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	
District RP	3RP-1024
Facility ID	
Application ID	

NMOCD
DEC 20 2018
DISTRICT III

Release Notification

Responsible Party

Responsible Party	DJR Operating, LLC	OGRID	371838
Contact Name	Amy Archuleta	Contact Telephone	505-632-3476
Contact email	aarchuleta@djrllc.com	Incident # *(assigned by OCD)*	NCS1901152000
Contact mailing address	1 Road 6263 Aztec, NM 87410		

Location of Release Source

pCS1507831688

Latitude 36.43660 Longitude -108.13783
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	CBU Tank Battery	Site Type	Tank Battery
Date Release Discovered	July 9, 2018	API# *(if applicable)*	NA

Unit Letter	Section	Township	Range	County
C	5	25N	12W	San Juan

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

Nature and Volume of Release

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

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

Cause of Release

The origin of the hydrocarbon release at the site is likely from the produced water and condensate tanks previously located at this site.

188

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Amy Archuleta Title: Regulatory Specialist

Signature: Date: 12-18-18

email: aarchuleta@djrllc.com Telephone: 505-632-3476

OCD Only

Received by: OCD Date: 12/20/18

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

Closure Approved by: Date: 1/11/19

Printed Name: Cory Title: Environmental Spec.

December 11, 2018

Amy Archuleta
Regulatory Supervisor
DJR Operating, LLC
1 Road 3263
Aztec, New Mexico 87410-9521

Sent via electronic mail to:
aarchuleta@djrllc.com

RE: Excavation Clearance Report
CBU Tank Battery
NE¼ NW¼, Section 5, T25N, R12W
San Juan County, New Mexico

Dear Ms. Archuleta:

On July 23, August 6, and October 11 and 23, 2018, Animas Environmental Services, LLC (AES) completed confirmation sampling of the excavated areas associated with petroleum-contaminated soils at the DJR Operating (DJR) Central Bisti Unit (CBU) Tank Battery release location. Additional contractors completed confirmation sampling on September 6 and November 26, 2018. Confirmation soil samples were collected to monitor the progress of the excavation and to document contaminant source removal where contaminant concentrations were below the applicable New Mexico Oil Conservation Division (NMOCD) action levels. The release consisted of historic contamination discovered during infrastructure removal activities at the location.

1.0 Site Information

1.1 Location

Site Name – Central Bisti Unit (CBU) Tank Battery
Legal Description – NE¼ NW¼, Section 5, T25N, R12W, San Juan County, New Mexico
Release Latitude/Longitude – N36.43660, W108.13783, respectively
Land Jurisdiction – Navajo Nation Allotment
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Location Map

604 W. Piñon St.
Farmington, NM 87401
505-564-2281

1911 Main, Ste 206
Durango, CO 81301
970-403-3084

animasenvironmental.com

1.2 NMOCD Ranking

The DJR CBU Tank Battery is located within Navajo Nation Allotment lands. Navajo Nation Environmental Protection Agency (NNEPA) adheres to action levels for releases and spills as established by the NMOCD.

In accordance with NNEPA release protocols, action levels for the July 2018 release were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of **20** based on the following factors:

- **Depth to Groundwater:** The location is approximately 70 feet higher than Gallegos Canyon wash. A water well (SJ 01716) in NE¼ SW¼, Section 1 and 84 feet higher detected water at 210 feet. Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be between 51 and 100 feet below ground surface. (10 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** An unnamed wash, which ultimately discharges to Gallegos Canyon Wash, is located approximately 230 feet southeast of the location. (10 points)

NMOCD Action levels are:

- 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene, and xylene (BTEX);
- 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO).

1.3 Assessment

Field sampling activities, over the course of different sampling events, included collection of 32 confirmation soil samples from the walls and bases of the North Excavation Area and South Excavation Area. The area of the final North Excavation Area measured approximately 191 feet by 95 feet by 6 to 25 feet in depth, and the area of the final South Excavation Area measured approximately 119 feet by 111 feet by 10 to 11 feet in depth. A total of 14,300 cubic yards of soil were excavated and transported to Envirotech Landfarm (NMOCD Permit #NM-01-0011) near Hilltop, New Mexico, and copies of waste disposal documents are attached. Sample locations and final excavation extents are presented on Figure 3, and excavation progress is documented in the attached Photograph Log.

2.0 Soil Sampling

2.1 Laboratory Analyses

The samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The samples were maintained on ice until delivery to the analytical laboratories, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico, or Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico. The samples were laboratory analyzed for:

- BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B (August 2018) / 8260B (September through November 2018); and
- TPH as GRO, DRO, MRO per USEPA Method 8015 M/D.

2.2 Laboratory Analytical Results

Laboratory analytical results are summarized on Figure 3, and laboratory analytical reports are attached.

3.0 Conclusions and Future Reclamation Activities

3.1 Conclusions

DJR completed excavation of historic contamination at the CBU Tank Battery in November 2018. Approximately 14,300 cubic yards of petroleum contaminated soil were excavated and transported for off-site disposal at an authorized facility.

Final clearance of the excavation areas was completed during multiple sampling events August through November 2018. Laboratory analytical results reported benzene, total BTEX, and TPH concentrations (as GRO/DRO/MRO) in all samples as below NMOCD action levels.

Based on the final laboratory analytical results of the excavation of petroleum contaminated soils at the CBU Tank Battery, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels. No further action, except for reclamation, is recommended.

3.2 Reclamation Activities

DJR backfilled the south excavation area on October 18, 2018, and completed the backfill of the north excavation area on December 10, 2018. The areas were contoured

to achieve erosion control and long-term stability per New Mexico Administrative Code (NMAC) 19.15.29.13.

DJR will reseed the disturbed areas no longer needed for production or drilling activities during the first favorable growing season (early Spring 2019). DJR will notify NMOCD upon completion of reseeding activities.

If you have any questions about this report or site conditions, please do not hesitate to contact Tami Knight, Project Lead, or Elizabeth McNally at (505) 564-2281.

Sincerely,

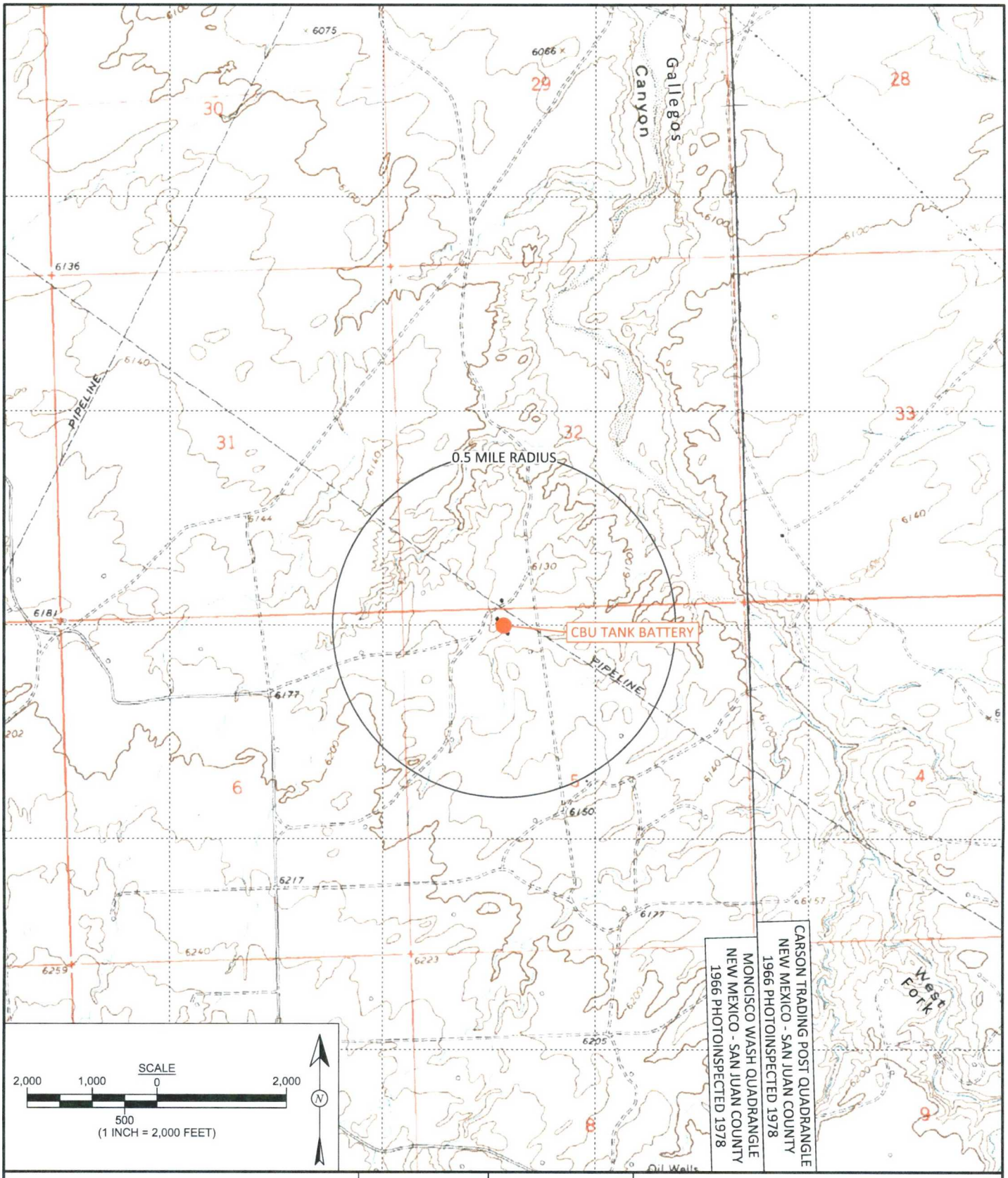
David J. Reese
Environmental Scientist

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Location Map
Figure 3. Excavation Soil Confirmation Sample Locations & Results
Waste Disposal Documentation
Photograph Log
Hall Analytical Reports 1808305, 1808306, 1809374, and 1809377
Envirotech Analytical Reports P810039, P810040, P810109, and P811074

C:\Users\emcnally\Dropbox (Animas Environmental)\0000 aes server client projects dropbox\2018 Client Projects\DJ Resources\CBU Tank Battery\DJR CBU Tank Battery Exc Clearance Report 121118.docx



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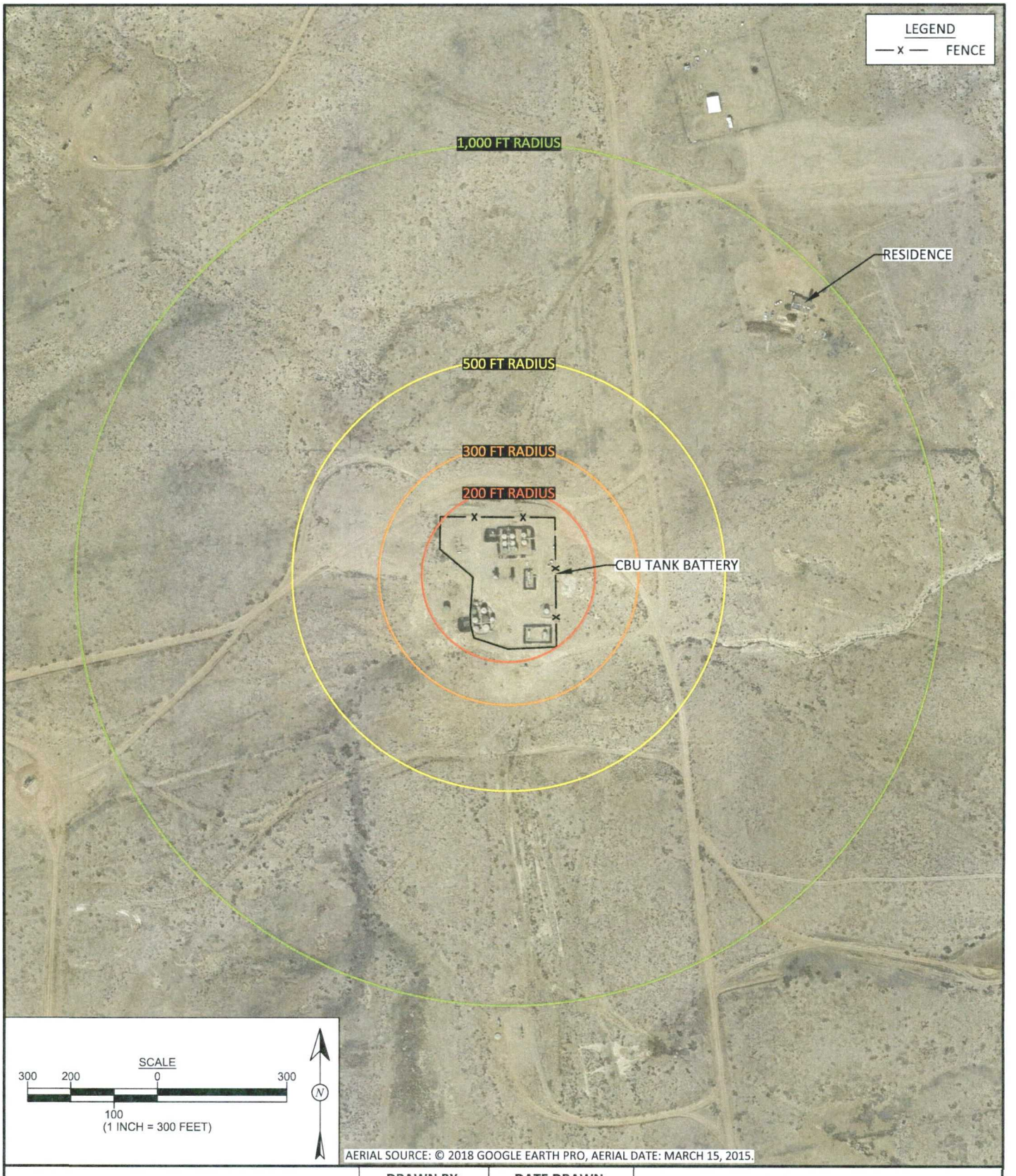
animasenvironmental.com

DRAWN BY: C. Lameman	**DATE DRAWN:** July 24, 2018
REVISIONS BY: C. Lameman	**DATE REVISED:** November 12, 2018
CHECKED BY: D. Reese	**DATE CHECKED:** November 12, 2018
APPROVED BY: E. McNally	**DATE APPROVED:** November 12, 2018

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
DJR OPERATING
CBU TANK BATTERY
NE¼ NW¼, SECTION 5, T25N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.43660, W108.13783



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DRAWN BY: C. Lameman	**DATE DRAWN:** July 24, 2018
REVISIONS BY: C. Lameman	**DATE REVISED:** November 12, 2018
CHECKED BY: D. Reese	**DATE CHECKED:** November 12, 2018
APPROVED BY: E. McNally	**DATE APPROVED:** November 12, 2018

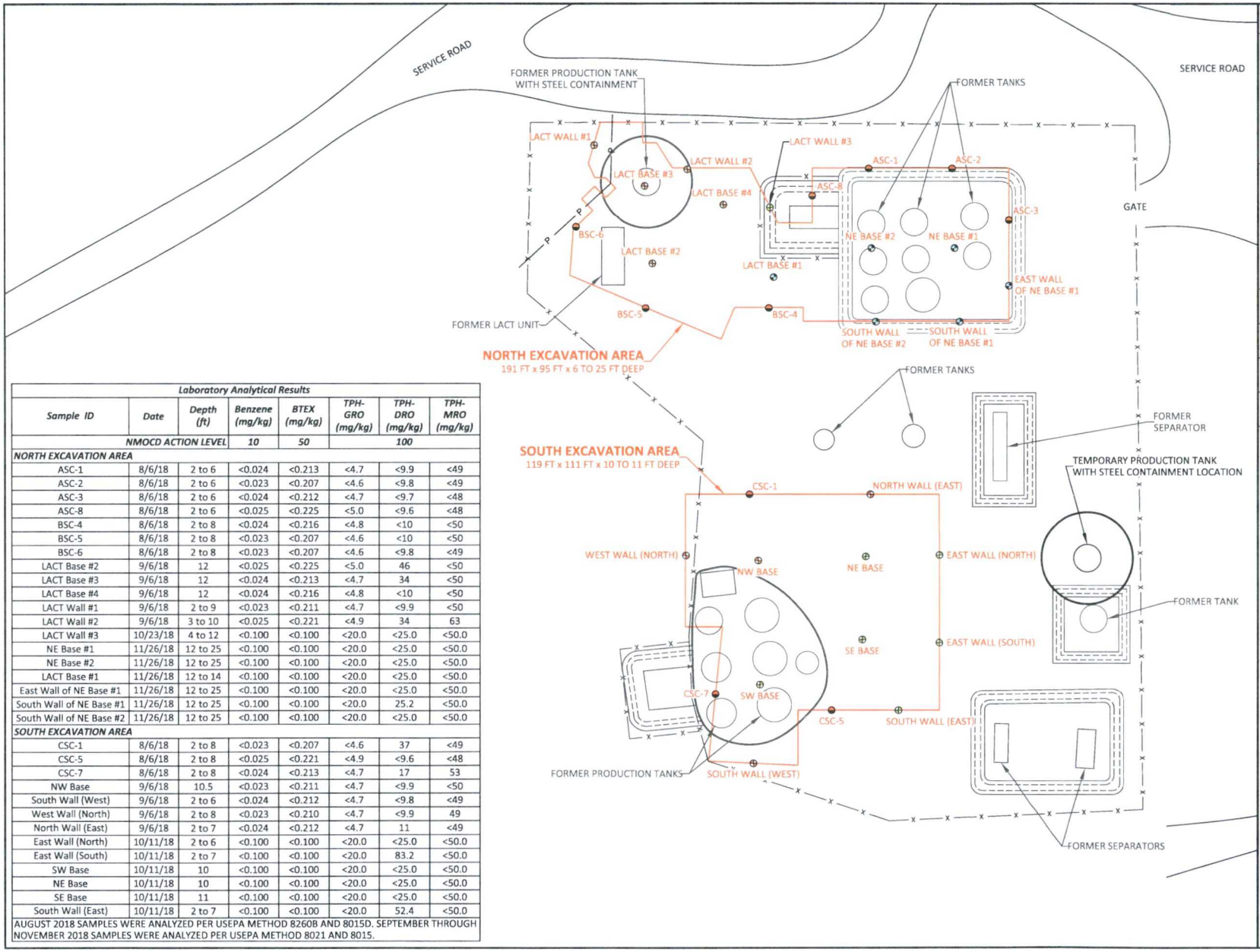
FIGURE 2

AERIAL SITE LOCATION MAP
DJR OPERATING
CBU TANK BATTERY
NE¼ NW¼, SECTION 5, T25N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.43660, W108.13783

