA	Solid	8015B NM	7796
890-1241-10	BH02	Total/NA	Solid	8015B NM	7796
890-1241-11	BH02	Total/NA	Solid	8015B NM	7796
890-1241-12	BH03	Total/NA	Solid	8015B NM	7796
890-1241-13	BH03	Total/NA	Solid	8015B NM	7796
890-1241-14	BH03	Total/NA	Solid	8015B NM	7796
890-1241-15	BH03	Total/NA	Solid	8015B NM	7796
890-1241-16	BH03	Total/NA	Solid	8015B NM	7796
890-1241-17	BH04	Total/NA	Solid	8015B NM	7796
890-1241-18	BH04	Total/NA	Solid	8015B NM	7796
890-1241-19	BH04	Total/NA	Solid	8015B NM	7796
890-1241-20	BH04	Total/NA	Solid	8015B NM	7796
MB 880-7796/1-A	Method Blank	Total/NA	Solid	8015B NM	7796
LCS 880-7796/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7796
LCSD 880-7796/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7796
890-1241-1 MS	BH01	Total/NA	Solid	8015B NM	7796
890-1241-1 MSD	BH01	Total/NA	Solid	8015B NM	7796

Analysis Batch: 7790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-21	BH04	Total/NA	Solid	8015B NM	7797
890-1241-22	BH05	Total/NA	Solid	8015B NM	7797
890-1241-23	BH05	Total/NA	Solid	8015B NM	7797
890-1241-24	BH05	Total/NA	Solid	8015B NM	7797
890-1241-25	BH05	Total/NA	Solid	8015B NM	7797
890-1241-26	BH05	Total/NA	Solid	8015B NM	7797
MB 880-7797/1-A	Method Blank	Total/NA	Solid	8015B NM	7797
LCS 880-7797/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7797
LCSD 880-7797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7797
890-1239-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	7797
890-1239-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7797

Prep Batch: 7796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1241-1	BH01	Total/NA	Solid	8015NM Prep	
890-1241-2	BH01	Total/NA	Solid	8015NM Prep	
890-1241-3	BH01	Total/NA	Solid	8015NM Prep	
890-1241-4	BH01	Total/NA	Solid	8015NM Prep	
890-1241-5	BH01	Total/NA	Solid	8015NM Prep	
390-1241-6	BH01	Total/NA	Solid	8015NM Prep	
890-1241-7	BH02	Total/NA	Solid	8015NM Prep	
890-1241-8	BH02	Total/NA	Solid	8015NM Prep	
890-1241-9	BH02	Total/NA	Solid	8015NM Prep	
890-1241-10	BH02	Total/NA	Solid	8015NM Prep	
890-1241-11	BH02	Total/NA	Solid	8015NM Prep	
890-1241-12	BH03	Total/NA	Solid	8015NM Prep	

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9/16/2021

Client: WSP USA Inc.

Job ID: 890-1241-1

Project/Site: Battle Ax Water Well

SDG: Lea County

GC Semi VOA (Continued)

Prep Batch: 7796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-13	BH03	Total/NA	Solid	8015NM Prep	
890-1241-14	BH03	Total/NA	Solid	8015NM Prep	
890-1241-15	BH03	Total/NA	Solid	8015NM Prep	
890-1241-16	BH03	Total/NA	Solid	8015NM Prep	
890-1241-17	BH04	Total/NA	Solid	8015NM Prep	
890-1241-18	BH04	Total/NA	Solid	8015NM Prep	
890-1241-19	BH04	Total/NA	Solid	8015NM Prep	
890-1241-20	BH04	Total/NA	Solid	8015NM Prep	
MB 880-7796/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7796/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7796/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1241-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-1241-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Prep Batch: 7797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-21	BH04	Total/NA	Solid	8015NM Prep	
890-1241-22	BH05	Total/NA	Solid	8015NM Prep	
890-1241-23	BH05	Total/NA	Solid	8015NM Prep	
890-1241-24	BH05	Total/NA	Solid	8015NM Prep	
890-1241-25	BH05	Total/NA	Solid	8015NM Prep	
890-1241-26	BH05	Total/NA	Solid	8015NM Prep	
MB 880-7797/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7797/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7797/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1239-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1239-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 7739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-21	BH04	Soluble	Solid	DI Leach	
890-1241-22	BH05	Soluble	Solid	DI Leach	
890-1241-23	BH05	Soluble	Solid	DI Leach	
890-1241-24	BH05	Soluble	Solid	DI Leach	
890-1241-25	BH05	Soluble	Solid	DI Leach	
MB 880-7739/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7739/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7739/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5939-A-5-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-5939-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 7740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-26	BH05	Soluble	Solid	DI Leach	
MB 880-7740/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7740/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7740/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5950-A-8-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-5950-A-8-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

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Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

SDG: Lea County

HPLC/IC

Leach Batch: 7767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-1	BH01	Soluble	Solid	DI Leach	
890-1241-2	BH01	Soluble	Solid	DI Leach	
890-1241-3	BH01	Soluble	Solid	DI Leach	
890-1241-4	BH01	Soluble	Solid	DI Leach	
890-1241-5	BH01	Soluble	Solid	DI Leach	
890-1241-6	BH01	Soluble	Solid	DI Leach	
MB 880-7767/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7767/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7767/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1236-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1236-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-1240-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1240-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 7769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-7	BH02	Soluble	Solid	DI Leach	
890-1241-8	BH02	Soluble	Solid	DI Leach	
890-1241-9	BH02	Soluble	Solid	DI Leach	
890-1241-10	BH02	Soluble	Solid	DI Leach	
890-1241-11	BH02	Soluble	Solid	DI Leach	
890-1241-12	BH03	Soluble	Solid	DI Leach	
890-1241-13	BH03	Soluble	Solid	DI Leach	
890-1241-14	BH03	Soluble	Solid	DI Leach	
890-1241-15	BH03	Soluble	Solid	DI Leach	
890-1241-16	BH03	Soluble	Solid	DI Leach	
890-1241-17	BH04	Soluble	Solid	DI Leach	
890-1241-18	BH04	Soluble	Solid	DI Leach	
890-1241-19	BH04	Soluble	Solid	DI Leach	
890-1241-20	BH04	Soluble	Solid	DI Leach	
MB 880-7769/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7769/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7769/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1241-7 MS	BH02	Soluble	Solid	DI Leach	
890-1241-7 MSD	BH02	Soluble	Solid	DI Leach	
890-1241-17 MS	BH04	Soluble	Solid	DI Leach	
890-1241-17 MSD	BH04	Soluble	Solid	DI Leach	