FIGURE 3

EXCAVATION SOIL CONFIRMATION SAMPLE LOCATIONS AND RESULTS AUGUST THROUGH NOVEMBER 2018

DJR OPERATING
CBU TANK BATTERY
NE¼ NW¼, SECTION 5, T25N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.43660, W108.13783



Laboratory Analytical Results

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)
NMOCD ACTION LEVEL			10	50	100		
NORTH EXCAVATION AREA							
ASC-1	8/6/18	2 to 6	<0.024	<0.213	<4.7	<9.9	<49
ASC-2	8/6/18	2 to 6	<0.023	<0.207	<4.6	<9.8	<49
ASC-3	8/6/18	2 to 6	<0.024	<0.212	<4.7	<9.7	<48
ASC-8	8/6/18	2 to 6	<0.025	<0.225	<5.0	<9.6	<48
BSC-4	8/6/18	2 to 8	<0.024	<0.216	<4.8	<10	<50
BSC-5	8/6/18	2 to 8	<0.023	<0.207	<4.6	<10	<50
BSC-6	8/6/18	2 to 8	<0.023	<0.207	<4.6	<9.8	<49
LACT Base #2	9/6/18	12	<0.025	<0.225	<5.0	46	<50
LACT Base #3	9/6/18	12	<0.024	<0.213	<4.7	34	<50
LACT Base #4	9/6/18	12	<0.024	<0.216	<4.8	<10	<50
LACT Wall #1	9/6/18	2 to 9	<0.023	<0.211	<4.7	<9.9	<50
LACT Wall #2	9/6/18	3 to 10	<0.025	<0.221	<4.9	34	63
LACT Wall #3	10/23/18	4 to 12	<0.100	<0.100	<20.0	<25.0	<50.0
NE Base #1	11/26/18	12 to 25	<0.100	<0.100	<20.0	<25.0	<50.0
NE Base #2	11/26/18	12 to 25	<0.100	<0.100	<20.0	<25.0	<50.0
LACT Base #1	11/26/18	12 to 14	<0.100	<0.100	<20.0	<25.0	<50.0
East Wall of NE Base #1	11/26/18	12 to 25	<0.100	<0.100	<20.0	<25.0	<50.0
South Wall of NE Base #1	11/26/18	12 to 25	<0.100	<0.100	<20.0	25.2	<50.0
South Wall of NE Base #2	11/26/18	12 to 25	<0.100	<0.100	<20.0	<25.0	<50.0
SOUTH EXCAVATION AREA							
CSC-1	8/6/18	2 to 8	<0.023	<0.207	<4.6	37	<49
CSC-5	8/6/18	2 to 8	<0.025	<0.221	<4.9	<9.6	<48
CSC-7	8/6/18	2 to 8	<0.024	<0.213	<4.7	17	53
NW Base	9/6/18	10.5	<0.023	<0.211	<4.7	<9.9	<50
South Wall (West)	9/6/18	2 to 6	<0.024	<0.212	<4.7	<9.8	<49
West Wall (North)	9/6/18	2 to 8	<0.023	<0.210	<4.7	<9.9	49
North Wall (East)	9/6/18	2 to 7	<0.024	<0.212	<4.7	11	<49
East Wall (North)	10/11/18	2 to 6	<0.100	<0.100	<20.0	<25.0	<50.0
East Wall (South)	10/11/18	2 to 7	<0.100	<0.100	<20.0	83.2	<50.0
SW Base	10/11/18	10	<0.100	<0.100	<20.0	<25.0	<50.0
NE Base	10/11/18	10	<0.100	<0.100	<20.0	<25.0	<50.0
SE Base	10/11/18	11	<0.100	<0.100	<20.0	<25.0	<50.0
South Wall (East)	10/11/18	2 to 7	<0.100	<0.100	<20.0	52.4	<50.0

AUGUST 2018 SAMPLES WERE ANALYZED PER USEPA METHOD 8260B AND 8015D. SEPTEMBER THROUGH NOVEMBER 2018 SAMPLES WERE ANALYZED PER USEPA METHOD 8021 AND 8015.

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DRAWN BY:	DATE DRAWN:
C. Lameman	July 24, 2018
REVISIONS BY:	**DATE REVISED:**
C. Lameman	December 7, 2018
CHECKED BY:	**DATE CHECKED:**
T. Knight	December 7, 2018
APPROVED BY:	**DATE APPROVED:**
E. McNally	December 7, 2018

LEGEND

- AUGUST 2018 COMPOSITE SAMPLE LOCATIONS
- SEPTEMBER 2018 COMPOSITE SAMPLE LOCATIONS
- OCTOBER 2018 COMPOSITE SAMPLE LOCATIONS
- NOVEMBER 2018 COMPOSITE SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- —x— FENCE
- —P— APPROXIMATE BURIED PIPELINE

N

SCALE
40 20 0 40
10
(1 INCH = 40 FEET)

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 1: Initial north excavation area. Photo taken July 23, 2018.

Photo 2: Initial LACT excavation area. Photo taken July 23, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 3: Looking east at both the initial LACT and North excavation areas. Photo taken July 23, 2018.

Photo 4: Looking south at the South excavation area. Photo taken July 23, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 5: Looking west at the South excavation area. Photo taken July 23, 2018.

Photo 6: North excavation extension area. Photo taken August 13, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 7: LACT excavation extension area. Photo taken August 13, 2018.

Photo 8: East end of LACT excavation to the west end North excavation area. Photo taken August 13, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 9: South excavation area extension. Photo taken August 13, 2018.

Photo 10: South excavation area extension. Photo taken August 13, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 11: North excavation area extension. Photo taken by Blagg Engineering on September 6, 2018.

Photo 12: North excavation area connection to the LACT excavation area. Entire excavation now North excavation area. Photo taken by Blagg Engineering on September 6, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 13: LACT area excavation extension. Photo taken by Blagg Engineering on September 6, 2018.

Photo 14: South excavation area extension. Photo taken by Blagg Engineering on September 6, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 15: Final South excavation east half area. West half area back filled. Photo taken October 11, 2018.

Photo 16: Final South excavation SW Base area extension. Photo taken October 11, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 21: South excavation area back filled. Photo taken by DJR Operating on October 18, 2018.

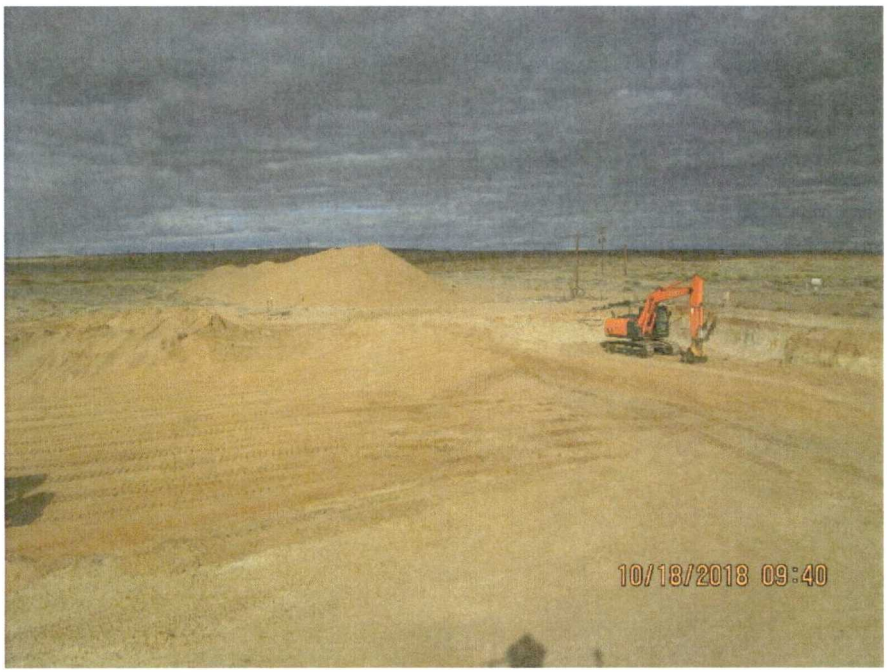

Photo 22: South excavation area back filled. Photo taken by DJR Operating on October 18, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 19: North excavation LACT area. Photo taken October 23, 2018.

Photo 20: South excavation area backfilled. Photo taken October 23, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 17: North excavation area. Photo taken October 23, 2018.

Photo 18: North excavation area. Photo taken October 23, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 23: Final North excavation area. Photo taken by Blagg Engineering on November 26, 2018.

Photo 24: Final North excavation LACT area. Photo taken by Blagg Engineering on November 26, 2018.

DJR Operating, LLC
CBU Tank Battery Initial and Final Excavations

Photo 25: Final North excavation area. Photo taken by DJR Operating on December 10, 2018.

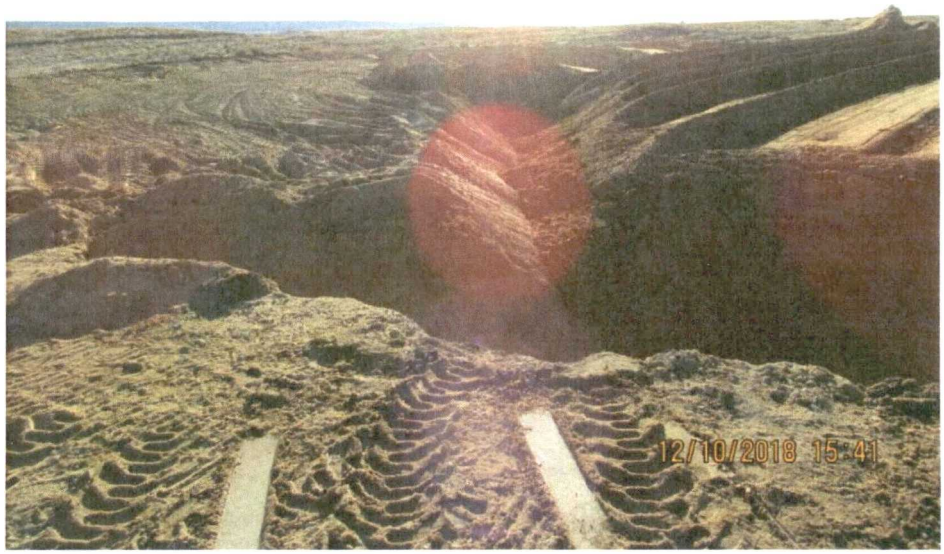

Photo 26: Final North excavation area. Photo taken by DJR Operating on December 10, 2018.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 13, 2018

Tami Knight
Animas Environmental Services
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: DJR CBU Tank Battery OrderNo.: 1808305

Dear Tami Knight:

Hall Environmental Analysis Laboratory received 17 sample(s) on 8/7/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-001 **Matrix:** SOIL

Client Sample ID: BSC-2
Collection Date: 8/6/2018 10:17:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	12	4.9		mg/Kg	1	8/8/2018 11:11:31 PM	39624
Surr: BFB	119	70-130		%Rec	1	8/8/2018 11:11:31 PM	39624
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	180	9.7		mg/Kg	1	8/8/2018 11:12:02 AM	39645
Motor Oil Range Organics (MRO)	180	48		mg/Kg	1	8/8/2018 11:12:02 AM	39645
Surr: DNOP	103	50.6-138		%Rec	1	8/8/2018 11:12:02 AM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.025		mg/Kg	1	8/8/2018 11:11:31 PM	39624
Toluene	ND	0.049		mg/Kg	1	8/8/2018 11:11:31 PM	39624
Ethylbenzene	ND	0.049		mg/Kg	1	8/8/2018 11:11:31 PM	39624
Xylenes, Total	0.14	0.098		mg/Kg	1	8/8/2018 11:11:31 PM	39624
Surr: 4-Bromofluorobenzene	130	70-130	S	%Rec	1	8/8/2018 11:11:31 PM	39624
Surr: Toluene-d8	92.8	70-130		%Rec	1	8/8/2018 11:11:31 PM	39624

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-002 **Matrix:** SOIL

Client Sample ID: BSC-3
Collection Date: 8/6/2018 10:21:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/9/2018 3:56:56 PM	39624
Surr: BFB	117	70-130		%Rec	1	8/9/2018 3:56:56 PM	39624
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	63	9.6		mg/Kg	1	8/8/2018 1:02:24 PM	39645
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	8/8/2018 1:02:24 PM	39645
Surr: DNOP	107	50.6-138		%Rec	1	8/8/2018 1:02:24 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/8/2018 11:34:34 PM	39624
Toluene	ND	0.048		mg/Kg	1	8/8/2018 11:34:34 PM	39624
Ethylbenzene	ND	0.048		mg/Kg	1	8/8/2018 11:34:34 PM	39624
Xylenes, Total	ND	0.096		mg/Kg	1	8/8/2018 11:34:34 PM	39624
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	8/8/2018 11:34:34 PM	39624
Surr: Toluene-d8	98.5	70-130		%Rec	1	8/8/2018 11:34:34 PM	39624

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-003 **Matrix:** SOIL

Client Sample ID: BSC-4
Collection Date: 8/6/2018 10:29:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/8/2018 11:57:37 PM	39624
Surr: BFB	113	70-130		%Rec	1	8/8/2018 11:57:37 PM	39624
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/8/2018 1:47:33 PM	39645
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/8/2018 1:47:33 PM	39645
Surr: DNOP	99.1	50.6-138		%Rec	1	8/8/2018 1:47:33 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/8/2018 11:57:37 PM	39624
Toluene	ND	0.048		mg/Kg	1	8/8/2018 11:57:37 PM	39624
Ethylbenzene	ND	0.048		mg/Kg	1	8/8/2018 11:57:37 PM	39624
Xylenes, Total	ND	0.096		mg/Kg	1	8/8/2018 11:57:37 PM	39624
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	8/8/2018 11:57:37 PM	39624
Surr: Toluene-d8	96.0	70-130		%Rec	1	8/8/2018 11:57:37 PM	39624

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-004 **Matrix:** SOIL

Client Sample ID: BSC-5
Collection Date: 8/6/2018 10:32:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/9/2018 12:20:33 AM	39624
Surr: BFB	112	70-130		%Rec	1	8/9/2018 12:20:33 AM	39624
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/8/2018 2:09:50 PM	39645
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/8/2018 2:09:50 PM	39645
Surr: DNOP	93.7	50.6-138		%Rec	1	8/8/2018 2:09:50 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	8/9/2018 12:20:33 AM	39624
Toluene	ND	0.046		mg/Kg	1	8/9/2018 12:20:33 AM	39624
Ethylbenzene	ND	0.046		mg/Kg	1	8/9/2018 12:20:33 AM	39624
Xylenes, Total	ND	0.092		mg/Kg	1	8/9/2018 12:20:33 AM	39624
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	8/9/2018 12:20:33 AM	39624
Surr: Toluene-d8	94.3	70-130		%Rec	1	8/9/2018 12:20:33 AM	39624

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-005 **Matrix:** SOIL

Client Sample ID: BSC-6
Collection Date: 8/6/2018 10:36:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/9/2018 12:43:42 AM	39624
Surr: BFB	104	70-130		%Rec	1	8/9/2018 12:43:42 AM	39624
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/8/2018 2:31:58 PM	39645
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/8/2018 2:31:58 PM	39645
Surr: DNOP	99.9	50.6-138		%Rec	1	8/8/2018 2:31:58 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	8/9/2018 12:43:42 AM	39624
Toluene	ND	0.046		mg/Kg	1	8/9/2018 12:43:42 AM	39624
Ethylbenzene	ND	0.046		mg/Kg	1	8/9/2018 12:43:42 AM	39624
Xylenes, Total	ND	0.092		mg/Kg	1	8/9/2018 12:43:42 AM	39624
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	8/9/2018 12:43:42 AM	39624
Surr: Toluene-d8	94.6	70-130		%Rec	1	8/9/2018 12:43:42 AM	39624

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-006 **Matrix:** SOIL

Client Sample ID: BSC-7
Collection Date: 8/6/2018 10:45:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	160	4.6		mg/Kg	1	8/9/2018 1:06:48 AM	39624
Surr: BFB	136	70-130	S	%Rec	1	8/9/2018 1:06:48 AM	39624
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	3600	99		mg/Kg	10	8/8/2018 3:16:31 PM	39645
Motor Oil Range Organics (MRO)	1500	500		mg/Kg	10	8/8/2018 3:16:31 PM	39645
Surr: DNOP	0	50.6-138	S	%Rec	10	8/8/2018 3:16:31 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	8/9/2018 1:06:48 AM	39624
Toluene	0.14	0.046		mg/Kg	1	8/9/2018 1:06:48 AM	39624
Ethylbenzene	0.23	0.046		mg/Kg	1	8/9/2018 1:06:48 AM	39624
Xylenes, Total	1.9	0.092		mg/Kg	1	8/9/2018 1:06:48 AM	39624
Surr: 4-Bromofluorobenzene	150	70-130	S	%Rec	1	8/9/2018 1:06:48 AM	39624
Surr: Toluene-d8	95.4	70-130		%Rec	1	8/9/2018 1:06:48 AM	39624

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-007 **Matrix:** SOIL

Client Sample ID: BSC-8
Collection Date: 8/6/2018 10:48:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/9/2018 4:20:14 PM	39624
Surr: BFB	122	70-130		%Rec	1	8/9/2018 4:20:14 PM	39624
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	400	10		mg/Kg	1	8/8/2018 3:38:48 PM	39645
Motor Oil Range Organics (MRO)	320	50		mg/Kg	1	8/8/2018 3:38:48 PM	39645
Surr: DNOP	109	50.6-138		%Rec	1	8/8/2018 3:38:48 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/9/2018 1:29:53 AM	39624
Toluene	ND	0.049		mg/Kg	1	8/9/2018 1:29:53 AM	39624
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2018 1:29:53 AM	39624
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2018 1:29:53 AM	39624
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	8/9/2018 1:29:53 AM	39624
Surr: Toluene-d8	92.6	70-130		%Rec	1	8/9/2018 1:29:53 AM	39624

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-008 **Matrix:** SOIL

Client Sample ID: ASC-1
Collection Date: 8/6/2018 11:07:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/9/2018 1:53:02 AM	39639
Surr: BFB	107	70-130		%Rec	1	8/9/2018 1:53:02 AM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/8/2018 4:45:53 PM	39645
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/8/2018 4:45:53 PM	39645
Surr: DNOP	101	50.6-138		%Rec	1	8/8/2018 4:45:53 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/9/2018 1:53:02 AM	39639
Toluene	ND	0.047		mg/Kg	1	8/9/2018 1:53:02 AM	39639
Ethylbenzene	ND	0.047		mg/Kg	1	8/9/2018 1:53:02 AM	39639
Xylenes, Total	ND	0.095		mg/Kg	1	8/9/2018 1:53:02 AM	39639
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	8/9/2018 1:53:02 AM	39639
Surr: Toluene-d8	96.6	70-130		%Rec	1	8/9/2018 1:53:02 AM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-009 **Matrix:** SOIL

Client Sample ID: ASC-2
Collection Date: 8/6/2018 11:09:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/9/2018 3:02:21 AM	39639
Surr: BFB	115	70-130		%Rec	1	8/9/2018 3:02:21 AM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	8/8/2018 5:30:07 PM	39645
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/8/2018 5:30:07 PM	39645
Surr: DNOP	98.1	50.6-138		%Rec	1	8/8/2018 5:30:07 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	8/9/2018 3:02:21 AM	39639
Toluene	ND	0.046		mg/Kg	1	8/9/2018 3:02:21 AM	39639
Ethylbenzene	ND	0.046		mg/Kg	1	8/9/2018 3:02:21 AM	39639
Xylenes, Total	ND	0.092		mg/Kg	1	8/9/2018 3:02:21 AM	39639
Surr: 4-Bromofluorobenzene	130	70-130		%Rec	1	8/9/2018 3:02:21 AM	39639
Surr: Toluene-d8	91.7	70-130		%Rec	1	8/9/2018 3:02:21 AM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-010 **Matrix:** SOIL

Client Sample ID: ASC-3
Collection Date: 8/6/2018 11:11:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/9/2018 4:11:45 AM	39639
Surr: BFB	116	70-130		%Rec	1	8/9/2018 4:11:45 AM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/8/2018 6:14:31 PM	39645
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/8/2018 6:14:31 PM	39645
Surr: DNOP	106	50.6-138		%Rec	1	8/8/2018 6:14:31 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/9/2018 4:11:45 AM	39639
Toluene	ND	0.047		mg/Kg	1	8/9/2018 4:11:45 AM	39639
Ethylbenzene	ND	0.047		mg/Kg	1	8/9/2018 4:11:45 AM	39639
Xylenes, Total	ND	0.094		mg/Kg	1	8/9/2018 4:11:45 AM	39639
Surr: 4-Bromofluorobenzene	131	70-130	S	%Rec	1	8/9/2018 4:11:45 AM	39639
Surr: Toluene-d8	90.4	70-130		%Rec	1	8/9/2018 4:11:45 AM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-011 **Matrix:** SOIL

Client Sample ID: ASC-4
Collection Date: 8/6/2018 11:13:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/9/2018 4:34:40 AM	39639
Surr: BFB	110	70-130		%Rec	1	8/9/2018 4:34:40 AM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/8/2018 6:58:53 PM	39645
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/8/2018 6:58:53 PM	39645
Surr: DNOP	104	50.6-138		%Rec	1	8/8/2018 6:58:53 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/9/2018 4:34:40 AM	39639
Toluene	ND	0.048		mg/Kg	1	8/9/2018 4:34:40 AM	39639
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2018 4:34:40 AM	39639
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2018 4:34:40 AM	39639
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	8/9/2018 4:34:40 AM	39639
Surr: Toluene-d8	92.6	70-130		%Rec	1	8/9/2018 4:34:40 AM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-012 **Matrix:** SOIL

Client Sample ID: ASC-5
Collection Date: 8/6/2018 11:18:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/9/2018 4:57:49 AM	39639
Surr: BFB	113	70-130		%Rec	1	8/9/2018 4:57:49 AM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	12	10		mg/Kg	1	8/8/2018 8:27:30 PM	39645
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/8/2018 8:27:30 PM	39645
Surr: DNOP	92.8	50.6-138		%Rec	1	8/8/2018 8:27:30 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.025		mg/Kg	1	8/9/2018 4:57:49 AM	39639
Toluene	ND	0.050		mg/Kg	1	8/9/2018 4:57:49 AM	39639
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2018 4:57:49 AM	39639
Xylenes, Total	ND	0.099		mg/Kg	1	8/9/2018 4:57:49 AM	39639
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	8/9/2018 4:57:49 AM	39639
Surr: Toluene-d8	91.9	70-130		%Rec	1	8/9/2018 4:57:49 AM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-013 **Matrix:** SOIL

Client Sample ID: ASC-6
Collection Date: 8/6/2018 11:20:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/9/2018 5:20:46 AM	39639
Surr: BFB	114	70-130		%Rec	1	8/9/2018 5:20:46 AM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	34	10		mg/Kg	1	8/8/2018 9:33:56 PM	39645
Motor Oil Range Organics (MRO)	66	50		mg/Kg	1	8/8/2018 9:33:56 PM	39645
Surr: DNOP	101	50.6-138		%Rec	1	8/8/2018 9:33:56 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.025		mg/Kg	1	8/9/2018 5:20:46 AM	39639
Toluene	ND	0.050		mg/Kg	1	8/9/2018 5:20:46 AM	39639
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2018 5:20:46 AM	39639
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2018 5:20:46 AM	39639
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	8/9/2018 5:20:46 AM	39639
Surr: Toluene-d8	96.4	70-130		%Rec	1	8/9/2018 5:20:46 AM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-014 **Matrix:** SOIL

Client Sample ID: ASC-7
Collection Date: 8/6/2018 11:45:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/9/2018 5:43:55 AM	39639
Surr: BFB	112	70-130		%Rec	1	8/9/2018 5:43:55 AM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	200	9.8		mg/Kg	1	8/8/2018 10:40:21 PM	39645
Motor Oil Range Organics (MRO)	160	49		mg/Kg	1	8/8/2018 10:40:21 PM	39645
Surr: DNOP	118	50.6-138		%Rec	1	8/8/2018 10:40:21 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/9/2018 5:43:55 AM	39639
Toluene	ND	0.048		mg/Kg	1	8/9/2018 5:43:55 AM	39639
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2018 5:43:55 AM	39639
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2018 5:43:55 AM	39639
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	8/9/2018 5:43:55 AM	39639
Surr: Toluene-d8	96.5	70-130		%Rec	1	8/9/2018 5:43:55 AM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-015 **Matrix:** SOIL

Client Sample ID: ASC-8
Collection Date: 8/6/2018 11:48:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/9/2018 6:06:57 AM	39639
Surr: BFB	115	70-130		%Rec	1	8/9/2018 6:06:57 AM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/8/2018 11:46:40 PM	39645
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/8/2018 11:46:40 PM	39645
Surr: DNOP	62.9	50.6-138		%Rec	1	8/8/2018 11:46:40 PM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.025		mg/Kg	1	8/9/2018 6:06:57 AM	39639
Toluene	ND	0.050		mg/Kg	1	8/9/2018 6:06:57 AM	39639
Ethylbenzene	ND	0.050		mg/Kg	1	8/9/2018 6:06:57 AM	39639
Xylenes, Total	ND	0.10		mg/Kg	1	8/9/2018 6:06:57 AM	39639
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	8/9/2018 6:06:57 AM	39639
Surr: Toluene-d8	96.8	70-130		%Rec	1	8/9/2018 6:06:57 AM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-016 **Matrix:** SOIL

Client Sample ID: ASC-9
Collection Date: 8/6/2018 11:49:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	20	4.8		mg/Kg	1	8/9/2018 6:16:26 PM	39639
Surr: BFB	128	70-130		%Rec	1	8/9/2018 6:16:26 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	450	9.8		mg/Kg	1	8/9/2018 12:31:08 AM	39645
Motor Oil Range Organics (MRO)	320	49		mg/Kg	1	8/9/2018 12:31:08 AM	39645
Surr: DNOP	86.4	50.6-138		%Rec	1	8/9/2018 12:31:08 AM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/9/2018 6:16:26 PM	39639
Toluene	ND	0.048		mg/Kg	1	8/9/2018 6:16:26 PM	39639
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2018 6:16:26 PM	39639
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2018 6:16:26 PM	39639
Surr: 4-Bromofluorobenzene	142	70-130	S	%Rec	1	8/9/2018 6:16:26 PM	39639
Surr: Toluene-d8	92.2	70-130		%Rec	1	8/9/2018 6:16:26 PM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808305-017 **Matrix:** SOIL

Client Sample ID: ASC-10
Collection Date: 8/6/2018 11:51:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	10	4.8		mg/Kg	1	8/9/2018 6:39:41 PM	39639
Surr: BFB	118	70-130		%Rec	1	8/9/2018 6:39:41 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	570	9.6		mg/Kg	1	8/9/2018 1:37:42 AM	39645
Motor Oil Range Organics (MRO)	320	48		mg/Kg	1	8/9/2018 1:37:42 AM	39645
Surr: DNOP	100	50.6-138		%Rec	1	8/9/2018 1:37:42 AM	39645
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/9/2018 6:39:41 PM	39639
Toluene	ND	0.048		mg/Kg	1	8/9/2018 6:39:41 PM	39639
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2018 6:39:41 PM	39639
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2018 6:39:41 PM	39639
Surr: 4-Bromofluorobenzene	132	70-130	S	%Rec	1	8/9/2018 6:39:41 PM	39639
Surr: Toluene-d8	98.7	70-130		%Rec	1	8/9/2018 6:39:41 PM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1808305**

13-Aug-18

Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Sample ID **MB-39645**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **39645**	RunNo: **53283**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1753765** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.2	50.6	138			

Sample ID **LCS-39645**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **39645**	RunNo: **53283**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1753983** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	95.0	70	130			
Surr: DNOP	3.9		5.000		78.8	50.6	138			

Sample ID **1808305-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BSC-2**	Batch ID: **39645**	RunNo: **53283**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1754183** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	230	10	49.75	179.1	111	53.5	126			
Surr: DNOP	5.3		4.975		107	50.6	138			

Sample ID **1808305-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BSC-2**	Batch ID: **39645**	RunNo: **53283**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1754459** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	210	9.8	49.16	179.1	64.5	53.5	126	10.6	21.7	
Surr: DNOP	5.0		4.916		102	50.6	138	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1808305**

13-Aug-18

Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Sample ID **1808305-009ams**	SampType: **MS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **ASC-2**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/9/2018**	SeqNo: **1755220** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9597	0	96.9	80	120			
Toluene	1.0	0.048	0.9597	0.007329	108	80	120			
Ethylbenzene	1.1	0.048	0.9597	0	112	82	121			
Xylenes, Total	3.2	0.096	2.879	0.02174	111	80.2	120			
Surr: 4-Bromofluorobenzene	0.56		0.4798		116	70	130			
Surr: Toluene-d8	0.45		0.4798		93.8	70	130			

Sample ID **1808305-009amsd**	SampType: **MSD4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **ASC-2**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/9/2018**	SeqNo: **1755221** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.023	0.9372	0	92.4	80	120	7.13	20	
Toluene	0.94	0.047	0.9372	0.007329	99.8	80	120	9.96	20	
Ethylbenzene	1.0	0.047	0.9372	0	110	82	121	3.99	20	
Xylenes, Total	3.0	0.094	2.812	0.02174	105	80.2	120	8.46	20	
Surr: 4-Bromofluorobenzene	0.54		0.4686		115	70	130	0	0	
Surr: Toluene-d8	0.42		0.4686		90.5	70	130	0	0	

Sample ID **lcs-39624**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **39624**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755228** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.6	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	0.56		0.5000		113	70	130			
Surr: Toluene-d8	0.46		0.5000		92.4	70	130			

Sample ID **lcs-39639**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755229** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.3	80	120			
Toluene	0.96	0.050	1.000	0	96.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1808305**

13-Aug-18

Client: Animas Environmental Services
Project: DJR CBU Tank Battery

Sample ID **lcs-39639**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755229** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.58		0.5000		117	70	130			
Surr: Toluene-d8	0.45		0.5000		90.9	70	130			

Sample ID **mb-39624**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **39624**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755230** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.63		0.5000		126	70	130			
Surr: Toluene-d8	0.47		0.5000		93.3	70	130			

Sample ID **mb-39639**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755231** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.65		0.5000		130	70	130			S
Surr: Toluene-d8	0.48		0.5000		96.4	70	130			

Sample ID **lcs-39659**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **39659**	RunNo: **53327**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756110** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.58		0.5000		117	70	130			
Surr: Toluene-d8	0.48		0.5000		95.8	70	130			

Sample ID **mb-39659**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **39659**	RunNo: **53327**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756111** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1808305**

13-Aug-18

Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Sample ID **mb-39659**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **39659**	RunNo: **53327**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756111** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.65		0.5000		130	70	130			
Surr: Toluene-d8	0.47		0.5000		93.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1808305**

13-Aug-18

Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Sample ID **1808305-008ams**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **ASC-1**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/9/2018**	SeqNo: **1755069** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.7	23.30	2.284	96.7	64.7	142			
Surr: BFB	480		466.0		103	70	130			

Sample ID **1808305-008amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **ASC-1**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/9/2018**	SeqNo: **1755070** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.6	22.91	2.284	99.6	64.7	142	1.11	20	
Surr: BFB	480		458.3		104	70	130	0	0	

Sample ID **lcs-39624**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **39624**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755078** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	70	130			
Surr: BFB	530		500.0		105	70	130			

Sample ID **lcs-39639**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755079** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID **mb-39624**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **39624**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755080** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	560		500.0		112	70	130			

Sample ID **mb-39639**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755081** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- PQL Practical Quanitative Limit
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1808305**

13-Aug-18

Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Sample ID **mb-39639**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755081** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	580		500.0		116	70	130			

Sample ID **lcs-39659**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **39659**	RunNo: **53327**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756042** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	540		500.0		108	70	130			

Sample ID **mb-39659**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **39659**	RunNo: **53327**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756043** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	580		500.0		115	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1808305 RcptNo: 1

Received By: Anne Thorne 8/7/2018 7:00:00 AM Anne Thorne

Completed By: Anne Thorne 8/7/2018 7:26:40 AM Anne Thorne

Reviewed By: JO 8/7/18

Labeled by: ENM 8/7/18

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
ENM 8/7/18
Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			
2	1.3	Good	Yes			

Chain-of-Custody Record

Client:	Animas Environmental Services
Mailing Address:	604 W Pinon St. Farmington, NM 87401
Phone #:	505-564-2281
Email or Fax#:	tknight@animasenvironmental.com
QA/QC Package:	X Standard ☐ Level 4 (Full Validation)
Accreditation:	☐ NELAP ☐ Other______
	☐ EDD (Type) ______

Turn-Around Time: Standard X Rush Due 8/13/18 NOON

Project Name: DJR CBU Tank Battery

Project #:

Project Manager: T. Knight

Sampler: TK and SJ

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.4-CF 1.0=2.4; 2.3-CF 1.0=1.3 (2 coolers)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1808305	8021 - BTEX	8015M - DRO/GRO/MRO
8/6/18	1017	Soil	BSC-2	1-9oz	cool	-201	X	X
8/6/18	1021	Soil	BSC-3	1-9oz	cool	-202	X	X
8/6/18	1029	Soil	BSC-4	1-9oz	cool	-203	X	X
8/6/18	1032	Soil	BSC-5	1-9oz	cool	-204	X	X
8/6/18	1036	Soil	BSC-6	1-9oz	cool	-205	X	X
8/6/18	1045	Soil	BSC-7	2- 4oz	cool	-206	X	X
8/6/18	1048	Soil	BSC-8	2- 4oz	cool	-207	X	X
8/6/18	1107	Soil	ASC-1	2- 4oz	cool	-208	X	X
8/6/18	1109	Soil	ASC-2	2- 4oz	cool	-209	X	X
8/6/18	1111	Soil	ASC-3	2- 4oz	cool	-210	X	X
8/6/18	1113	Soil	ASC-4	2- 4oz	cool	-211	X	X

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/6/18	1705	Tami [signature]	Christe Walt [signature]	8/6/18	1709
8/6/18	1826	Christe Walt [signature]	[signature]	08/07/18	0700

Remarks: Due 8/13/18 by Noon, Bill to DJR Operating, ATTN: Amy Archuleta

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 604 W Pinon St.
Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: tknight@animasenvironmental.com

QA/QC Package:
X Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other_______
☐ EDD (Type) _______

Turn-Around Time:
Standard X Rush Due 8/13/18 NOON

Project Name: DJR CBU Tank Battery

Project #:

Project Manager: T. Knight

Sampler: TK and SJ

On Ice: X Yes ☐ No

Sample Temperature: 2.4-0.1=2.4 / 2.3-0.1=1.3 (2 coolers)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1808305	8021 - BTEX	8015M - DRO/GRO/MRO
8/6/18	1118	Soil	ASC-5	2- 4oz	cool	-012	X	X
8/6/18	1120	Soil	ASC-6	2- 4oz	cool	-013	X	X
8/6/18	1145	Soil	ASC-7	2- 4oz	cool	-014	X	X
8/6/18	1148	Soil	ASC-8	2- 4oz	cool	-015	X	X
8/6/18	1149	Soil	ASC-9	2- 4oz	cool	-016	X	X
8/6/18	1151	Soil	ASC-10	2- 4oz	cool	-017	X	X
							X	X
							X	X
							X	X
							X	X
							X	X

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/6/18	1709	Dami [signature]	Christ Wact [signature]	8/6/18	1709
8/6/18	1824	Christ Wact [signature]	[signature]	08/07/18	0700

Remarks: Due 8/13/18 by Noon, Bill to DJR Operating, ATTN: Amy Archuleta

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 13, 2018

Tami Knight
Animas Environmental Services
604 Pinon Street
Farmington, NM 87401
TEL:
FAX

RE: DJR CBU Tank Battery OrderNo.: 1808306

Dear Tami Knight:

Hall Environmental Analysis Laboratory received 11 sample(s) on 8/7/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808306-001 **Matrix:** SOIL

Client Sample ID: CSC-1
Collection Date: 8/6/2018 9:06:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/10/2018 11:14:47 AM	39639
Surr: BFB	115	70-130		%Rec	1	8/10/2018 11:14:47 AM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	37	9.7		mg/Kg	1	8/10/2018 10:21:42 AM	39658
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/10/2018 10:21:42 AM	39658
Surr: DNOP	88.1	50.6-138		%Rec	1	8/10/2018 10:21:42 AM	39658
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	8/9/2018 7:02:56 PM	39639
Toluene	ND	0.046		mg/Kg	1	8/9/2018 7:02:56 PM	39639
Ethylbenzene	ND	0.046		mg/Kg	1	8/9/2018 7:02:56 PM	39639
Xylenes, Total	ND	0.092		mg/Kg	1	8/9/2018 7:02:56 PM	39639
Surr: 4-Bromofluorobenzene	130	70-130		%Rec	1	8/9/2018 7:02:56 PM	39639
Surr: Toluene-d8	99.2	70-130		%Rec	1	8/9/2018 7:02:56 PM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808306-002 **Matrix:** SOIL