Analysis Batch: 7830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-21	BH04	Soluble	Solid	300.0	7739
890-1241-22	BH05	Soluble	Solid	300.0	7739
890-1241-23	BH05	Soluble	Solid	300.0	7739
890-1241-24	BH05	Soluble	Solid	300.0	7739
890-1241-25	BH05	Soluble	Solid	300.0	7739
MB 880-7739/1-A	Method Blank	Soluble	Solid	300.0	7739
LCS 880-7739/2-A	Lab Control Sample	Soluble	Solid	300.0	7739
LCSD 880-7739/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7739
880-5939-A-5-B MS	Matrix Spike	Soluble	Solid	300.0	7739
880-5939-A-5-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7739

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Client: WSP USA Inc.

Project/Site: Battle Ax Water Well

SDG: Lea County

HPLC/IC

Analysis Batch: 7831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-1	BH01	Soluble	Solid	300.0	7767
890-1241-2	BH01	Soluble	Solid	300.0	7767
890-1241-3	BH01	Soluble	Solid	300.0	7767
890-1241-4	BH01	Soluble	Solid	300.0	7767
890-1241-5	BH01	Soluble	Solid	300.0	7767
890-1241-6	BH01	Soluble	Solid	300.0	7767
MB 880-7767/1-A	Method Blank	Soluble	Solid	300.0	7767
LCS 880-7767/2-A	Lab Control Sample	Soluble	Solid	300.0	7767
LCSD 880-7767/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7767
890-1236-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	7767
890-1236-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7767
890-1240-A-3-B MS	Matrix Spike	Soluble	Solid	300.0	7767
890-1240-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7767

Analysis Batch: 7837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-7	BH02	Soluble	Solid	300.0	7769
890-1241-8	BH02	Soluble	Solid	300.0	7769
890-1241-9	BH02	Soluble	Solid	300.0	7769
890-1241-10	BH02	Soluble	Solid	300.0	7769
890-1241-11	BH02	Soluble	Solid	300.0	7769
890-1241-12	BH03	Soluble	Solid	300.0	7769
890-1241-13	BH03	Soluble	Solid	300.0	7769
890-1241-14	BH03	Soluble	Solid	300.0	7769
890-1241-15	BH03	Soluble	Solid	300.0	7769
890-1241-16	BH03	Soluble	Solid	300.0	7769
890-1241-17	BH04	Soluble	Solid	300.0	7769
890-1241-18	BH04	Soluble	Solid	300.0	7769
890-1241-19	BH04	Soluble	Solid	300.0	7769
890-1241-20	BH04	Soluble	Solid	300.0	7769
MB 880-7769/1-A	Method Blank	Soluble	Solid	300.0	7769
LCS 880-7769/2-A	Lab Control Sample	Soluble	Solid	300.0	7769
LCSD 880-7769/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7769
890-1241-7 MS	BH02	Soluble	Solid	300.0	7769
890-1241-7 MSD	BH02	Soluble	Solid	300.0	7769
890-1241-17 MS	BH04	Soluble	Solid	300.0	7769
890-1241-17 MSD	BH04	Soluble	Solid	300.0	7769

Analysis Batch: 7838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1241-26	BH05	Soluble	Solid	300.0	7740
MB 880-7740/1-A	Method Blank	Soluble	Solid	300.0	7740
LCS 880-7740/2-A	Lab Control Sample	Soluble	Solid	300.0	7740
LCSD 880-7740/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7740
880-5950-A-8-B MS	Matrix Spike	Soluble	Solid	300.0	7740
880-5950-A-8-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7740

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Client: WSP USA Inc. Job ID: 890-1241-1

Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH01 Date Collected: 09/08/21 10:35 Date Received: 09/09/21 16:39

Lab Sample ID: 890-1241-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 17:07	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 11:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	7767	09/10/21 14:24	CH	XEN MID
Soluble	Analysis	300.0		5			7831	09/15/21 04:27	CH	XEN MID

Client Sample ID: BH01 Lab Sample ID: 890-1241-2 Matrix: Solid

Date Collected: 09/08/21 10:37 Date Received: 09/09/21 16:39

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.00 g 5 mL 7801 09/13/21 10:16 KL XEN MID Total/NA 8021B XEN MID Analysis 5 mL 5 mL 7815 09/13/21 17:27 KL 1 Total/NA Prep 8015NM Prep 10.06 g 10 mL 09/13/21 09:35 DM XEN MID 7796 Total/NA 8015B NM XEN MID Analysis 7788 09/13/21 12:52 AJ Soluble 7767 XEN MID Leach DI Leach 5.02 g 50 mL 09/10/21 14:24 СН 09/15/21 04:33 CH Soluble Analysis 300.0 50 7831 XEN MID

Client Sample ID: BH01 Lab Sample ID: 890-1241-3

Date Collected: 09/08/21 10:48 Matrix: Solid Date Received: 09/09/21 16:39

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 17:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 13:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7767	09/10/21 14:24	CH	XEN MID
Soluble	Analysis	300.0		10			7831	09/15/21 04:39	CH	XEN MID

Client Sample ID: BH01 Lab Sample ID: 890-1241-4

Date Collected: 09/08/21 10:50 Matrix: Solid Date Received: 09/09/21 16:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 18:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 13:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	7767	09/10/21 14:24	CH	XEN MID
Soluble	Analysis	300.0		5			7831	09/15/21 04:44	CH	XEN MID

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Released to Imaging: 11/17/2021 10:17:45 AM

Job ID: 890-1241-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH01

Date Collected: 09/08/21 10:52 Date Received: 09/09/21 16:39 Lab Sample ID: 890-1241-5