Client Sample ID: CSC-2
Collection Date: 8/6/2018 9:08:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/9/2018 7:26:01 PM	39639
Surr: BFB	115	70-130		%Rec	1	8/9/2018 7:26:01 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	190	9.7		mg/Kg	1	8/10/2018 11:10:47 AM	39658
Motor Oil Range Organics (MRO)	300	49		mg/Kg	1	8/10/2018 11:10:47 AM	39658
Surr: DNOP	95.9	50.6-138		%Rec	1	8/10/2018 11:10:47 AM	39658
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/9/2018 7:26:01 PM	39639
Toluene	ND	0.048		mg/Kg	1	8/9/2018 7:26:01 PM	39639
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2018 7:26:01 PM	39639
Xylenes, Total	ND	0.097		mg/Kg	1	8/9/2018 7:26:01 PM	39639
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	8/9/2018 7:26:01 PM	39639
Surr: Toluene-d8	101	70-130		%Rec	1	8/9/2018 7:26:01 PM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808306-003 **Matrix:** SOIL

Client Sample ID: CSC-3
Collection Date: 8/6/2018 9:10:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/9/2018 7:49:13 PM	39639
Surr: BFB	117	70-130		%Rec	1	8/9/2018 7:49:13 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	270	9.2		mg/Kg	1	8/10/2018 12:39:10 PM	39658
Motor Oil Range Organics (MRO)	520	46		mg/Kg	1	8/10/2018 12:39:10 PM	39658
Surr: DNOP	102	50.6-138		%Rec	1	8/10/2018 12:39:10 PM	39658
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/9/2018 7:49:13 PM	39639
Toluene	ND	0.047		mg/Kg	1	8/9/2018 7:49:13 PM	39639
Ethylbenzene	ND	0.047		mg/Kg	1	8/9/2018 7:49:13 PM	39639
Xylenes, Total	ND	0.094		mg/Kg	1	8/9/2018 7:49:13 PM	39639
Surr: 4-Bromofluorobenzene	131	70-130	S	%Rec	1	8/9/2018 7:49:13 PM	39639
Surr: Toluene-d8	97.2	70-130		%Rec	1	8/9/2018 7:49:13 PM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808306-004 **Matrix:** SOIL

Client Sample ID: CSC-4
Collection Date: 8/6/2018 9:13:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/9/2018 8:12:16 PM	39639
Surr: BFB	117	70-130		%Rec	1	8/9/2018 8:12:16 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	160	9.6		mg/Kg	1	8/10/2018 1:46:29 PM	39658
Motor Oil Range Organics (MRO)	420	48		mg/Kg	1	8/10/2018 1:46:29 PM	39658
Surr: DNOP	99.7	50.6-138		%Rec	1	8/10/2018 1:46:29 PM	39658
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	8/9/2018 8:12:16 PM	39639
Toluene	ND	0.047		mg/Kg	1	8/9/2018 8:12:16 PM	39639
Ethylbenzene	ND	0.047		mg/Kg	1	8/9/2018 8:12:16 PM	39639
Xylenes, Total	ND	0.094		mg/Kg	1	8/9/2018 8:12:16 PM	39639
Surr: 4-Bromofluorobenzene	132	70-130	S	%Rec	1	8/9/2018 8:12:16 PM	39639
Surr: Toluene-d8	91.6	70-130		%Rec	1	8/9/2018 8:12:16 PM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808306-005 **Matrix:** SOIL

Client Sample ID: CSC-5
Collection Date: 8/6/2018 9:18:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/9/2018 8:35:21 PM	39639
Surr: BFB	115	70-130		%Rec	1	8/9/2018 8:35:21 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/10/2018 3:02:39 PM	39658
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/10/2018 3:02:39 PM	39658
Surr: DNOP	91.4	50.6-138		%Rec	1	8/10/2018 3:02:39 PM	39658
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.025		mg/Kg	1	8/9/2018 8:35:21 PM	39639
Toluene	ND	0.049		mg/Kg	1	8/9/2018 8:35:21 PM	39639
Ethylbenzene	ND	0.049		mg/Kg	1	8/9/2018 8:35:21 PM	39639
Xylenes, Total	ND	0.098		mg/Kg	1	8/9/2018 8:35:21 PM	39639
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	8/9/2018 8:35:21 PM	39639
Surr: Toluene-d8	91.2	70-130		%Rec	1	8/9/2018 8:35:21 PM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: CSC-6
Project: DJR CBU Tank Battery
Collection Date: 8/6/2018 9:27:00 AM
Lab ID: 1808306-006 **Matrix:** SOIL
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/9/2018 10:30:36 PM	39639
Surr: BFB	114	70-130		%Rec	1	8/9/2018 10:30:36 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	38	9.9		mg/Kg	1	8/10/2018 3:24:44 PM	39658
Motor Oil Range Organics (MRO)	110	49		mg/Kg	1	8/10/2018 3:24:44 PM	39658
Surr: DNOP	99.0	50.6-138		%Rec	1	8/10/2018 3:24:44 PM	39658
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	8/9/2018 10:30:36 PM	39639
Toluene	ND	0.047		mg/Kg	1	8/9/2018 10:30:36 PM	39639
Ethylbenzene	ND	0.047		mg/Kg	1	8/9/2018 10:30:36 PM	39639
Xylenes, Total	ND	0.094		mg/Kg	1	8/9/2018 10:30:36 PM	39639
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	8/9/2018 10:30:36 PM	39639
Surr: Toluene-d8	93.5	70-130		%Rec	1	8/9/2018 10:30:36 PM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808306-007 **Matrix:** SOIL

Client Sample ID: CSC-7
Collection Date: 8/6/2018 9:37:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/9/2018 10:53:40 PM	39639
Surr: BFB	116	70-130		%Rec	1	8/9/2018 10:53:40 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	17	8.9		mg/Kg	1	8/10/2018 4:10:56 PM	39658
Motor Oil Range Organics (MRO)	53	44		mg/Kg	1	8/10/2018 4:10:56 PM	39658
Surr: DNOP	98.0	50.6-138		%Rec	1	8/10/2018 4:10:56 PM	39658
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/9/2018 10:53:40 PM	39639
Toluene	ND	0.047		mg/Kg	1	8/9/2018 10:53:40 PM	39639
Ethylbenzene	ND	0.047		mg/Kg	1	8/9/2018 10:53:40 PM	39639
Xylenes, Total	ND	0.095		mg/Kg	1	8/9/2018 10:53:40 PM	39639
Surr: 4-Bromofluorobenzene	130	70-130	S	%Rec	1	8/9/2018 10:53:40 PM	39639
Surr: Toluene-d8	93.7	70-130		%Rec	1	8/9/2018 10:53:40 PM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808306-008 **Matrix:** SOIL

Client Sample ID: CSC-8
Collection Date: 8/6/2018 9:43:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/9/2018 11:16:41 PM	39639
Surr: BFB	112	70-130		%Rec	1	8/9/2018 11:16:41 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	150	8.9		mg/Kg	1	8/10/2018 4:36:58 PM	39658
Motor Oil Range Organics (MRO)	190	45		mg/Kg	1	8/10/2018 4:36:58 PM	39658
Surr: DNOP	103	50.6-138		%Rec	1	8/10/2018 4:36:58 PM	39658
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.023		mg/Kg	1	8/9/2018 11:16:41 PM	39639
Toluene	ND	0.046		mg/Kg	1	8/9/2018 11:16:41 PM	39639
Ethylbenzene	ND	0.046		mg/Kg	1	8/9/2018 11:16:41 PM	39639
Xylenes, Total	ND	0.093		mg/Kg	1	8/9/2018 11:16:41 PM	39639
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	8/9/2018 11:16:41 PM	39639
Surr: Toluene-d8	92.4	70-130		%Rec	1	8/9/2018 11:16:41 PM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808306-009 **Matrix:** SOIL

Client Sample ID: CSC-9
Collection Date: 8/6/2018 9:46:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/9/2018 11:39:51 PM	39639
Surr: BFB	117	70-130		%Rec	1	8/9/2018 11:39:51 PM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	65	9.3		mg/Kg	1	8/10/2018 5:43:16 PM	39658
Motor Oil Range Organics (MRO)	99	47		mg/Kg	1	8/10/2018 5:43:16 PM	39658
Surr: DNOP	98.2	50.6-138		%Rec	1	8/10/2018 5:43:16 PM	39658
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/9/2018 11:39:51 PM	39639
Toluene	ND	0.048		mg/Kg	1	8/9/2018 11:39:51 PM	39639
Ethylbenzene	ND	0.048		mg/Kg	1	8/9/2018 11:39:51 PM	39639
Xylenes, Total	ND	0.095		mg/Kg	1	8/9/2018 11:39:51 PM	39639
Surr: 4-Bromofluorobenzene	131	70-130	S	%Rec	1	8/9/2018 11:39:51 PM	39639
Surr: Toluene-d8	94.2	70-130		%Rec	1	8/9/2018 11:39:51 PM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808306-010 **Matrix:** SOIL

Client Sample ID: CSC-10
Collection Date: 8/6/2018 9:56:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	7.3	4.8		mg/Kg	1	8/10/2018 12:02:56 AM	39639
Surr: BFB	126	70-130		%Rec	1	8/10/2018 12:02:56 AM	39639
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	840	95		mg/Kg	10	8/10/2018 6:50:00 PM	39658
Motor Oil Range Organics (MRO)	550	480		mg/Kg	10	8/10/2018 6:50:00 PM	39658
Surr: DNOP	0	50.6-138	S	%Rec	10	8/10/2018 6:50:00 PM	39658
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/10/2018 12:02:56 AM	39639
Toluene	ND	0.048		mg/Kg	1	8/10/2018 12:02:56 AM	39639
Ethylbenzene	ND	0.048		mg/Kg	1	8/10/2018 12:02:56 AM	39639
Xylenes, Total	ND	0.095		mg/Kg	1	8/10/2018 12:02:56 AM	39639
Surr: 4-Bromofluorobenzene	142	70-130	S	%Rec	1	8/10/2018 12:02:56 AM	39639
Surr: Toluene-d8	94.3	70-130		%Rec	1	8/10/2018 12:02:56 AM	39639

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: DJR CBU Tank Battery
Lab ID: 1808306-011 **Matrix:** SOIL

Client Sample ID: BSC-1
Collection Date: 8/6/2018 10:12:00 AM
Received Date: 8/7/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **AG**	
Gasoline Range Organics (GRO)	120	4.9		mg/Kg	1	8/10/2018 1:35:22 AM	39659
Surr: BFB	155	70-130	S	%Rec	1	8/10/2018 1:35:22 AM	39659
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	1800	93		mg/Kg	10	8/10/2018 7:56:35 PM	39658
Motor Oil Range Organics (MRO)	860	460		mg/Kg	10	8/10/2018 7:56:35 PM	39658
Surr: DNOP	0	50.6-138	S	%Rec	10	8/10/2018 7:56:35 PM	39658
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **AG**	
Benzene	ND	0.024		mg/Kg	1	8/10/2018 1:35:22 AM	39659
Toluene	ND	0.049		mg/Kg	1	8/10/2018 1:35:22 AM	39659
Ethylbenzene	0.21	0.049		mg/Kg	1	8/10/2018 1:35:22 AM	39659
Xylenes, Total	1.3	0.097		mg/Kg	1	8/10/2018 1:35:22 AM	39659
Surr: 4-Bromofluorobenzene	177	70-130	S	%Rec	1	8/10/2018 1:35:22 AM	39659
Surr: Toluene-d8	93.4	70-130		%Rec	1	8/10/2018 1:35:22 AM	39659

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1808306**

13-Aug-18

Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Sample ID **MB-39658**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **39658**	RunNo: **53354**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756923** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.8		10.00		78.5	50.6	138			

Sample ID **LCS-39658**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **39658**	RunNo: **53354**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756924** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.5	70	130			
Surr: DNOP	3.5		5.000		70.7	50.6	138			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1808306**

13-Aug-18

Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Sample ID **1808306-011ams**	SampType: **MS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BSC-1**	Batch ID: **39659**	RunNo: **53327**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756100** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.023	0.9276	0.008841	91.8	80	120			
Toluene	0.96	0.046	0.9276	0	104	80	120			
Ethylbenzene	1.2	0.046	0.9276	0.2072	109	82	121			
Xylenes, Total	4.3	0.093	2.783	1.307	106	80.2	120			
Surr: 4-Bromofluorobenzene	0.77		0.4638		166	70	130			S
Surr: Toluene-d8	0.43		0.4638		92.0	70	130			

Sample ID **1808306-011amsd**	SampType: **MSD4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BSC-1**	Batch ID: **39659**	RunNo: **53327**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756101** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9452	0.008841	96.3	80	120	6.65	20	
Toluene	1.0	0.047	0.9452	0	110	80	120	7.65	20	
Ethylbenzene	1.3	0.047	0.9452	0.2072	115	82	121	6.12	20	
Xylenes, Total	4.5	0.095	2.836	1.307	113	80.2	120	5.80	20	
Surr: 4-Bromofluorobenzene	0.85		0.4726		179	70	130	0	0	S
Surr: Toluene-d8	0.46		0.4726		96.7	70	130	0	0	

Sample ID **lcs-39659**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **39659**	RunNo: **53327**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756110** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	0.58		0.5000		117	70	130			
Surr: Toluene-d8	0.48		0.5000		95.8	70	130			

Sample ID **mb-39659**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **39659**	RunNo: **53327**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756111** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1808306**

13-Aug-18

Client: Animas Environmental Services

Project: DJR CBU Tank Battery

Sample ID **lcs-39624**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **39624**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755078** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	530		500.0		105	70	130			

Sample ID **lcs-39639**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755079** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID **mb-39624**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **39624**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755080** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	560		500.0		112	70	130			

Sample ID **mb-39639**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **39639**	RunNo: **53308**
Prep Date: **8/7/2018**	Analysis Date: **8/8/2018**	SeqNo: **1755081** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	580		500.0		116	70	130			

Sample ID **lcs-39659**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **39659**	RunNo: **53327**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756042** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	70	130			
Surr: BFB	540		500.0		108	70	130			

Sample ID **mb-39659**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **39659**	RunNo: **53327**
Prep Date: **8/8/2018**	Analysis Date: **8/10/2018**	SeqNo: **1756043** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	580		500.0		115	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- PQL Practical Quanitative Limit
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix
- W Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1808306 RcptNo: 1

Received By: Anne Thorne 8/7/2001 7:00:00 AM Anne Thorne

Completed By: Anne Thorne 8/7/2018 7:56:04 AM Anne Thorne

Reviewed By: JO 8/7/18

Labeled by: ENM 8/7/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: ____ (<2 or >12 unless noted)

Adjusted? ____

Checked by: ____

ENM 8/7/18

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			
2	1.3	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 604 W Pinon St.
Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: tknight@animasenvironmental.com

QA/QC Package:
X Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other______
☐ EDD (Type)______

Turn-Around Time:
Standard X Rush Due 8/13/18 NOON

Project Name: DJR CBU Tank Battery

Project #:

Project Manager: T. Knight

Sampler: TK and SJ

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.4-CF-1.0=2.4 / 3.5-CF-1.0=1.3 / 2 Coolers

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1808306	8021 - BTEX	8015M - DRO/GRO/MRO												Air Bubbles (Y or N)
8/6/18	0906	Soil	CSC-1	1-9oz	cool	-001	X	X												
8/6/18	0908	Soil	CSC-2	1-9oz	cool	-002	X	X												
8/6/18	0910	Soil	CSC-3	1-9oz	cool	-003	X	X												
8/6/18	0913	Soil	CSC-4	1-9oz	cool	-004	X	X												
8/6/18	0918	Soil	CSC-5	1-9oz	cool	-005	X	X												
8/6/18	0927	Soil	CSC-6	1-9oz	cool	-006	X	X												
8/6/18	0937	Soil	CSC-7	1-9oz	cool	-007	X	X												
8/6/18	0943	Soil	CSC-8	1-9oz	cool	-008	X	X												
8/6/18	0946	Soil	CSC-9	1-9oz	cool	-009	X	X												
8/6/18	0956	Soil	CSC-10	1-9oz	cool	-010	X	X												
8/6/18	1012	Soil	BSC-1	1-9oz	cool	-011	X	X												

Date	Time	Relinquished by	Received by	Date	Time
8/6/18	1709	Jamie [signature]	Christina Waeta	8/6/18	1709
8/6/18	1826	Christina Waeta	[signature]	08/07/18	0700

Remarks: Due 8/13/18 by Noon, Bill to DJR Operating, ATTN: Amy Archuleta

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Analytical Report

Report Summary

Client: DJR Operating, LLC

Chain Of Custody Number:

Samples Received: 10/12/2018 10:15:00AM

Job Number: 17035-0028

Work Order: P810039

Project Name/Location: DJR CBU Tank Battery

Report Reviewed By: _____ Date: 10/29/18

Walter Hinchman, Laboratory Director

_____ Date: 10/29/18

Tim Cain, Project Manager

Supplement to analytical report generated on: 10/16/18 4:22 pm

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Analytical Laboratory

DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
East Wall (North)	P810039-01A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810039-01B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
East Wall (South)	P810039-02A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810039-02B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
SW Base	P810039-03A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810039-03B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

East Wall (North)
P810039-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.9 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8015D*	
Surrogate: n-Nonane		*117 %*		*50-200*	*1841028*	*10/12/18*	*10/12/18*	*EPA 8015D*	

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

East Wall (South)
P810039-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D	
Diesel Range Organics (C10-C28)	**83.2**	25.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.8 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8015D*	
Surrogate: n-Nonane		*122 %*		*50-200*	*1841028*	*10/12/18*	*10/12/18*	*EPA 8015D*	

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

SW Base
P810039-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/12/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.8 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8015D*	
Surrogate: n-Nonane		*121 %*		*50-200*	*1841028*	*10/12/18*	*10/12/18*	*EPA 8015D*	