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 18:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 13:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7767	09/10/21 14:24	CH	XEN MID
Soluble	Analysis	300.0		1			7831	09/15/21 04:50	CH	XEN MID

Client Sample ID: BH01 Date Collected: 09/08/21 11:05

Date Received: 09/09/21 16:39

Lab Sample ID: 890-1241-6 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 18:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 14:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7767	09/10/21 14:24	СН	XEN MID
Soluble	Analysis	300.0		1			7831	09/15/21 04:55	CH	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-1241-7 **Matrix: Solid**

Date Collected: 09/08/21 11:20 Date Received: 09/09/21 16:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 19:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 14:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7769	09/10/21 14:27	СН	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 05:40	CH	XEN MID

Lab Sample ID: 890-1241-8 Client Sample ID: BH02

Date Collected: 09/08/21 11:24 **Matrix: Solid** Date Received: 09/09/21 16:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 19:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 05:57	CH	XEN MID

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Client: WSP USA Inc. Job ID: 890-1241-1

Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH02

Date Collected: 09/08/21 11:28 Date Received: 09/09/21 16:39 Lab Sample ID: 890-1241-9

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 19:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 15:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 06:03	CH	XEN MID

Client Sample ID: BH02

Date Collected: 09/08/21 11:30

Date Received: 09/09/21 16:39

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				Mot	wise. 6	Salid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 20:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 15:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 06:08	CH	XEN MID

Client Sample ID: BH02 Date Collected: 09/08/21 13:02

Date Received: 09/09/21 16:39

Lab Sample ID: 890-1241-11

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 21:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 16:26	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 06:14	CH	XEN MID

Client Sample ID: BH03

Date Collected: 09/08/21 12:42

Matrix: Solid Date Received: 09/09/21 16:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 21:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 16:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 06:31	CH	XEN MID

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Lab Sample ID: 890-1241-12

Job ID: 890-1241-1

Client: WSP USA Inc. Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH03

Date Collected: 09/08/21 12:46 Date Received: 09/09/21 16:39 Lab Sample ID: 890-1241-13

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 22:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 17:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 06:36	CH	XEN MID

Client Sample ID: BH03

Date Collected: 09/08/21 12:50 Date Received: 09/09/21 16:39 Lab Sample ID: 890-1241-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 22:36	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 17:29	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 06:42	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-1241-15

Matrix: Solid

Date Collected: 09/08/21 12:52 Date Received: 09/09/21 16:39

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 22:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 17:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 06:48	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-1241-16 Date Collected: 09/08/21 12:54 **Matrix: Solid**

Date Received: 09/09/21 16:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 23:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 18:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 06:53	CH	XEN MID

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Client: WSP USA Inc. Project/Site: Battle Ax Water Well

Job ID: 890-1241-1

SDG: Lea County

Client Sample ID: BH04

Date Collected: 09/08/21 13:12 Date Received: 09/09/21 16:39 Lab Sample ID: 890-1241-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 23:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 18:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		5			7837	09/15/21 06:59	CH	XEN MID

Client Sample ID: BH04

Date Collected: 09/08/21 13:16 Date Received: 09/09/21 16:39 Lab Sample ID: 890-1241-18

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/13/21 23:59	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 18:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 07:16	CH	XEN MID

Client Sample ID: BH04

Date Collected: 09/08/21 13:20 Date Received: 09/09/21 16:39

Lab Sample ID: 890-1241-19

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/14/21 00:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 19:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7769	09/10/21 14:27	СН	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 07:21	CH	XEN MID

Client Sample ID: BH04

Date Collected: 09/08/21 13:22 Date Received: 09/09/21 16:39

Lab Sample ID: 890-1241-20 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7801	09/13/21 10:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/14/21 00:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7796	09/13/21 09:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7788	09/13/21 19:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7769	09/10/21 14:27	CH	XEN MID
Soluble	Analysis	300.0		1			7837	09/15/21 07:38	CH	XEN MID

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Client: WSP USA Inc.

Job ID: 890-1241-1 Project/Site: Battle Ax Water Well SDG: Lea County

Client Sample ID: BH04

Date Collected: 09/08/21 13:24 Date Received: 09/09/21 16:39

Lab Sample ID: 890-1241-21 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7802	09/13/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/13/21 17:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7790	09/13/21 16:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	7739	09/10/21 09:39	CH	XEN MID
Soluble	Analysis	300.0		1			7830	09/15/21 01:17	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-1241-22 Matrix: Solid Date Collected: 09/08/21 13:36

Date Received: 09/09/21 16:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7802	09/13/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/13/21 17:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7790	09/13/21 17:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7739	09/10/21 09:39	CH	XEN MID
Soluble	Analysis	300.0		1			7830	09/15/21 01:22	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-1241-23

Date Collected: 09/08/21 13:40 **Matrix: Solid** Date Received: 09/09/21 16:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7802	09/13/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/13/21 18:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7790	09/13/21 17:29	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7739	09/10/21 09:39	CH	XEN MID
Soluble	Analysis	300.0		1			7830	09/15/21 01:28	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-1241-24 Date Collected: 09/08/21 13:44 **Matrix: Solid**

Date Received: 09/09/21 16:39

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7802	09/13/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/13/21 18:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7790	09/13/21 17:50	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7739	09/10/21 09:39	СН	XEN MID
Soluble	Analysis	300.0		1			7830	09/15/21 01:34	CH	XEN MID

Eurofins Xenco, Carlsbad

Released to Imaging: 11/17/2021 10:17:45 AM

Lab Chronicle

Client: WSP USA Inc.

Job ID: 890-1241-1

Project/Site: Battle Ax Water Well

SDG: Lea County

Client Sample ID: BH05

Lab Sample ID: 890-1241-25

Matrix: Solid

Date Collected: 09/08/21 13:46 Date Received: 09/09/21 16:39

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7833	09/13/21 15:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7820	09/14/21 05:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7797	09/13/21 09:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7790	09/13/21 18:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7739	09/10/21 09:39	CH	XEN MID
Soluble	Analysis	300.0		1			7830	09/15/21 01:39	CH	XEN MID

Client Sample ID: BH05

Date Collected: 09/08/21 13:48

Lab Sample ID: 890-1241-26

Matrix: Solid

Date Received: 09/09/21 16:39

Dil Batch Batch Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.96 g 5 mL 7833 09/13/21 15:09 KL XEN MID Total/NA 8021B Analysis 5 mL 5 mL 7820 09/14/21 05:29 KL XEN MID 1 Total/NA Prep 8015NM Prep 10.05 g 10 mL 09/13/21 09:36 DM XEN MID 7797 Total/NA 8015B NM XEN MID Analysis 7790 09/13/21 18:31 AJ Soluble 09/13/21 09:42 XEN MID Leach DI Leach 5 g 50 mL 7740 СН Soluble Analysis 300.0 1 7838 09/15/21 18:52 CH XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-1241-1

Project/Site: Battle Ax Water Well

SDG: Lea County

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pi	ogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, by	ut the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for w
the agency does not of	• •	,	ou by the governing dutienty.	ly molade unalytee for v
the agency does not off Analysis Method	• •	Matrix	Analyte	y molado analytoo loi v
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Method Summary

Job ID: 890-1241-1 Client: WSP USA Inc. Project/Site: Battle Ax Water Well

SDG: Lea County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Sample Summary

Client: WSP USA Inc.

890-1241-26

BH05

Project/Site: Battle Ax Water Well

Job ID: 890-1241-1 SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1241-1	BH01	Solid	09/08/21 10:35	09/09/21 16:39	0 - 1
890-1241-2	BH01	Solid	09/08/21 10:37	09/09/21 16:39	2 - 3
890-1241-3	BH01	Solid	09/08/21 10:48	09/09/21 16:39	6 - 7
890-1241-4	BH01	Solid	09/08/21 10:50	09/09/21 16:39	9 - 10
890-1241-5	BH01	Solid	09/08/21 10:52	09/09/21 16:39	14 - 15
890-1241-6	BH01	Solid	09/08/21 11:05	09/09/21 16:39	19 - 20
890-1241-7	BH02	Solid	09/08/21 11:20	09/09/21 16:39	0 - 1
890-1241-8	BH02	Solid	09/08/21 11:24	09/09/21 16:39	4 - 5
890-1241-9	BH02	Solid	09/08/21 11:28	09/09/21 16:39	9 - 10
890-1241-10	BH02	Solid	09/08/21 11:30	09/09/21 16:39	14 - 15
890-1241-11	BH02	Solid	09/08/21 13:02	09/09/21 16:39	19 - 20
890-1241-12	BH03	Solid	09/08/21 12:42	09/09/21 16:39	0 - 1
890-1241-13	BH03	Solid	09/08/21 12:46	09/09/21 16:39	4 - 5
890-1241-14	BH03	Solid	09/08/21 12:50	09/09/21 16:39	9 - 10
890-1241-15	BH03	Solid	09/08/21 12:52	09/09/21 16:39	14 - 15
890-1241-16	BH03	Solid	09/08/21 12:54	09/09/21 16:39	19 - 20
890-1241-17	BH04	Solid	09/08/21 13:12	09/09/21 16:39	0 - 1
890-1241-18	BH04	Solid	09/08/21 13:16	09/09/21 16:39	4 - 5
890-1241-19	BH04	Solid	09/08/21 13:20	09/09/21 16:39	9 - 10
890-1241-20	BH04	Solid	09/08/21 13:22	09/09/21 16:39	14 - 15
890-1241-21	BH04	Solid	09/08/21 13:24	09/09/21 16:39	19 - 20
890-1241-22	BH05	Solid	09/08/21 13:36	09/09/21 16:39	0 - 1
890-1241-23	BH05	Solid	09/08/21 13:40	09/09/21 16:39	4 - 5
890-1241-24	BH05	Solid	09/08/21 13:44	09/09/21 16:39	9 - 10
890-1241-25	BH05	Solid	09/08/21 13:46	09/09/21 16:39	14 - 15

Solid

09/08/21 13:48

09/09/21 16:39 19 - 20

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing Xenco

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Work Order No:

		Hobs	, NM (575) 392	Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199	www xenco com	Page of S
	i,	Bill to: (if different		MISP Atto Kalei Tennings	Work Order Comments	Comments
Project Manager.		Commany Name.			Program: UST/PST PRP Brow	☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
y name: V27	- T-00-45	Address:			State of Project:	
AL TOPOS	197KG	City State 7IP			Reporting: Level III Level III PST/UST TRRP Level IV	ST/UST TRRP Level IV
* ^		Email: Qnna.	byers @	@ wsp.com	Deliverables: EDD	יד □ Other:
.omeN		- Turn Around		ANALYSIS REQUEST	REQUEST	Preservative Codes
	Ø	ne 🔲 Rush	Pres.			None: NO DI Water: H ₂ O
	Due Date:	ite:	((9	- -	Cool: Cool MeOH: Me
ler's Name:		TAT starts the day received by the lab, if received by 4:30pm	γοι	6. Ø		HCL: HC HNO ₃ : HN H ₂ SO ₄ : H, NaOH: Na
PO#:	No Wet Ice	NO NO		かって		0
Yes No	- <u>†</u>		de			NaHSO ₄ : NABIS
Yes No.	N/A Correction Factor:	20.5	3 6		IIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Na ₂ S ₂ O ₃ : NaSO ₃
Yes No	N/A Temperature Reading:					Zn Acetate+NaOH: Zn
	Corrected Temperature:	(X)		:(\ \		NaOH+Ascorbic Acid: SAPC
Sample Identification Matrix	Date Time Sampled	ed Depth Grab/	Hal to 00 # 00	CV10		Sample Comments
10 to 10	9/8/21 1035	5 (x-1' (hab	١ /			
D-tail	1637	1	-			
BHXI	1048	, t-9	-			
8481	100 pi		-			
BHBI	1955	-=				
Bital	1105	19-20				
BHB2	17.8	1-80				
BITAL	1124	4.5,	-			
BH32	1128	9-10	-			
BH\$2	1130	14-15/	/			
Total 200.7 / 6010 200.8 / 6020:	8RCRA	13PPM Texas 11	Al Sb As Ba Be B	Ba Be B Cd Ca Cr Co Cu Fe	K Se	Sr TI Sn L
Circle Method(s) and Metal(s) to be analyzed	yzed TCLP	TCLP / SPLP 6010: 8RCRA	CRA Sb As Ba	Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	Mo Ni Se Ag TI U Hg: 1631	Hg: 1631 / 245.1 / 7470 / 7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard ferms and conditions Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client fear the location of the control or samples constitutes and the control or samples constitutes and the control or samples control or samples constitutes and subcontractors.	of samples constitutes a	valid purchase order from	client company	to Eurofins Xenco, its affiliates and subcontr	octors. It assigns standard terms and conditions	
of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any rosses of expenses incurred by the clean in the cost of samples and shall be enforced unless previously negotiated. Of Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ost of samples and shall no applied to each project a	nt assume any responsion nd a charge of \$5 for eac	ity for any losses sample submitt	ed to Eurofins Xenco, but not analyzed. These	e terms will be enforced unless previously negotiat	ed.
Retinquished by: (Signature)	Received by: (Signature)	signature)	Date/Time	Time Relinquished by: (Signature)	gnature) Received by: (Signature)	ure) Date/Time
) la	NO ON	9	6.6.6	.9.21 1/29		