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1841027 - Purge and Trap EPA 5030A										
Blank (1841027-BLK1)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	*8130*		"	*8000*		*102*	*50-150*			
LCS (1841027-BS1)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Benzene	5910	100	ug/kg	5000		118	70-130			
Toluene	5960	100	"	5000		119	70-130			
Ethylbenzene	6030	100	"	5000		121	70-130			
p,m-Xylene	12300	200	"	10000		123	70-130			
o-Xylene	5960	100	"	5000		119	70-130			
Total Xylenes	18300	100	"	15000		122	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8250*		"	*8000*		*103*	*50-150*			
Matrix Spike (1841027-MS1)	**Source: P810034-01**			Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Benzene	6270	100	ug/kg	5000	ND	125	54.3-133			
Toluene	6270	100	"	5000	ND	125	61.4-130			
Ethylbenzene	6300	100	"	5000	ND	126	61.4-133			
p,m-Xylene	12800	200	"	10000	ND	128	63.3-131			
o-Xylene	6120	100	"	5000	ND	122	63.3-131			
Total Xylenes	18900	100	"	15000	ND	126	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*6810*		"	*8000*		*85.1*	*50-150*			
Matrix Spike Dup (1841027-MSD1)	**Source: P810034-01**			Prepared: 10/12/18 1 Analyzed: 10/13/18 0						
Benzene	6290	100	ug/kg	5000	ND	126	54.3-133	0.250	20	
Toluene	6220	100	"	5000	ND	124	61.4-130	0.710	20	
Ethylbenzene	6140	100	"	5000	ND	123	61.4-133	2.59	20	
p,m-Xylene	12500	200	"	10000	ND	125	63.3-131	2.86	20	
o-Xylene	5970	100	"	5000	ND	119	63.3-131	2.53	20	
Total Xylenes	18400	100	"	15000	ND	123	63.3-131	2.75	20	
Surrogate: 4-Bromochlorobenzene-PID	*6710*		"	*8000*		*83.9*	*50-150*			

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1841027 - Purge and Trap EPA 5030A										
Blank (1841027-BLK1)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.83*		"	*8.00*		*97.9*	*50-150*			
LCS (1841027-BS2)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Gasoline Range Organics (C6-C10)	51.2	20.0	mg/kg	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.91*		"	*8.00*		*98.9*	*50-150*			
Matrix Spike (1841027-MS2)		**Source: P810034-01**		Prepared: 10/12/18 1 Analyzed: 10/13/18 0						
Gasoline Range Organics (C6-C10)	45.3	20.0	mg/kg	50.0	ND	90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		"	*8.00*		*92.1*	*50-150*			
Matrix Spike Dup (1841027-MSD2)		**Source: P810034-01**		Prepared: 10/12/18 1 Analyzed: 10/13/18 0						
Gasoline Range Organics (C6-C10)	46.5	20.0	mg/kg	50.0	ND	93.0	70-130	2.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.21*		"	*8.00*		*90.1*	*50-150*			

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1841028 - DRO Extraction EPA 3570										
Blank (1841028-BLK1)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	*60.6*		"	*50.0*		*121*	*50-200*			
LCS (1841028-BS1)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Diesel Range Organics (C10-C28)	452	25.0	mg/kg	500		90.4	38-132			
Surrogate: n-Nonane	*59.9*		"	*50.0*		*120*	*50-200*			
Matrix Spike (1841028-MS1)	**Source: P810039-01**			Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500	ND	94.9	38-132			
Surrogate: n-Nonane	*62.7*		"	*50.0*		*125*	*50-200*			
Matrix Spike Dup (1841028-MSD1)	**Source: P810039-01**			Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500	ND	95.2	38-132	0.331	20	
Surrogate: n-Nonane	*60.2*		"	*50.0*		*120*	*50-200*			

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:43

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Client: DJR Operating

Project: DJR CBU Tank Battery

Sampler: C. Lameman

Phone: 505.564.2281

Email(s): tknight@animasenvironmental.com; aarchuleta@djrllc.com

Project Manager: Tami Knight

RUSH? [X] 1d [X] 3d

Due Tuesday By 5:00pm

Page 1 of 1

Lab Use Only	
Lab WO#	P810039
Job Number	17035-0028

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number	Correct Cont/Preserv (e) Y/N
East Wall (North)	10-11-18	14:01	Soil	2-4oz jars/cool	X	X			1	Y
East Wall (South)	10-11-18	14:06	Soil	2-4oz jars/cool	X	X			2	Y
SW Base	10-11-18	14:14	Soil	2-4oz jars/cool	X	X			3	Y

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10-12-18	10:15		10/12/18	1015
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

** Received on Ice Y / N

T1____ T2____ T3____

AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Wet ice in cooler

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

** Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

[ ] Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Bill to DJR Operating Attn: Amy Archuleta

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envirotech-inc.com laboratory@envirotech-inc.com

Client: DJR Operating
Project: DJR CBU Tank Battery
Sampler: C. Lameman
Phone: 505.564.2281
Email(s): tknight@animasenvironmental.com; aarchuleta@djrllc.com
Project Manager: Tami Knight

RUSH? [X] 1d [X] 3d
Due Tuesday By 5:00pm
Page 1 of 1

Lab Use Only
Lab WO# P810039
Job Number 17035-0028

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015/ORO	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Analysis and Method: added 10/26/18 per T. Knight	Lab Only: Lab Number	Correct Cont./Prsrv (s) Y/N
East Wall (North)	10-11-18	14:01	Soil	2-4oz jars/cool	X	X				1	Y
East Wall (South)	10-11-18	14:06	Soil	2-4oz jars/cool	X	X				2	Y
SW Base	10-11-18	14:14	Soil	2-4oz jars/cool	X	X				3	Y

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10-12-18	10:15		10/12/18	1015
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
** Received on Ice Y / N
T1____ T2____ T3____
AVG Temp °C 2.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____ With ice in cooler
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
** Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

[ ] Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Bill to DJR Operating Attn: Amy Archuleta
ORO added per T. Knight -ig

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Three Springs • 65 Mercado Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fr 362-1879
envirotech-inc.com laboratory@envirotech-inc.com

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Analytical Laboratory

Analytical Report

Report Summary

Client: DJR Operating, LLC
Chain Of Custody Number:
Samples Received: 10/12/2018 10:15:00AM
Job Number: 17035-0028
Work Order: P810040
Project Name/Location: DJR CBU Tank Battery

Report Reviewed By: _____ Date: 10/29/18
Walter Hinchman, Laboratory Director

_____ Date: 10/29/18
Tim Cain, Project Manager

Supplement to analytical report generated on: 10/16/18 4:27 pm

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
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Analytical Laboratory

DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NE Base	P810040-01A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810040-01B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
SE Base	P810040-02A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810040-02B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
South Wall (East)	P810040-03A	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.
	P810040-03B	Soil	10/11/18	10/12/18	Glass Jar, 4 oz.

envirotech
Analytical Laboratory

DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37

NE Base
P810040-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.4 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8015D*	
Surrogate: n-Nonane		*120 %*		*50-200*	*1841028*	*10/12/18*	*10/13/18*	*EPA 8015D*	

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Analytical Laboratory

DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37

SE Base
P810040-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.8 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8015D*	
Surrogate: n-Nonane		*122 %*		*50-200*	*1841028*	*10/12/18*	*10/13/18*	*EPA 8015D*	

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37

South Wall (East)
P810040-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1841027	10/12/18	10/12/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1841027	10/12/18	10/12/18	EPA 8015D	
Diesel Range Organics (C10-C28)	**52.4**	25.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1841028	10/12/18	10/13/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.6 %*		*50-150*	*1841027*	*10/12/18*	*10/12/18*	*EPA 8015D*	
Surrogate: n-Nonane		*124 %*		*50-200*	*1841028*	*10/12/18*	*10/13/18*	*EPA 8015D*	

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1841027 - Purge and Trap EPA 5030A										
Blank (1841027-BLK1)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	*8130*		"	*8000*		*102*	*50-150*			
LCS (1841027-BS1)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Benzene	5910	100	ug/kg	5000		118	70-130			
Toluene	5960	100	"	5000		119	70-130			
Ethylbenzene	6030	100	"	5000		121	70-130			
p,m-Xylene	12300	200	"	10000		123	70-130			
o-Xylene	5960	100	"	5000		119	70-130			
Total Xylenes	18300	100	"	15000		122	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8250*		"	*8000*		*103*	*50-150*			
Matrix Spike (1841027-MS1)		**Source: P810034-01**		Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Benzene	6270	100	ug/kg	5000	ND	125	54.3-133			
Toluene	6270	100	"	5000	ND	125	61.4-130			
Ethylbenzene	6300	100	"	5000	ND	126	61.4-133			
p,m-Xylene	12800	200	"	10000	ND	128	63.3-131			
o-Xylene	6120	100	"	5000	ND	122	63.3-131			
Total Xylenes	18900	100	"	15000	ND	126	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*6810*		"	*8000*		*85.1*	*50-150*			
Matrix Spike Dup (1841027-MSD1)		**Source: P810034-01**		Prepared: 10/12/18 1 Analyzed: 10/13/18 0						
Benzene	6290	100	ug/kg	5000	ND	126	54.3-133	0.250	20	
Toluene	6220	100	"	5000	ND	124	61.4-130	0.710	20	
Ethylbenzene	6140	100	"	5000	ND	123	61.4-133	2.59	20	
p,m-Xylene	12500	200	"	10000	ND	125	63.3-131	2.86	20	
o-Xylene	5970	100	"	5000	ND	119	63.3-131	2.53	20	
Total Xylenes	18400	100	"	15000	ND	123	63.3-131	2.75	20	
Surrogate: 4-Bromochlorobenzene-PID	*6710*		"	*8000*		*83.9*	*50-150*			

DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1841027 - Purge and Trap EPA 5030A										
Blank (1841027-BLK1)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.83*		"	*8.00*		*97.9*	*50-150*			
LCS (1841027-BS2)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Gasoline Range Organics (C6-C10)	51.2	20.0	mg/kg	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.91*		"	*8.00*		*98.9*	*50-150*			
Matrix Spike (1841027-MS2)		**Source: P810034-01**		Prepared: 10/12/18 1 Analyzed: 10/13/18 0						
Gasoline Range Organics (C6-C10)	45.3	20.0	mg/kg	50.0	ND	90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		"	*8.00*		*92.1*	*50-150*			
Matrix Spike Dup (1841027-MSD2)		**Source: P810034-01**		Prepared: 10/12/18 1 Analyzed: 10/13/18 0						
Gasoline Range Organics (C6-C10)	46.5	20.0	mg/kg	50.0	ND	93.0	70-130	2.60	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.21*		"	*8.00*		*90.1*	*50-150*			

DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1841028 - DRO Extraction EPA 3570										
Blank (1841028-BLK1)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	*60.6*		"	*50.0*		*121*	*50-200*			
LCS (1841028-BS1)				Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Diesel Range Organics (C10-C28)	452	25.0	mg/kg	500		90.4	38-132			
Surrogate: n-Nonane	*59.9*		"	*50.0*		*120*	*50-200*			
Matrix Spike (1841028-MS1)	**Source: P810039-01**			Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500	ND	94.9	38-132			
Surrogate: n-Nonane	*62.7*		"	*50.0*		*125*	*50-200*			
Matrix Spike Dup (1841028-MSD1)	**Source: P810039-01**			Prepared: 10/12/18 1 Analyzed: 10/12/18 2						
Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500	ND	95.2	38-132	0.331	20	
Surrogate: n-Nonane	*60.2*		"	*50.0*		*120*	*50-200*			

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:37

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Client: DJR operating
Project: DJR CBU Tank Battery
Sampler: C. Lamerman
Phone: 505.564.2281
Email(s): tknight@envirotechanalytical.com; aarchuleta@djrllc.com
Project Manager: Tami Knight

RUSH? [X] 1d [X] 3d
Due Tuesday by 5:00pm

Page 1 of 1

Lab Use Only
Lab WO# P810040
Job Number 17035-0024

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0						Lab Number	Correct Cont/Presv (s) Y/N
NE Base	10-11-18	14:47	Soil	2-4oz jars / cool	X	X								1	Y
SE Base	10-11-18	14:40	Soil	2-4 oz jars / cool	X	X								2	"
South Wall (East)	10-11-18	14:34	Soil	2-4 oz jars / cool	X	X								3	"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-12-18	10:15	[signature]	10/12/18	1015
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
** Received on Ice Y / N
T1____ T2____ T3____
AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____ via ice in cooler
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
** Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

[ ] Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Bill to DJR operating Attn: Amy Archuleta

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fx (505) 632-1865
Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301 | Ph (970) 259-0615 Fx (800) 362-1879
envirotech-inc.com
laboratory@envirotech-inc.com

Client: DJR operating
Project: DJR CBU Tank Battery
Sampler: C. Lamerman
Phone: 505.564.2281
Email(s): tknight@caninasenvironmental.com; aarchuleta@djrllc.com
Project Manager: Tami Knight

RUSH? [X] 1d [X] 3d
Due Tuesday by 5:00 pm
Page 1 of 1

Lab Use Only
Lab WO# P810040
Job Number 12035-0024

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015/DRO added 10/26/18 per T. Knight -ag	BTEX by 8021	TPH by 418.1	Chloride by 300.0	Lab Number	Correct Cont/Prsrv (s) Y/N
NE Base	10-11-18	14:47	Soil	2-4oz jars / cool	X	X			1	Y
SE Base	10-11-18	14:40	Soil	2-4 oz jars / cool	X	X			2	"
South Wall (East)	10-11-18	14:34	Soil	2-4 oz jars / cool	X	X			3	"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-12-18	10:15	[signature]	10/12/18	1015
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
** Received on Ice Y / N
T1____ T2____ T3____
AVG Temp °C 4-0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____ via ice in cooler
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
** Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Bill to DJR operating Attn: Amy Archuleta
DRO added per T. Knight -ag

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Analytical Report

Report Summary

Client: DJR Operating, LLC

Chain Of Custody Number:

Samples Received: 10/23/2018 4:00:00PM

Job Number: 17035-0028

Work Order: P810109

Project Name/Location: DJR CBU Tank Battery

Report Reviewed By: Date: 10/29/18

Walter Hinchman, Laboratory Director

Date: 10/29/18

Tim Cain, Project Manager

Supplement to analytical report generated on: 10/26/18 3:32 pm

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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laboratory@envirotech-inc.com

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NE Base #2	P810109-01A	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
	P810109-01B	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
NE Base #1	P810109-02A	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
	P810109-02B	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
LACT Base #1	P810109-03A	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
	P810109-03B	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
LACT Wall #3	P810109-04A	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.
	P810109-04B	Soil	10/23/18	10/23/18	Glass Jar, 4 oz.

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

NE Base #2
P810109-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1843017*	*10/24/18*	*10/25/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843017	10/24/18	10/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	**370**	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*		*50-150*	*1843017*	*10/24/18*	*10/25/18*	*EPA 8015D*	
Surrogate: n-Nonane		*132 %*		*50-200*	*1843014*	*10/24/18*	*10/25/18*	*EPA 8015D*	

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

NE Base #1
P810109-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1843017*	*10/24/18*	*10/25/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843017	10/24/18	10/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	**193**	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*		*50-150*	*1843017*	*10/24/18*	*10/25/18*	*EPA 8015D*	
Surrogate: n-Nonane		*134 %*		*50-200*	*1843014*	*10/24/18*	*10/25/18*	*EPA 8015D*	

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Analytical Laboratory

DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

LACT Base #1
P810109-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*		*50-150*	*1843017*	*10/24/18*	*10/25/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843017	10/24/18	10/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	**277**	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*103 %*		*50-150*	*1843017*	*10/24/18*	*10/25/18*	*EPA 8015D*	
Surrogate: n-Nonane		*133 %*		*50-200*	*1843014*	*10/24/18*	*10/25/18*	*EPA 8015D*	

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

LACT Wall #3
P810109-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1843017	10/24/18	10/25/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1843017*	*10/24/18*	*10/25/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1843017	10/24/18	10/25/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1843014	10/24/18	10/25/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*		*50-150*	*1843017*	*10/24/18*	*10/25/18*	*EPA 8015D*	
Surrogate: n-Nonane		*131 %*		*50-200*	*1843014*	*10/24/18*	*10/25/18*	*EPA 8015D*	

DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1843017 - Purge and Trap EPA 5030A										
Blank (1843017-BLK1)				Prepared: 10/24/18 1 Analyzed: 10/24/18 2						
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	*8090*		"	*8000*		*101*	*50-150*			
LCS (1843017-BS1)				Prepared: 10/24/18 1 Analyzed: 10/24/18 2						
Benzene	5240	100	ug/kg	5000		105	70-130			
Toluene	5290	100	"	5000		106	70-130			
Ethylbenzene	5350	100	"	5000		107	70-130			
p,m-Xylene	10900	200	"	10000		109	70-130			
o-Xylene	5280	100	"	5000		106	70-130			
Total Xylenes	16200	100	"	15000		108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8190*		"	*8000*		*102*	*50-150*			
Matrix Spike (1843017-MS1)	**Source: P810108-01**			Prepared: 10/24/18 1 Analyzed: 10/24/18 2						
Benzene	5260	100	ug/kg	5000	ND	105	54.3-133			
Toluene	5270	100	"	5000	ND	105	61.4-130			
Ethylbenzene	5330	100	"	5000	ND	107	61.4-133			
p,m-Xylene	10900	200	"	10000	ND	109	63.3-131			
o-Xylene	5230	100	"	5000	ND	105	63.3-131			
Total Xylenes	16100	100	"	15000	ND	107	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*8080*		"	*8000*		*101*	*50-150*			
Matrix Spike Dup (1843017-MSD1)	**Source: P810108-01**			Prepared: 10/24/18 1 Analyzed: 10/24/18 2						
Benzene	5340	100	ug/kg	5000	ND	107	54.3-133	1.51	20	
Toluene	5390	100	"	5000	ND	108	61.4-130	2.16	20	
Ethylbenzene	5460	100	"	5000	ND	109	61.4-133	2.38	20	
p,m-Xylene	11200	200	"	10000	ND	112	63.3-131	2.57	20	
o-Xylene	5370	100	"	5000	ND	107	63.3-131	2.58	20	
Total Xylenes	16500	100	"	15000	ND	110	63.3-131	2.57	20	
Surrogate: 4-Bromochlorobenzene-PID	*8110*		"	*8000*		*101*	*50-150*			