Project Variage: Kalle: Annie Results	Environment Testing Xenco	, TX (210) 509-3334		
Horbe, NM (579) 592-7550, Carloted NM (579) 592-7550, Carloted NM (779) 593-3199	Hobbs, NM (575) 392-7550, Carlsbad,	TX (806) 794-1296	Work Order No:	
Name 1976		NM (575) 988-3199	www.xenco.com Page	P. P.
197 197	Kale Jennings (Halliferent)	alei Jennings	Work Order Comments	
Saggle to A Street Address: City, State ZIP: City, City, State ZiP: City, State ZiP: City, State ZiP: City, City, State ZiP: City, State ZiP: City, State ZiP: City,	Company Name:		Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐	☐ Superfund ☐
Received Integrated	33016 L. A Street	State	State of Project:	
Project Name:	Midland, 1x 79785	Repo	Reporting: Level II 🔲 Level III 🔲 PST/UST 📋 TRRP 📋	Level IV
Project Name	817-683-2503 " Email: anna. byers @	١	Deliverables: EDD ☐ ADaPT ☐ Other:	
Project Number: 314(82987, 1888	Battle Av la tates Ward	ANALYSIS REQUEST		Preservative Codes
Sampler's Name: Project Location: Leg. Cerum-teg. Tark state the day received by 430pm Project Location: Leg. Cerum-teg. Tark state the day received by 430pm Project Location Sampler's Name: Project Location Sampler's Name: Project Location Sampler's Name: Project Location Sample Custody Seals: Yes No Updager Total Containers: Yes No Updager Total Containers Yes No Updager Yes No Updager Total Containers Yes No Updager Total Cont	3140829089, 0880 Deputine Orush		None: NO	DI Water: H ₂ O
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Sample Received Interact	Tommarant Ves No Westers	-	H ₃ PO ₄ : HP	
Cooler Custody Seals:	Yes No Themometer ID:		NaHSO4: NABIS	S
Sample Custody Seals: Yes No Warrix Pate Time Depth Grab # of E E E E E E E E E	Yes No N/A Correction Factor:		Na ₂ S ₂ O ₃ : NaSO ₃)3
Total Containers: Corrected Temperature: Sampled Sampled Sampled Depth Grabl # of ま	Yes No MA Temperature Reading:		Zn Acetate+NaOH: Zn	OH: Zn
Sample Identification Matrix Sampled Sampled Comp Cont Cont Cont Cont Cont Cont Cont Cont	Corrected Temperature:		NaOH+Ascorbic Acid: SAPC	c Acid: SAPC
BH 2	Matrix Sampled Sampled Depth Comp Cont		Sample	Sample Comments
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	or this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. of this document and relinquishment of samples and shall not assume any responsibility for any losses or expenses inco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeru	its affiliates and subcontractors. It assivered by the client if such losses are due too, but not analyzed. These terms will be	igns standard terms and conditions to circumstances beyond the control e enforced unless previously negotlated.	
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Revised Date 08/25/2020 Rev. 2020

Date/Time

Received by: (Signature)

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Received by: (Signature)

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Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Environment Testing

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Work Order No:

			HODE	S, ININ (S)	0) 385-10	HODDS, NIM (5/3) 382-7330, Calistati, NIM (5/3) 303-5/33	www.xenco.com	n Page 5 of 5
Project Manager: Ko	Kale: Tenning		Bill to: (if different)		WSP.	WSP Athr: Kalei Jennings	Work Order Comments	Comments
	50 05		Company Name:			ר	Program: UST/PST ☐ PRP ☐ Brov	☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
	3360 N A Street	さ	Address:				State of Project:	[
te ZIP:	3. TX	49705	City, State ZIP:				Reporting: Level II C Level III C PST/UST TRRP L Level IV	ST/UST TRRP L Level IV
	250	Email:	9	Jan.	1613	una byers @ usp. com	Deliverables: EDD	ADaPT Other:
Project Name	Bottle Ax Labter Well		Turn Around	_		ANALYSIS REQUEST	QUEST	Preservative Codes
	214 62969. BBD	Š	Rush	Pres.	_			None: NO DI Water: H ₂ O
	Les Courses	Due Date:			((ø		Cool: Cool MeOH: Me
	Anna Bres	TAT starts the day	ne day received by		P	. S.	_	
	O	the lab, if re	the lab, if received by 4:30pm	:rs	?	# To the state of		H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice:	Yee To	əşəu	151	¥:		Н₃РО₄: НР
Samples Received Intact:	Yes No (Dermometer ID.	eter ID:		ırsı	de	בני		NaHSO4: NABIS
Cooler Custody Seals:	Yes No N/A Correction Factor	r Factor:		;d	3 1) 6		Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes No N/A Temperate	Temperature Reading:			10.	q		Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature:			<i>3)</i>	1%		NaOH+Ascorbic Acid: SAPC
Sample Identification	tion Matrix Sampled	Time	Depth Grab/	# of Cont	4107	augi		Sample Comments
BHOGH	16/3/6 8	1324	19-20' Grab		×	×		
2480		1336	1,1-10	7	×	× ×		
ST\$5		37.0	4-5,	~	×	×		
Bitas		1344	9-10	-	^ ×	XX		
Stass		1346	14-15	-	^ ×	××		
BHBS	→ →	348	19-20' \$	-	×	××		
						0		
					1	7		
					7	2		
Total 200.7 / 6010	200.8 / 6020:	BRCRA 13F	13PPM Texas 11	₹	Sb As Ba	Be B Cd Ca Cr Co	Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2	Na Sr TI Sn
Circle Method(s) and Metal(s) to be analyzed	etal(s) to be analyzed	TCLP / SPLP	PLP 6010: 8RCRA	CRA	Sb As	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Ni Se Ag TI U Hg: 1631	1245.117470 /7471
Notice: Signature of this docume	ent and relinquishment of samples co	onstitutes a valid	purchase order fro	m client co	ompany to	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Euroffins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	s. It assigns standard terms and conditions	
of service. Eurofins Xenco will to Service. Aminimum c	be liable only for the cost of samples charge of \$85.00 will be applied to ea	and shall not as sch project and a	charge of \$5 for ea	ulity for an ch sample	y losses or submitted	of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses of expenses incurred by the client losses are use to chromosomer and shall not assume any responsibility for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ms will be enforced unless previously negotiate	led.

Eurofins Xenco, Carlsbad

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Chain of Custody Record

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🐝 eurofins

Environment Testing

BH01 (890-1241-3) ВН01 (890-1241-2) BH01 (890-1241-1) Midland State Zip TX, 79701 BH02 (890-1241-8) BH02 (890-1241-7) BH01 (890-1241-6) BH01 (890-1241-5) BH01 (890-1241-4) Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. BH02 (890-1241-9) Sample Identification - Client ID (Lab ID) Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199 Empty Kit Relinquished by ossible Hazard Identification 3attle Ax Water Well 132-704-5440(Tel) elinquished by elinquished by eliverable Requested 211 W Florida Ave oject Name: Custody Seals Intact rofins Xenco iipping/Receiving lient Information inquished by Yes No B (Sub Contract Lab) Custody Seal No = Other (specify) 2.0.2 Project #: 89000048 Phone Due Date Requested 9/15/2021 Date/Time Primary Deliverable Rank TAT Requested (days) 9/8/21 9/8/21 9/8/21 9/8/21 9/8/21 9/8/21 9/8/21 9/8/21 9/8/21 Mountain 11 28 Mountain 11 24 Mountain 11 20 Mountain 11 05 Mountain 10 52 Mountain 10 37 Mountair Mountain 10 50 Mountain 10 48 10 35 (C=Comp, G=grab Sample Preservation Code: Type Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Kramer Jessica E-Mail essica kramer@eurofinset com Field Filtered Sample (Yes or No) NELAP - Louisiana, NELAP - Texas ime Perform MS/MSD (Yes or No) Special Instructions/QC_Requirements Return To Client 8015MOD_NM/8015NM_S_Prep Full TPH × × Cooler Temperature(s) °C and Other Remarks Received by × × \times × × × × × × 800_ORGFM_28D/DI_LEACH Chloride × 8021B/6036FP_Calc BTEX × × × × × × × × × Analysis Requested Disposal By Lab State of Origin
New Mexico Carrier Tracking No(s) Method of Shipm Archive For Total Number of containers بغضر ** 4 * 4 æ COC No: 890-402 1 G Amchlor H Ascorbic Acid 890-1241-1 Preservation TIMO COD Page 1 of 3 NaOH

Zn Acetate

Nitric Acid

NaHSO4

MeOH ice
DI Water
EDTA
EDA Special Instructions/Note Ver: 06/08/202 TSP Dodecahydrate
Acetone
MCAA other (specify) Hexane None AsNaO2 Na2O4S Na2SO3 Na2S2O3 Months Ę