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DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1843014 - DRO Extraction EPA 3570										
Blank (1843014-BLK1)				Prepared: 10/24/18 0 Analyzed: 10/24/18 2						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	*64.0*		"	*50.0*		*128*	*50-200*			
LCS (1843014-BS1)				Prepared: 10/24/18 0 Analyzed: 10/24/18 2						
Diesel Range Organics (C10-C28)	454	25.0	mg/kg	500		90.8	38-132			
Surrogate: n-Nonane	*62.3*		"	*50.0*		*125*	*50-200*			
Matrix Spike (1843014-MS1)		**Source: P810028-01**		Prepared: 10/24/18 0 Analyzed: 10/25/18 0						
Diesel Range Organics (C10-C28)	596	25.0	mg/kg	500	198	79.6	38-132			
Surrogate: n-Nonane	*63.5*		"	*50.0*		*127*	*50-200*			
Matrix Spike Dup (1843014-MSD1)		**Source: P810028-01**		Prepared: 10/24/18 0 Analyzed: 10/25/18 0						
Diesel Range Organics (C10-C28)	575	25.0	mg/kg	500	198	75.5	38-132	3.47	20	
Surrogate: n-Nonane	*63.7*		"	*50.0*		*127*	*50-200*			

DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1843017 - Purge and Trap EPA 5030A										
Blank (1843017-BLK1)				Prepared: 10/24/18 1 Analyzed: 10/24/18 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.92*		"	*8.00*		*99.0*	*50-150*			
LCS (1843017-BS2)				Prepared: 10/24/18 1 Analyzed: 10/24/18 2						
Gasoline Range Organics (C6-C10)	50.9	20.0	mg/kg	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.94*		"	*8.00*		*99.3*	*50-150*			
Matrix Spike (1843017-MS2)		**Source: P810108-01**		Prepared: 10/24/18 1 Analyzed: 10/24/18 2						
Gasoline Range Organics (C6-C10)	51.1	20.0	mg/kg	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.06*		"	*8.00*		*101*	*50-150*			
Matrix Spike Dup (1843017-MSD2)		**Source: P810108-01**		Prepared: 10/24/18 1 Analyzed: 10/25/18 0						
Gasoline Range Organics (C6-C10)	50.8	20.0	mg/kg	50.0	ND	102	70-130	0.525	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.97*		"	*8.00*		*99.6*	*50-150*			

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Analytical Laboratory

DJR Operating, LLC	Project Name:	DJR CBU Tank Battery	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Tami Knight	10/29/18 08:41

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Project Information | Chain of Custody | Page 1 of 1

Page 11 of 12

Client: DJR operating	Report Attention 10/26
Project: DJR CBU Tank Battery	Report due by: End of Day Friday
Project Manager: Tami Knight	Attention: Amy Archuleta
Address: 604 W. Pinon St	Address: 1 Road 3263
City, State, Zip Farmington NM 87401	City, State, Zip Aztec, NM 87410-9521
Phone: 505.564.2281	Phone: aarchuleta@djrllc.com
Email: tknight@animasenvironmental.com	Email: 505.632.3476 ext.201

Lab Use Only: Lab WO# P810109 | Job Number 17035-0028

TAT: 1D | 3D X

EPA Program: RCRA X | CWA | SDWA

State: NM X | CO | UT | AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Remarks
34 9:25	10-23-18	S	2	NE Base #2	1		X	X					
25 9:34	10-23-18	S	2	NE Base #1	2		X	X					
9:43	10-23-18	S	2	LACT Base #1	3		X	X					
9:53	10-23-18	S	2	LACT Wall #3	4		X	X					

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; TPH 418.1

Additional Instructions: Bill to DJR Operating, ATTN: Amy Archuleta v.g ice in cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/23/18	1600		10/23/18	1600
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only: Received on ice: Y / N; T1; T2; T3; AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above ...laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401 | Ph (505) 632-0615 Fx (505) 632-1865
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 | Ph (970) 259-0615 Fx (800) 362-1879
envirotech-inc.com
laboratory@envirotech-inc.com

Project Information | Chain of Custody | Page 1 of 1

Page 12 of 12

Client:	DJR operating
Project:	DJR CBU Tank Battery
Project Manager:	Tami Knight
Address:	604 W. Pinn St
City, State, Zip	Farmington NM 87401
Phone:	505.564.2281
Email:	tknight@animasenvironmental.com

Report Attention 10/26	
Report due by:	End of Day Friday
Attention:	Amy Archuleta
Address:	1 Road 3263
City, State, Zip	Aztec, NM 87410-9521
Phone:	aarchuleta@djrllc.com
Email:	505.632.3476 ext.201

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
P810109	17035-0028		X	X		

State			
NM	CO	UT	AZ
X			

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Remarks
9:25 (34)	10-23-18	S	2	NE Base #2	1	X	X	X					
9:34 (25)	10-23-18	S	2	NE Base #1	2	X	X	X					
9:43	10-23-18	S	2	LACT Base #1	3	X	X	X					
9:53	10-23-18	S	2	LACT Wall #3	4	X	X	X					

Per Amy via TC 10/26/18

Additional Instructions: Bill to DJR Operating, ATTN: Amy Archuleta
ORO added 10/26/18 per T. Knight tm

via ice in cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	10/23/18	1600		10/23/18	1600
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
Three Springs - 65 Mercado Suite 115, Durango, CO 81301 Ph (970) 259-0615 Fx 382-1879
envirotech-inc.com laboratory@envirotech-inc.com

Remedial Excavation
of
Hydrocarbon Impacted Soil

Central Bisti Unit Tank Battery
(C) Sec 5 – T25N – R12W
San Juan County, New Mexico

Prepared for:
DJR Operating, LLC
Aztec, New Mexico

Prepared by:
Blagg Engineering, Inc.
P.O. Box 87
Bloomfield, New Mexico 87413
(505)632-1199

December 5, 2018

REMEDIAL EXCAVATION
OF
HYDROCARBON IMPACTED SOIL
CENTRAL BISTI UNIT TANK BATTERY

TABLE OF CONTENTS

APPENDICES

REMEDIAL EXCAVATION
OF
HYDROCARBON IMPACTED SOIL
CENTRAL BISTI UNIT TANK BATTERY

INTRODUCTION

Blagg Engineering Inc. (BEI) has been retained by DJR Operating, LLC (DJR) to monitor, sample and document environmental remediation of hydrocarbon impacts at the Central Bisti Unit (CBU) Tank Battery, a dismantled produced oil processing facility in rural San Juan County, New Mexico at (C) Sec. 5 – T25N – R12W (Figure 1). The origin of the hydrocarbon release at the site is not known but is likely from standard operating procedures historically in use and authorized by regulatory agencies. Remediation of hydrocarbon impacted soil was conducted via excavation and transportation of soils to a licensed commercial landfarm facility. BEI conducted closure sampling of the remedial excavation on two separate occasions: September 6, 2018 and November 26, 2018. Other consultants were also contracted by DJR to conduct closure sampling on other occasions when BEI was unavailable.

On the September 6, 2018 sampling event there were two separate remedial excavations on-going at the CBU Battery. BEI labeled them as the North Excavation and the South Excavation (Figure 2). Sampling was conducted on the exposed excavation sidewalls and base areas to determine the current status of remediation. The sampling on this date was limited in scope due to prior closure sampling conducted by other consultants that documented closure of specific excavation areas.

The November 26, 2018 sampling event was limited to the North Excavation only. Prior sampling of the South Excavation by others had documented complete closure of that dig and the excavation had been fully backfilled with clean imported soils. Laboratory analytical results from this final sampling of the North Excavation demonstrated complete remediation of the site, as described in this report.

The site closure standard has been determined by the New Mexico Oil Conservation Division as:

- Total Petroleum Hydrocarbons (TPH) via U.S. EPA Method 8015: 100 mg/Kg
- Total Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) via U.S. EPA Method 8021: 50 mg/Kg
- Benzene via U.S. EPA Method 8021: 10 mg/Kg
- Chlorides via U.S. EPA Method 300: 600 mg/Kg

REMEDIATION ACTIVITIES

Site remediation consisted of excavation of impacted sandstone in all directions until site closure standards had been achieved. DJR contracted a third party construction company to conduct this remedial effort. The primary heavy equipment included dozers and trackhoe excavators. This large equipment was necessary due to the substrate media consisting primarily of dense, well cemented sandstone.

On the first sample event conducted by BEI on September 6, 2018 the dimensions of the remedial excavations were measured and a sampling plan was formatted. Both excavations had been

previously sampled and certain areas had demonstrated closure. Only those areas requiring additional closure sampling were included in the sample plan. This consisted of dividing base areas and sidewalls into approximate equal areas. Composite sampling of each area proceeded as standard protocol. There were no discernible stains on any surfaces so composite points were generally equally patterned across the sample areas.

The second sample event conducted by BEI was on November 26, 2018. There was no sampling on the South Excavation since that dig had previously achieved closure via sampling by others. The North Excavation had the same footprint as the September 6, 2018 sample event except that certain base areas (primarily NE Base #1, NE Base #2 and LACT Base #1) had been extended to a deeper depth. This necessitated including additional sidewall sampling at deeper depths adjacent to certain base areas, even though previously sidewall sampling had demonstrated closure at shallower depths.

Composite closure sampling of exposed sidewalls and base areas was conducted by hand using a spade to scrape the surface of the sandstone for collection into a gallon sized sized Ziploc® baggie for field headspace analysis of organic vapors with a calibrated IonScience Tiger model photo-ionization detector (PID) containing a 11.2 eV lamp. Split samples were placed into a 4-ounce laboratory supplied jar with Teflon® lid, labeled and placed on ice in an ice chest for further laboratory testing. The jarred samples were hand delivered to a qualified laboratory for analysis via U.S. EPA Method 8021B (volatile organics limited to benzene, toluene, ethyl benzene and total xylenes), U.S. EPA Method 8015 (gasoline range (GRO), diesel range (DRO) and motor oil range (MRO) organics), and chlorides via U.S. EPA Method 300. A chain-of-custody followed the samples.

DISCUSSION OF ANALYTICAL RESULTS

Northern Excavation

The September 6, 2018 sample event resulted in closure of three (3) base areas (LACT Base #2, LACT Base #3 and LACT Base #4) and two (2) sidewall areas (LACT Wall #1 and LACT Wall #2). Laboratory test data resulted in non-closures at three (3) base areas (NE Base #1, NE Base #2 and LACT Base #1) and one sidewall area (LACT Wall #3). DJR directed their construction contractor to remove additional soils and additional sampling was conducted by another consultant. This sampling resulted in closure at LACT Wall #3, but the base areas required additional remedial excavation. Tables, overhead site figures, photographs of all composite sampling areas and laboratory analytical results for the northern excavation sampled by BEI are included in Appendix A.

Following removal of additional impacted media the closure sampling conducted by BEI on November 26, 2018 returned laboratory analytical results indicating that all remaining zones had achieved site closure. Tables, overhead site figures, photographs of all composite sampling areas and laboratory analytical results for the northern excavation sampled by BEI are included in Appendix B.

Southern Excavation

The September 6, 2018 sampling of the South Excavation returned analytical results indicating closure at three (3) base areas (NE Base, NW Base and SE Base) and three (3) sidewall areas (North Wall-East, West Wall-North, and South Wall-West). However, the laboratory analytical data resulted in non-closure of one (1) base area (SW Base) and two (2) sidewall areas (East Wall-North and East Wall-South). DJR directed the construction contractor to remove additional soils from those failed areas. Subsequent sampling by another consultant resulted in final closure of the South Excavation. Tables, overhead site figures, photographs of all composite sampling areas and laboratory analytical results for the southern excavation sampled by BEI are included in Appendix A.

CONCLUSIONS AND RECOMMENDATIONS

1) Hydrocarbon impacted soil and bedrock at the DJR Operating – Central Bisti Unit Tank Battery, of an historical nature, has been successfully excavated and removed from the site. Excavation sampling and analytical testing has confirmed that all sampling zones within the remedial excavations test below site closure standards. No additional site remediation of impacts is indicated. Regulatory closure of remedial activities is recommended.

CLOSURE AND LIMITATIONS

This report has been prepared for the exclusive use of DJR Operating, LLC as it pertains to hydrocarbon impact remediation at the Central Bisti Unit Tank Battery in San Juan County, New Mexico. The data presented herein is based on visual observations, subsurface soil conditions encountered at sampling locations and on information reported by analytical laboratory testing of soils. This report does not reflect variations which may exist between sampling locations. Additionally, work performed and reported by other professional consultants used on the project cannot be validated by Blagg Engineering, Inc.

I certify that the work performed by Blagg Engineering, Inc. as described in this report was directed by my supervision, and that I am personally familiar with the remedial actions and the contents of this report.

Submitted by:
Blagg Engineering, Inc.

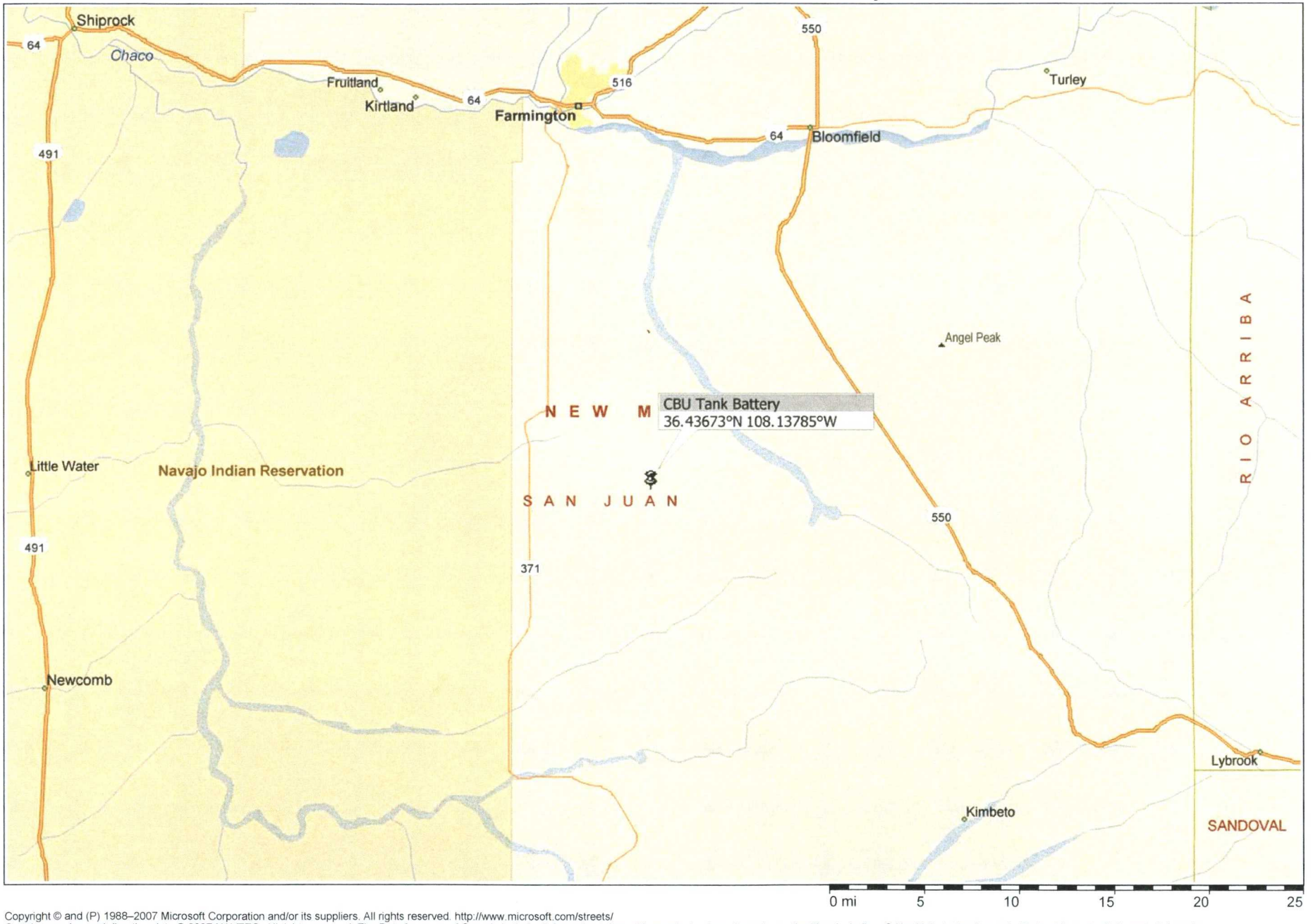
Jeffrey C Blagg, PE

Digitally signed by Jeffrey C Blagg, PE
DN: cn=Jeffrey C Blagg, PE, o, ou, email=jeffcblagg@aol.com, c=US
Date: 2018.12.05 15:56:38 -07'00'