Eurofine Yanco Carlehad																									
1089 N Canal St Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199	ဂ	Chain of Custody Record	f Cust	ody R	есо	ă												و مراد و مراد	eur	🐝 eurofins		Environ America	nmen ca	Environment Testing America	3
	Sampler			Lab PM Kramer		Jessica						Can	Carrier Tracking No(s)	cking	vo(s)			® 0	COC No: 890-402 2	22					
Client Contact Shipping/Receiving	Phone			E-Mail Jessic	E-Mail Jessica.kramer@eurofinset.co	ner@	euro	ïnset.	com			Stat	State of Origin New Mexico	g g				70 20	Page: Page 2 of 3	of 3					
Company Eurofins Xenco					Accreditations Required (See note): NELAP - Louisiana NELAP	tations P - Lo	Requi Duisia	red (Se	e note	_{ote):} AP - Texas	xas							ه ۲	Job #: 890-1241-1	1-1					
Address. 1211 W Florida Ave, ,	Due Date Requested 9/15/2021	_							An:	lvs	å	nalvsis Requested	fed	- 1			- 1	╗	eserv	Preservation Codes	Code				\bot
	TAT Requested (days)	s)						_		_	-1	1) III >					Hexane None		
State Zip TX, 79701					Sandings	1001-1000-1000-1000-1000-1000-1000-100												пσα		Nitric Acid	0 = 1	P Na2 Q Na2	Na2O4S Na2SO3		
Phone: 432-704-5440(TeI)	PO#:				1	TPH	le					***********								or T			S203		
Email	WO#:				annormer v	p Full	Chloric										·	dollar suce		ce DI Water			tone 5	Acetone MCAA	ā
Project Name Battle Ax Water Well	Project #: 89000048				Syrichic room	S_Pre	EACH	EX									(2.16	ainer	EDA	ع	N	Z othe	pH 4-5 other (specify)	ડ ેં	
Site:	SSOW#:				100000000000000000000000000000000000000	015NM	D/DI_L	Calc B1										Description of	Other:						
			Sample Type	Matrix (w=water	Filtered rm MS/N	OD_NM/8	RGFM_28	/5035FP_					-				-0 % - 1	Number							
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) B	BT=Tissue, A=Air)	, Honoreson	8016	300_	8021										Tota	s.	Special Instructions/Note:	linst	ructi	N/snc	ote:	<u> </u>
		<u></u>	Preservation Code:	on Code:	X	26.00	F.	- Anna	<u> </u>	betrag	ļe.,	lens:	lane.		when the	Ĺ.,	L.	X		H	1	ı	M		
BH02 (890-1241-10)	9/8/21	Mountain		Solid		×	×	×									,	4							
BH02 (890-1241-11)	9/8/21	13 02 Mountain		Solid		×	×	×										Picks Construction							
ВН03 (890-1241-12)	9/8/21	12 42 Mountain		Solid		×	×	×										-4							
ВН03 (890-1241-13)	9/8/21	12 46 Mountain		Solid		×	×	×			\dashv	\dashv						42 A			į	İ		İ	
ВН03 (890-1241-14)	9/8/21	12 50 Mountain		Solid		×	×	×					\neg					-							
BH03 (890-1241-15)	9/8/21	12 52 Mountain		Solid		×	×	×										44 ,							
BH03 (890-1241-16)	9/8/21	12 54 Mountain		Solid		×	×	×										94 9 6							
BH04 (890-1241-17)	9/8/21	13 12 Mountain		Solid		×	×	×										(100) (100)							
BH04 (890-1241-18)	9/8/21	13 16 Mountain		Solid		×	×	×		-								44							
Note: Since laboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	laces the ownership o eing analyzed the san signed Chain of Cust	f method analy nples must be s lody attesting to	te & accredita shipped back to said complice	ation compliand to the Eurofins ance to Eurofir	e upon Xenco I s Xenco	out sul LC lat	ocontra	ect labo y or oth	oratorie ner ins	s. Thi truction	is sam ns will	ole shij be pro	oment /ided	s forw Any ch	arded	under to ac	chain- credita	of-cus	itody I latus sh	f the lai	borator e broug	y does ht to E	not cur urofins	rently Xenco	FLC
Possible Hazard Identification Unconfirmed						Sample Disposal (A	le Disposal (A f Return To Client	osal		e ma	□ay be	asse	fee may be assessed if samples	ifsa	, mple	_ s ar		ine	are retained longer	er tha	than 1 n	month)	nth)	l	
Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2			Sp	Special Instructions/QC Requirements	Instru	ction	s/QC	Reg	\u00e4irem	ents								ĺ					
Empty Kit Relinquished by		Date			Time.			N					1/2	Method of Shipment:	Shipm	ent									
Relinquished by CLO Casp 9.10.21	Date/Time Date/Time:			Company		Receive	Received by			All.	11/1			\	Date/	Date/Time.	2	-	2.k	90	MO	Company	iny		
Relinquished by	Date/Time.			Company		Rece	Received by	4							Date	Date/Time						Company	iny		
Custody Seals Intact: Custody Seal No						Cool	Cooler Temperature(s)	peratu	re(s) °	C and	Other	°C and Other Remarks.	(°)	2/10											

Ver: 06/08/2021

Eurofins Xenco, Carlsbad 1089 N Canal St.

13 14

Chain of Custody Record

	-
Caroni	e i Pofik

Environment Testing

State Zip TX, 79701 BH05 (890-1241-24) BH05 (890-1241-22) BH04 (890-1241-19) Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 BH05 (890-1241-26) BH05 (890-1241-25) BH05 (890-1241-23) BH04 (890-1241-21) BH04 (890-1241-20) Sample Identification - Client ID (Lab ID) 432-704-5440(Tel) Possible Hazard Identification Battle Ax Water Wel Midland Custody Seals I elinquished by Deliverable Requested 1 II ote Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently initiatin accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC. 211 W Florida Ave elinquished by mpty Kit Relinquished by linquished by oject Name nipping/Receiving lient Information rofins Xenco 8 Intact: 3 (Sub Contract Lab) Custody Seal No III IV Other (specify) 0 WO# Due Date Requested 9/15/2021 Date/Time Date/Time Primary Deliverable Rank 89000048 TAT Requested (days) roject # 9/8/21 9/8/21 9/8/21 9/8/21 9/8/21 9/8/21 9/8/21 9/8/21 Mountain 13 40 Date Mountain 13 48 Mountain 13 46 Mountain 13 44 Mountain 13 36 Mountain 13 24 Mountain 13 22 Sample 13 20 G=grab) (C=comp, Sample Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid E-Mail jessica kramer@eurofinset.com Kramer Jessica Field Filtered Sample (Yes or No) NELAP - Louisiana NELAP - Texas ime Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Special Instructions/QC Requirements Received by: 8015MOD_NM/8015NM_S_Prep Full TPH Cooler Temperature(s) °C and Other Remarks × × \times × × \times \times × × 00_ORGFM_28D/DI_LEACH Chloride × × × × 3021B/5035FP_Calc BTEX × × × × × × × × Analysis Requested State of Origin New Mexico Carrier Tracking No(s) Method of Shipmen Total Number of containers 1000 4 , ili (200 , **20** 945 reditor. A HCL
B NaOH
C - Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid COC No: 890-402 3 890-1241-1 Preservation (Page 3 of 3 lce
DI Water
EDTA
EDA Special Instructions/Note M Hexane
N None
O AsNaO2
P NaZO4S
Q NaZSO3
R NAZSO3
S HZSO4
T TSP Dodecahydrate
U - Acetone
V MCAA
W pH 4-5
Z ofher (specify) Ver 06/08/202 Company Months Ĕ

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1241-1

SDG Number: Lea County

List Source: Eurofins Xenco, Carlsbad

Login Number: 1241 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

4

2

3

4

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11

12

14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1241-1 SDG Number: Lea County

Login Number: 1241 List Source: Eurofins Xenco, Midland List Number: 2

List Creation: 09/13/21 09:27 AM

Creator: Copeland, Tatiana

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 / 2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

<6mm (1/4").

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	nAPP2120869635
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	217817
Contact Name	Kelsy Waggaman	Contact Telephone	505-677-9071
Contact email	Kelsy.Waggaman@conocophillips.com	Incident # (assigned by OCD)	nAPP2120869635
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude	32.178	3199°°°	1 Release 500	Longitude	-103.440470
			(NAD 83 in deci	mal degrees to 5 decir	
Site Name		Water Well	C-03942-PO	D1 Site Type	Water Well
Date Release	Discovered	7/26/21		API# (if app	pplicable) N/A
Unit Letter	Section	Township	Range	Cour	unty
В	35	24S	34E	Le	ea
Surface Owne	or: State	☐ Faderal ☐ Tr	ribal Private (No	Quail	Ranch, LLC
Surface Owne	a. State			ume	,
			Nature and	Volume of 1	Release
	Materia	l(s) Released (Select al	I that apply and attach c	alculations or specific	ic justification for the volumes provided below)
Crude Oi		Volume Release			Volume Recovered (bbls)
Produced	l Water	Volume Release	d (bbls)		Volume Recovered (bbls)
		Is the concentrate produced water	tion of dissolved ch >10,000 mg/l?	loride in the	☐ Yes ☐ No
Condensa	ate	Volume Release			Volume Recovered (bbls)
☐ Natural C	□ Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)			Volume/Weight Recovered (provide units)		
Brackish	า Water	150 bbl			150 bbl
Cause of Re	lease	I			1
On 7/26/21 a	an inactive w	ater well was four	nd to be releasing f	luid. ~130 bbls o	of fluid was recovered from a 40'x40' area west of the

well and a 240' x 3' area along the side of Battle Ax Road. In the past 24 hrs, an additional 200 bbls of fluid was recovered from the actively flowing well bore and transferred directly into a containment tank. The release is still active. NM Office of the State Engineer has directed ConocoPhillips to not take any action to cap or plug the well until OSE completes an evaluation. The release is likely brackish water. ConocoPhillips is working to identify the material released. Vegetation in the area appears to be impacted.

Received by OCD: 10/14/2021/11/:10:58AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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	age	100	100			"
	-0-	-	-			_

Incident ID	nAPP2120869635
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible par	ty consider this a major release?			
release as defined by	Volume released was >25 bbls	ty consider this a major release:			
19.15.29.7(A) NMAC?	Volume released was 725 bbis				
Yes No					
If YES, was immediate n	Inotice given to the OCD? By whom? To whom? Wh	nen and by what means (phone, email, etc)?			
	gaman. To the NMOCD emergency notil	-			
ocd.enviro@state.n	-	'			
	Initial Respons	e			
The responsible	party must undertake the following actions immediately unless the	y could create a safety hazard that would result in injury			
☐ The source of the rele	lease has been stopped.				
■ The impacted area ha	as been secured to protect human health and the envir	onment.			
Released materials ha	ave been contained via the use of berms or dikes, abso	orbent pads, or other containment devices.			
All free liquids and re	recoverable materials have been removed and manage	d appropriately.			
If all the actions describe	ed above have <u>not</u> been undertaken, explain why:				
NM Office of the Sta	ate Engineer has directed ConocoPhillip	s to not take any action to cap or plug the			
	pletes an evaluation.	, , , ,			
has begun, please attach		on immediately after discovery of a release. If remediation we been successfully completed or if the release occurred ach all information needed for closure evaluation.			
I hereby certify that the info	ormation given above is true and complete to the best of my	knowledge and understand that pursuant to OCD rules and			
regulations all operators are	e required to report and/or file certain release notifications a	nd perform corrective actions for releases which may endanger			
		not relieve the operator of liability should their operations have indwater, surface water, human health or the environment. In			
_	of a C-141 report does not relieve the operator of responsibility	lity for compliance with any other federal, state, or local laws			
and/or regulations. Printed Name: Kelsy	y Waggaman Title	Environmental Coordinator			
2. 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1					
Signature: August	Date:	7/27/21 one: (505)577-9071			
email: Kelsy.waggam	nan@conocophillips.com Teleph	one: (505)577-9071			
OCD Only					
Received by: Ramona	Marcus	7/30/2021			
received by.	Date.				

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

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 38467

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	38467
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	7/30/2021

te of New Mexico

Incident ID	NAPP2120869635
District RP	
Facility ID	
Application ID	

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?	<u>>100</u> (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?	X 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 X 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?	X 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 wel Field data 	ls.				
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.

Received by OCD: 10/14/2021 11:10:58 AM Form C-141 State of New Mexico Page 5 Oil Conservation Division

Page	168	of.	<i>170</i>
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Incident ID	NAPP2120869635
District RP	
Facility ID	
Application ID	

regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger to OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In r of responsibility for compliance with any other federal, state, or local laws
Printed Name: Ike Tavarez	Title:Environmental Coordinator
Signature: \(\lambda ke \tavarez \)	Date:10/12/2021
email:Ike.Tavarez@conocophillips.com	Telephone: 432-685-2573
OCD Only	
Received by:	Date:

State of New Mexico

Incident ID NAPP2120869635

District RP
Facility ID
Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation poin ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29. ☑ Proposed schedule for remediation (note if remediation plan tin 	12(C)(4) NMAC			
<u>Deferral Requests Only</u> : Each of the following items must be con	nfirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of			
Printed Name: Ike Tavarez	Title: Environmental Coordinator			
Signature: Ake Tavarez	Date:10/12/2021			
email: Ike.Tavarez@conocophillips.com	Telephone: 423-701-8630			
OCD Only				
Received by: Chad Hensley	Date:11/17/2021			
☐ Approved	Approval			
Signature:	Date: 11/17/2021			

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

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 56002

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave Midland, TX 79701	Action Number: 56002
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	A deferral can only be granted on an active well pad and not on a road, right-of-way, or in the pasture.	11/17/2021