Jeffrey C. Blagg, PE
NMPE 11607

Figure 1

DJR LLC - Central Bisti Unit Tank Battery



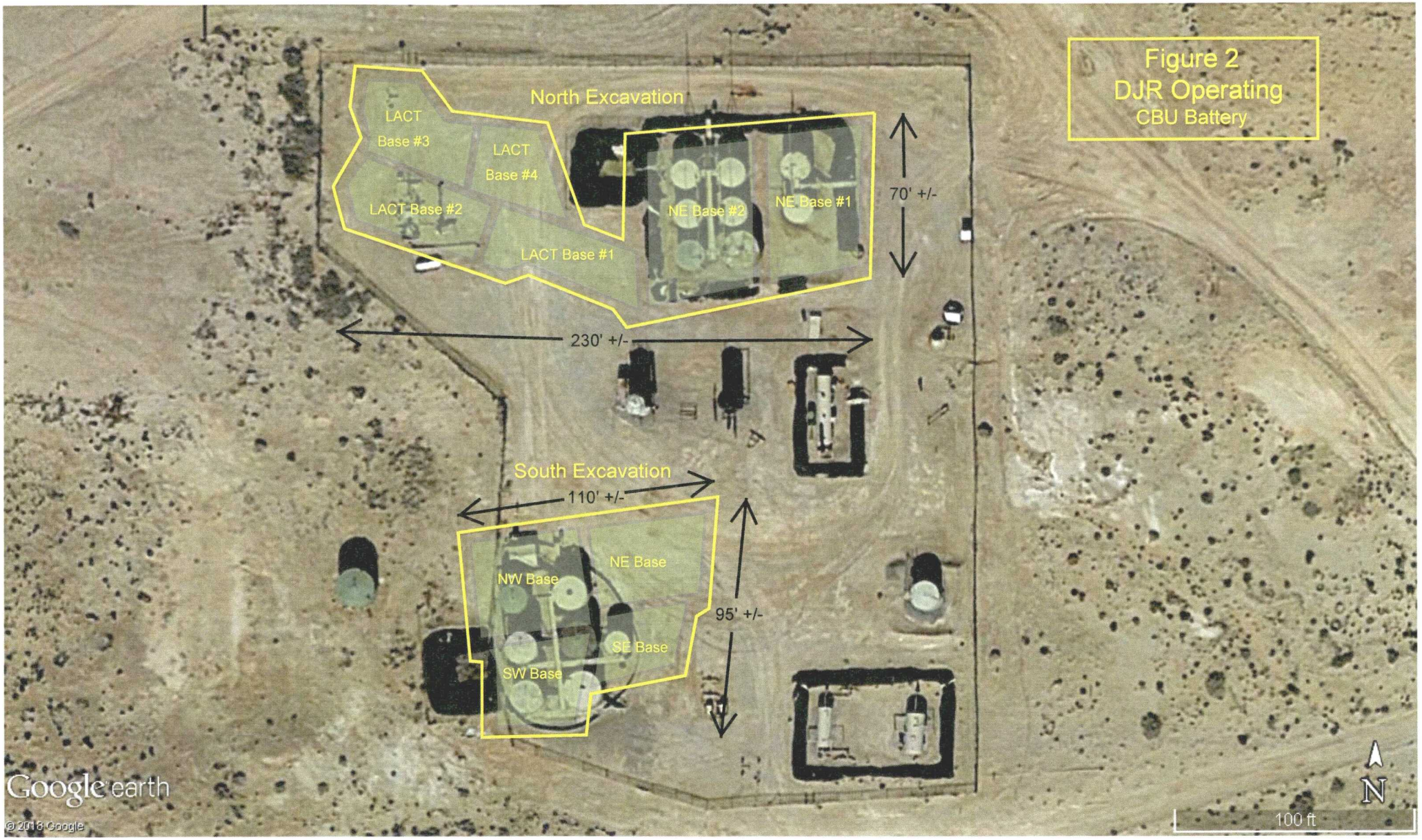
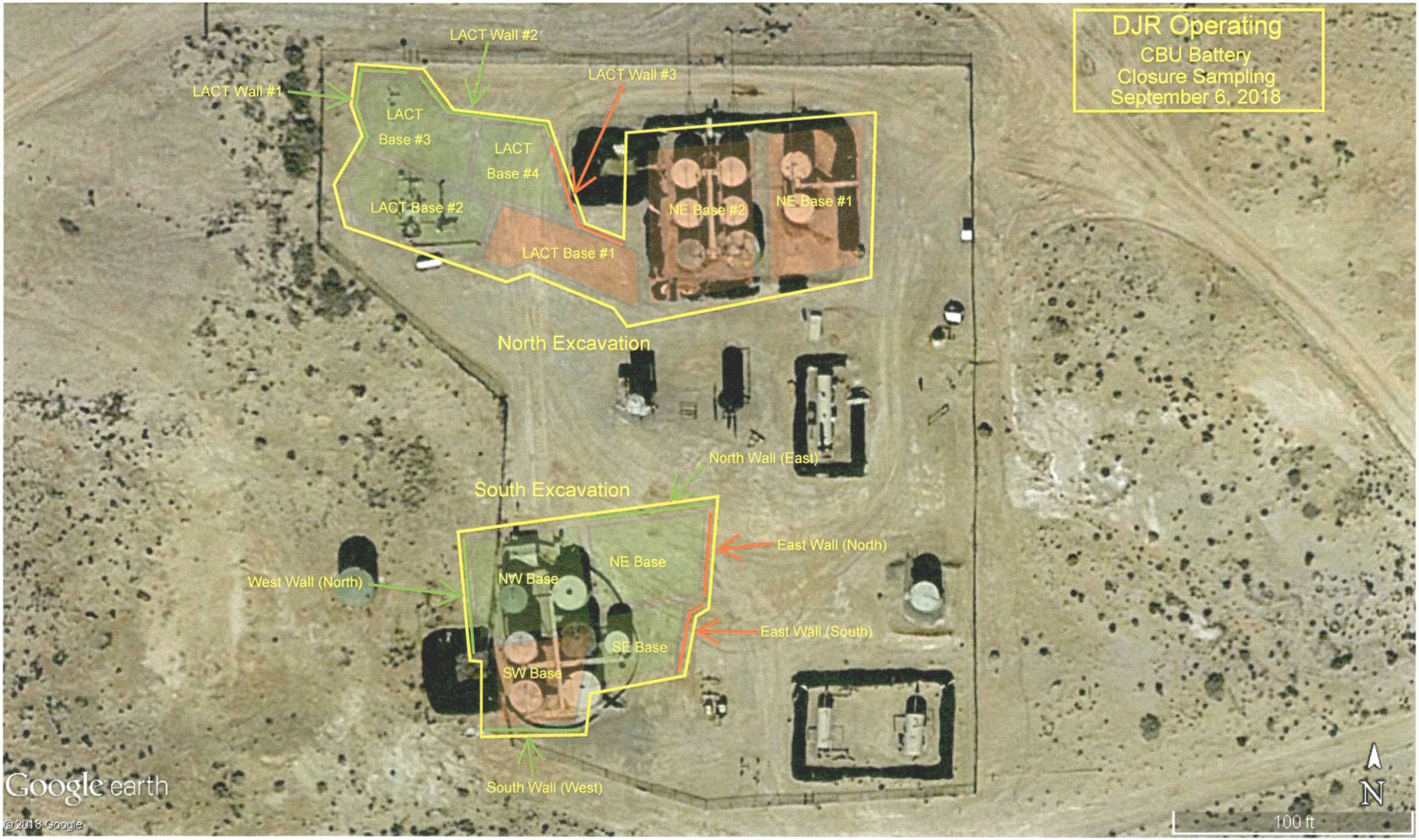


Figure 2
DJR Operating
CBU Battery
North Excavation
LACT Base #3
LACT Base #4
LACT Base #2
LACT Base #1
NE Base #2
NE Base #1
70' +/-
230' +/-
South Excavation
110' +/-
NE Base
NW Base
SE Base
SW Base
95' +/-
Google earth
© 2018 Google
N
100 ft

APPENDIX A
SEPT 6, 2018 SAMPLE EVENT


DJR Operating
CBU Battery
Closure Sampling
September 6, 2018
LACT Wall #1
LACT Wall #2
LACT Wall #3
LACT Base #3
LACT Base #4
LACT Base #2
LACT Base #1
NE Base #2
NE Base #1
North Excavation
North Wall (East)
South Excavation
East Wall (North)
West Wall (North)
NE Base
NW Base
East Wall (South)
SE Base
SW Base
South Wall (West)
Google earth
© 2018 Google
N
100 ft

DJR Operating
CBU Battery
NE/4 NW/4 Sec 5 – T25N – R12W
San Juan County, New Mexico
Excavation Closure Laboratory Analytical Results

North Excavation
September 6, 2018

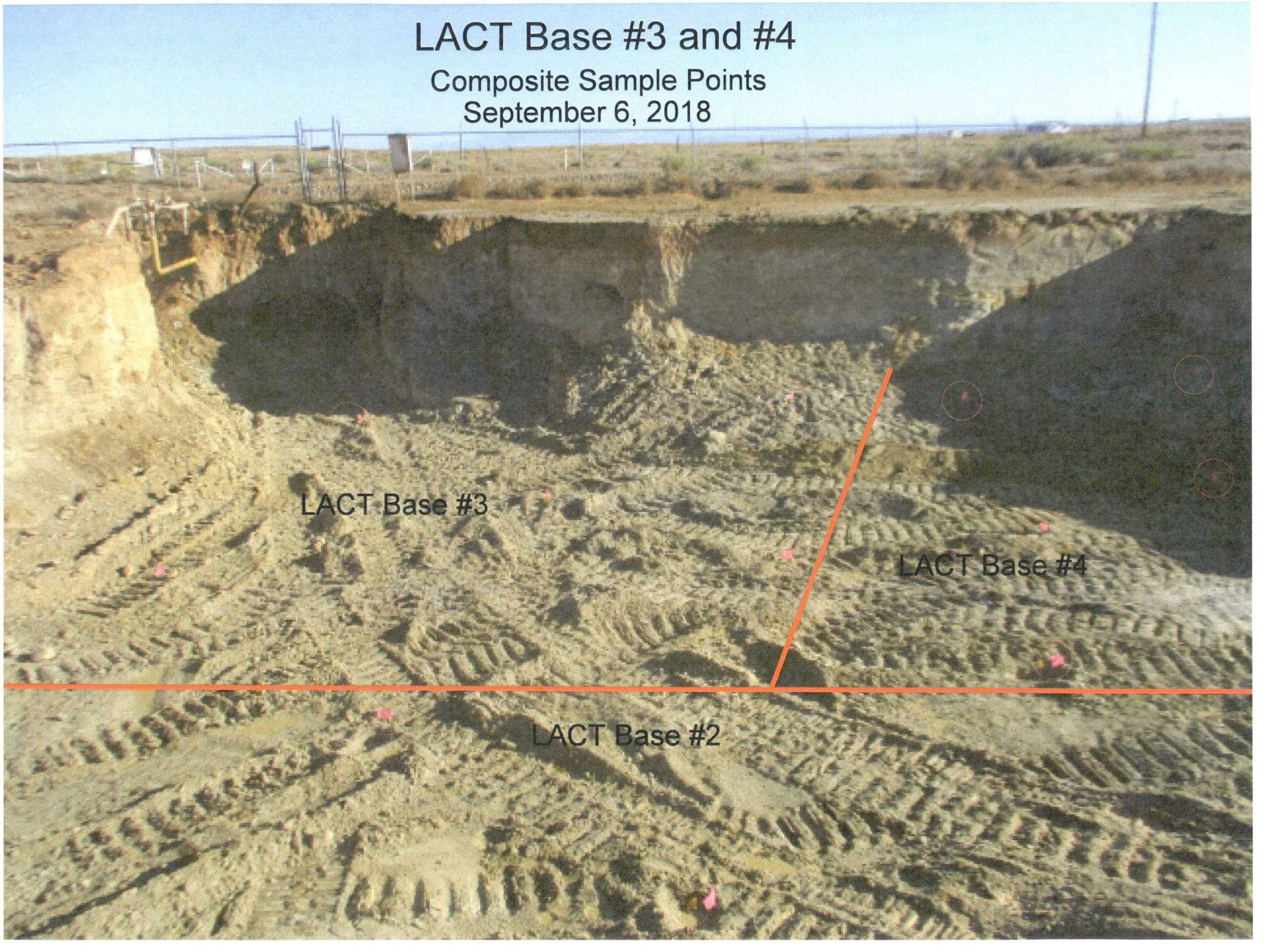
Sample ID (5-pt Comps)	Sample Depth (Feet)	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
NE Base #1 (East)	8.5'	3.2	ND + 96 + 94 = 190	0.01	ND	ND
NE Base #2 (West)	9'	182	ND + 290 + 180 = 470	0.05	ND	ND
LACT Base #1	12'	18.4	ND + 85 + 53 = 138	ND	ND	ND
LACT Base #2	12'	7.2	ND + 46 + ND = 46	ND	ND	ND
LACT Base #3	12'	9.1	ND + 34 + ND = 34	ND	ND	ND
LACT Base #4	12'	4.1	ND + 7 + ND = 7	ND	ND	ND
LACT Wall #1	2' – 9'	3.0	ND + 2 + ND = 2	ND	ND	43
LACT Wall #2	3' – 10'	2.8	ND + 34 + 63 = 97	ND	ND	68
LACT Wall #3	2' – 9'	2.0	ND + 60 + 98 = 158	ND	ND	ND


NE Base #1
Composite Sample Points
September 6, 2018

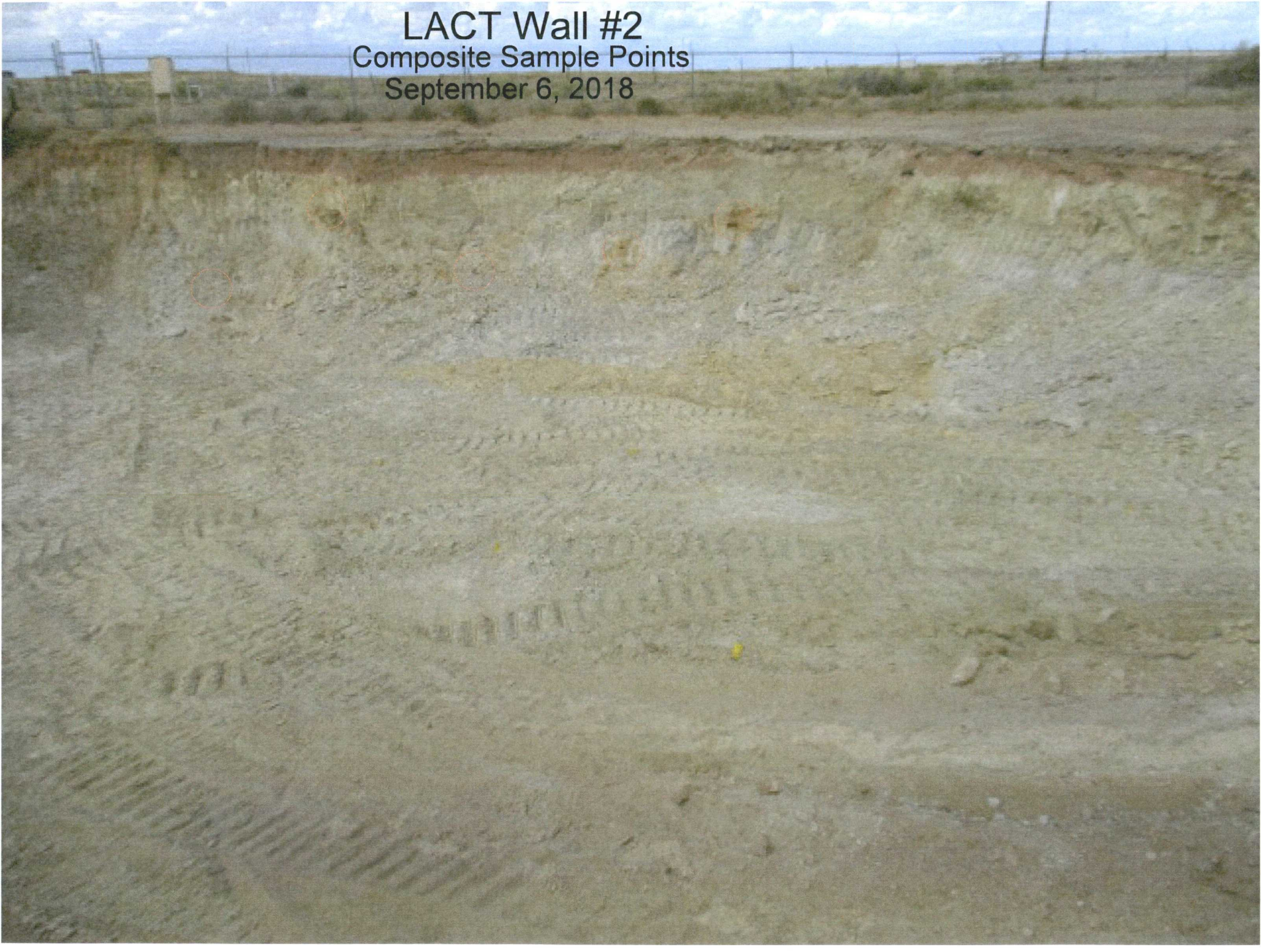

NE Base #2
Composite Sample Points
September 6, 2018


LACT Base #1
Composite Sample Points
September 6, 2018


LACT Base #2
Composite Sample Points
September 6, 2018


LACT Base #3 and #4
Composite Sample Points
September 6, 2018
LACT Base #3
LACT Base #4
LACT Base #2


LACT Wall #1
Composite Sample Points
September 6, 2018

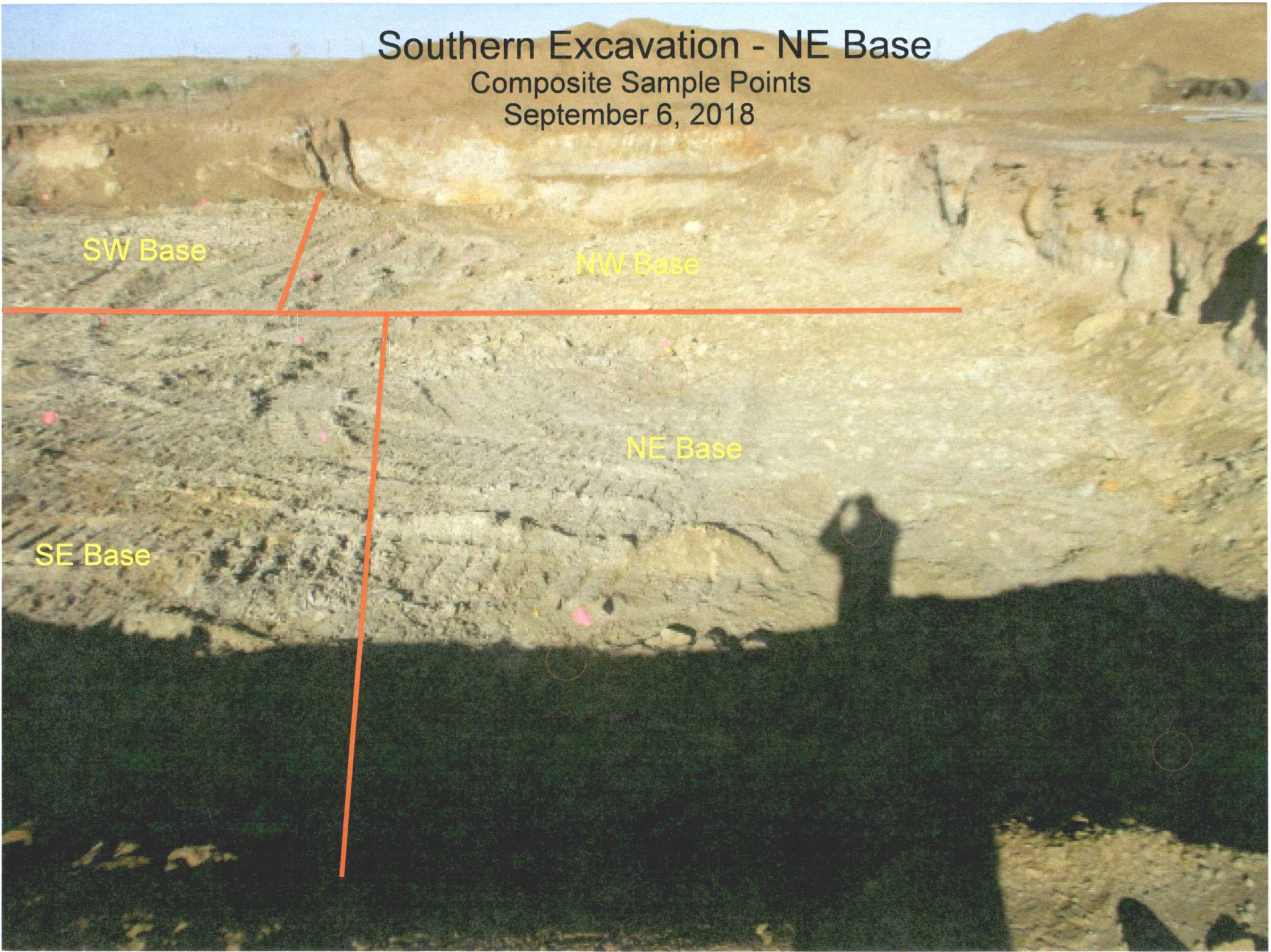

LACT Wall #2
Composite Sample Points
September 6, 2018

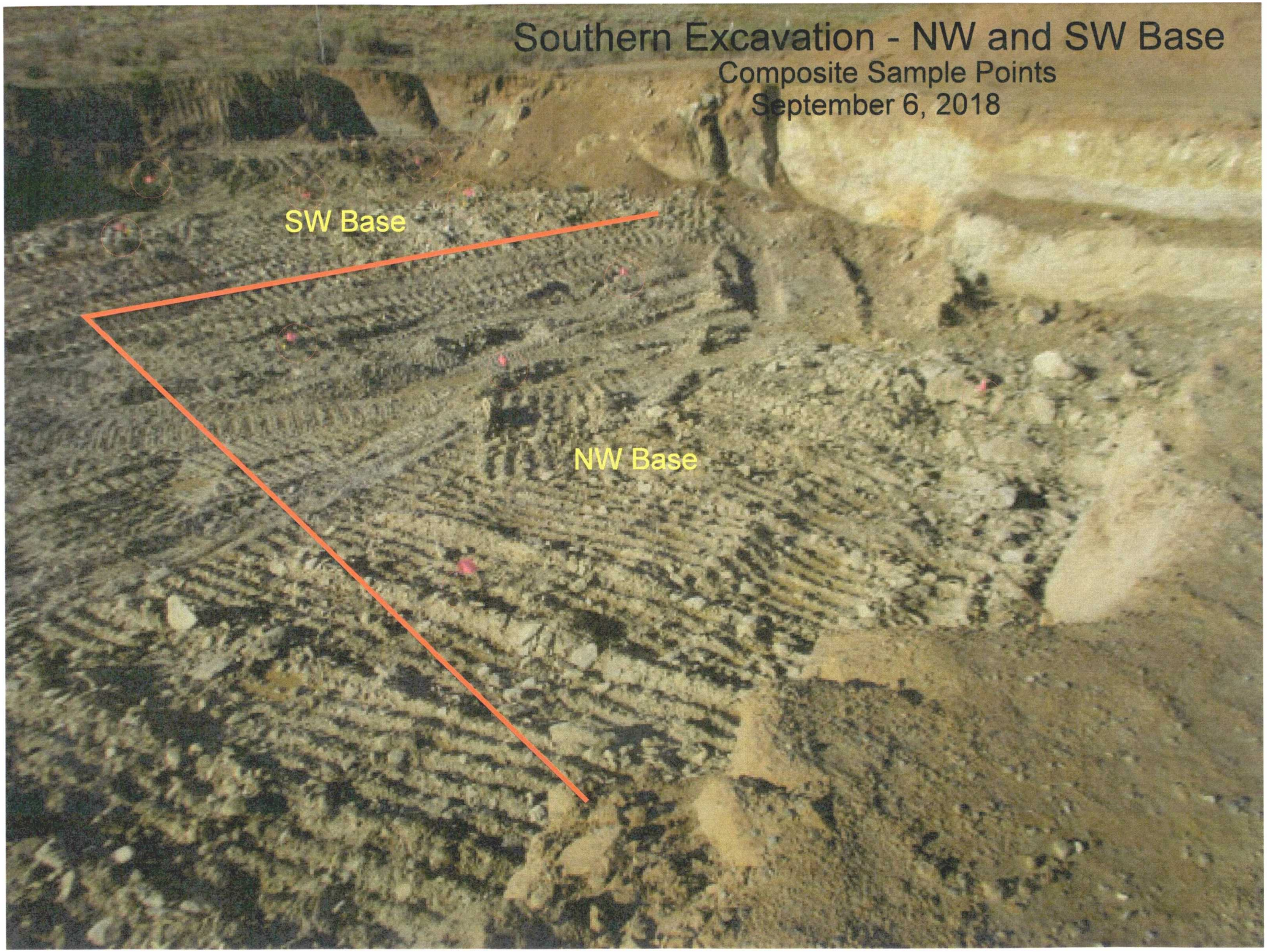

LACT Wall #3
Composite Sample Points
September 6, 2018

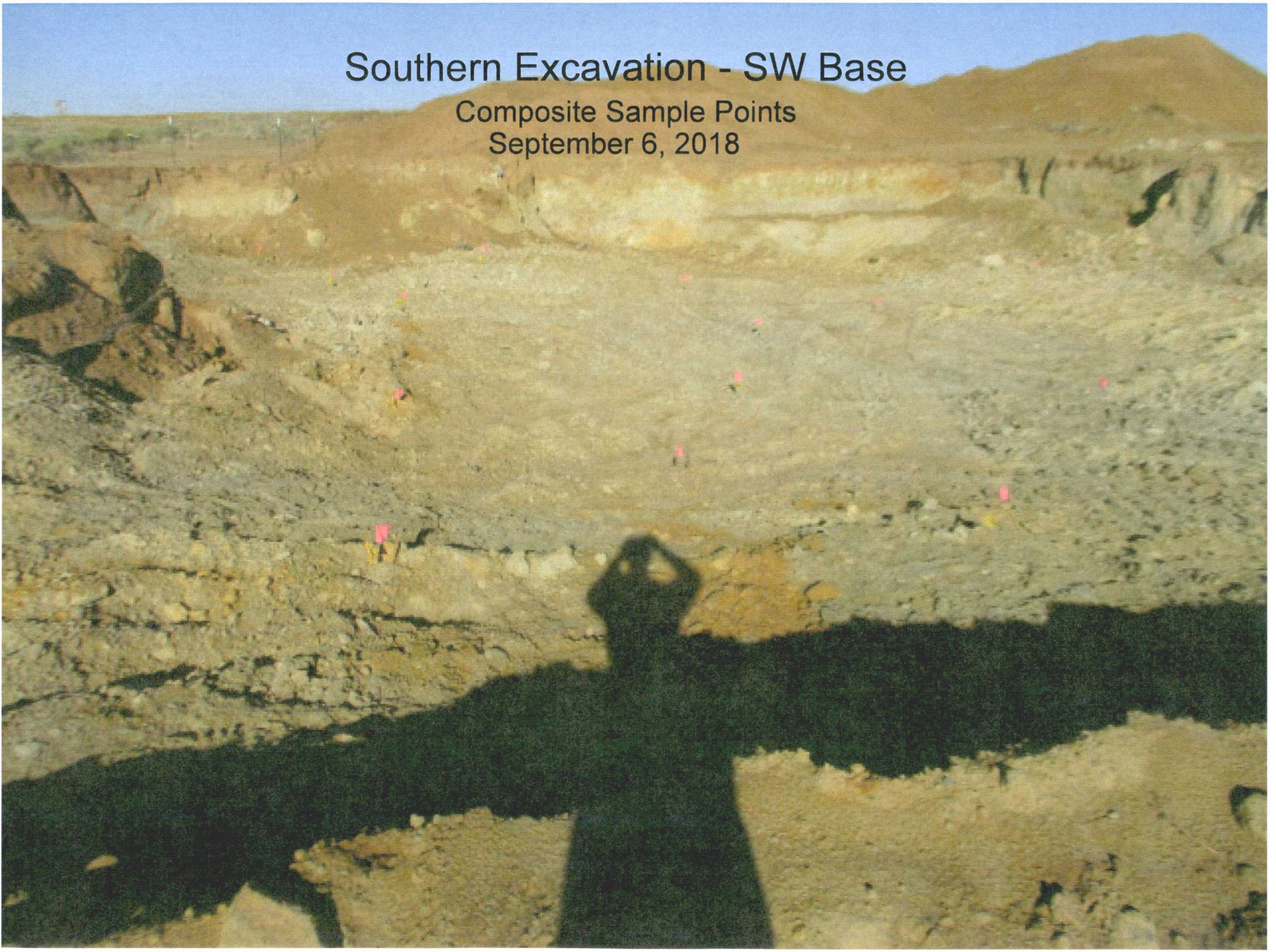
DJR Operating
CBU Battery
NE/4 NW/4 Sec 5 – T25N – R12W
San Juan County, New Mexico
Excavation Closure Laboratory Analytical Results

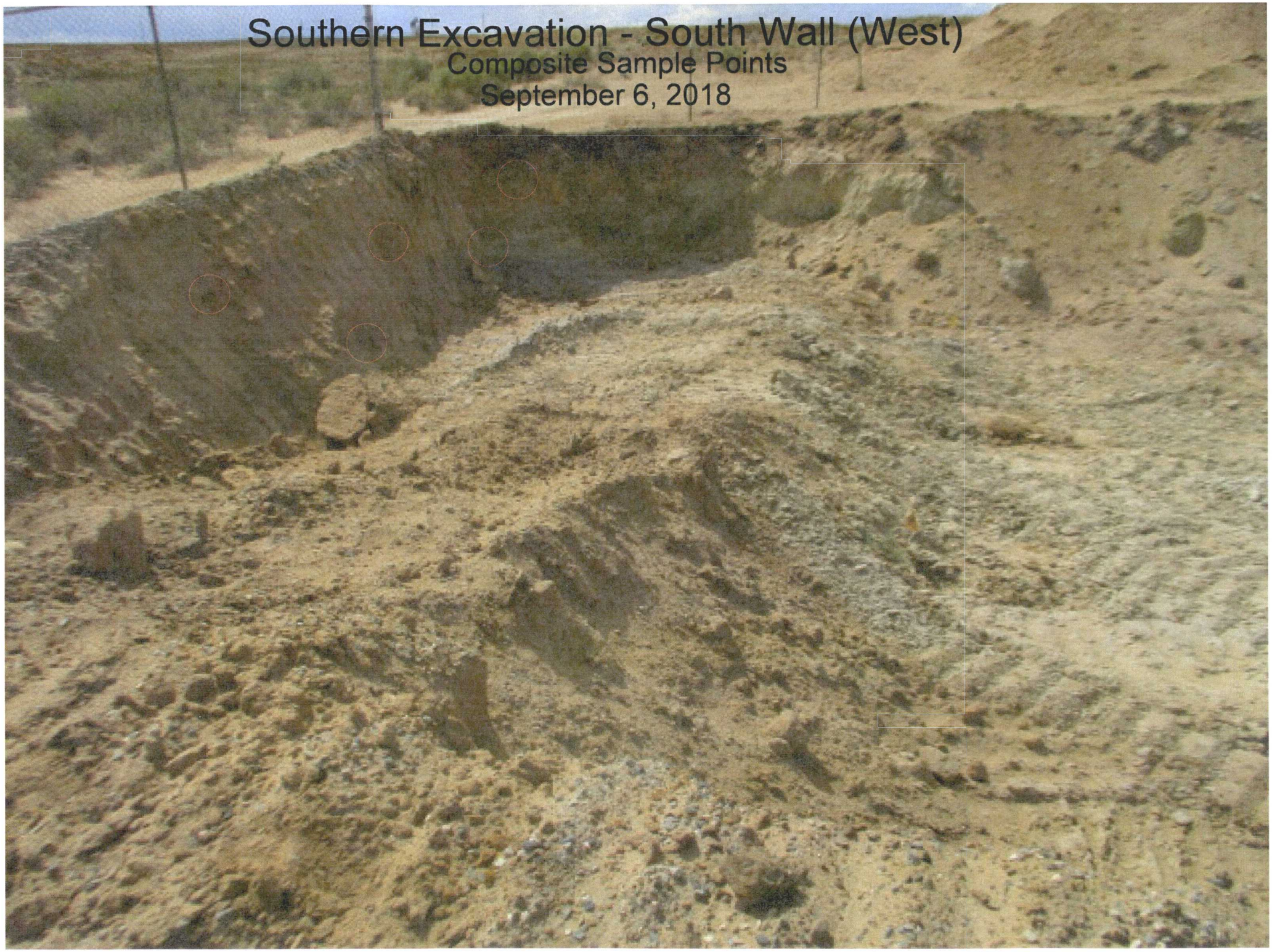
South Excavation
September 6, 2018

Sample ID (5-pt Comps)	Sample Depth (Feet)	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
NE Base	8'	1.2	ND + ND + ND = ND	ND	ND	290
NW Base	10.5'	2.3	ND + 2.3 + ND = 2.3	ND	ND	330
SW Base	8.5'	1.6	ND + 61 + 92 = 153	ND	ND	190
SE Base	5'	2.3	ND + ND + ND = ND	ND	ND	190
South Wall (West)	2' – 6'	1.4	ND + 3 + ND = 3	ND	ND	590
West Wall (North)	2' – 8'	1.4	ND + 2.2 + ND = 2.2	ND	ND	130
North Wall (East)	2' – 7'	1.2	ND + 11 + ND = 11	ND	ND	300
East Wall (North)	2' – 7'	1.7	ND + 100 + 240 = 340	ND	ND	240
East Wall (South)	2' – 4'	0.9	ND + 120 + 210 = 330	ND	ND	650


Southern Excavation - NE Base
Composite Sample Points
September 6, 2018
SW Base
NW Base
NE Base
SE Base


Southern Excavation - NW and SW Base
Composite Sample Points
September 6, 2018
SW Base
NW Base


Southern Excavation - SW Base
Composite Sample Points
September 6, 2018


Southern Excavation - South Wall (West)
Composite Sample Points
September 6, 2018


Southern Excavation - West Wall (North)
Composite Sample Points
September 6, 2018


Southern Excavation - North Wall (East)
Composite Sample Points
September 6, 2018


Southern Excavation - East Wall (North & South)
Composite Sample Points
September 6, 2018
East Wall (South)
East Wall (North)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

18059-0001

Form C-138
Revised 08/01/11

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
DJR Operating, LLC **1 Road 3263, Aztec NM 87410**

2. Originating Site:
CBU Tank Battery

3. Location of Material (Street Address, City, State or ULSTR):
Sec. 5-T25N-R12W San Juan County, NM July 2018

4. Source and Description of Waste:
Contaminated soil from tank battery and production equipment failures containing iron sulfides and hydrocarbons.

Estimated Volume 1000 yds yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 7120 (yd^3) / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Cindy Sikes, representative or authorized agent for DJR Operating, LLC do hereby
Generator Signature

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☒ ***Per Load***

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Cindy Sikes, representative for DJR Operating, LLC authorize Envirotech to
Generator Signature

complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech do hereby certify that
Representative/Agent Signature

Representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter: T&M Dirtworks, Adobe

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: #: **Envirotech Inc. Soil Remediation Facility** **Permit # NM-01-0011**

Address of Facility: **Hilltop, New Mexico**

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Envir. Manager DATE: 7/3/18

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

18059-0001

Form C-138
Revised 08/01/11

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
DJR Operating, LLC **1 Road 3263, Aztec NM 87410**

2. Originating Site:
CBU Tank Battery

3. Location of Material (Street Address, City, State or ULSTR):
Sec. 5-T25N-R12W San Juan County, NM Aug. 2018

4. Source and Description of Waste:
Contaminated soil from tank battery and production equipment failures containing iron sulfides and hydrocarbons.

Estimated Volume 1000 yds yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 3324 yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Cindy Sikes, representative or authorized agent for DJR Operating, LLC do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☒ ***Per Load***

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Cindy Sikes, representative for DJR Operating, LLC authorize Envirotech to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech do hereby certify that
Representative/Agent Signature
Representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter: T&M Dirtworks, Adobe

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: #: **Envirotech Inc. Soil Remediation Facility** **Permit # NM-01-0011**

Address of Facility: **Hilltop, New Mexico**

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro. Manager DATE: 8/3/18

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

18059-0001 Form C-138
Revised 08/01/11

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
DJR Operating, LLC **1 Road 3263, Aztec NM 87410**

2. Originating Site:
CBU Tank Battery

3. Location of Material (Street Address, City, State or ULSTR):
Sec. 5-T25N-R12W San Juan County, NM Sep. 2018

4. Source and Description of Waste:
Contaminated soil from tank battery and production equipment failures containing iron sulfides and hydrocarbons.

Estimated Volume 1000 yds yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 1280 (yd^3) / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Mike Sikes, representative or authorized agent for DJR Operating, LLC do hereby
Generator Signature

certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☒ ***Per Load***

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Mike Sikes, representative for DJR Operating, LLC authorize Envirotech to
Generator Signature

complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech do hereby certify that
Representative/Agent Signature

Representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter: T&M Dirtworks, Adobe

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: #: **Envirotech Inc. Soil Remediation Facility** **Permit # NM-01-0011**

Address of Facility: **Hilltop, New Mexico**

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 9/4/18

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

18259-0001

Form C-138
Revised 08/01/11

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
DJR Operating, LLC **1 Road 3263, Aztec NM 87410**

2. Originating Site:
CBU Tank Battery

3. Location of Material (Street Address, City, State or ULSTR):
Sec. 5-T25N-R12W San Juan County, NM Oct. 2018

4. Source and Description of Waste:
Contaminated soil from tank battery and production equipment failures containing iron sulfides and hydrocarbons.

Estimated Volume 1000 yds yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 1753 yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Cindy Sikes, representative or authorized agent for DJR Operating, LLC do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☒ ***Per Load***

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Cindy Sikes, representative for DJR Operating, LLC authorize Envirotech to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, ~~Enc~~ Greg Crabtree, representative for Envirotech do hereby certify that
Representative/Agent Signature
Representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter: T&M Dirtworks, Adobe

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: #: **Envirotech Inc. Soil Remediation Facility** **Permit # NM-01-0011**

Address of Facility: **Hilltop, New Mexico**

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Envir. Manager DATE: 10/5/18

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

18059-0001

Form C-138
Revised 08/01/11

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
DJR Operating, LLC **1 Road 3263, Aztec NM 87410**

2. Originating Site:
CBU Tank Battery

3. Location of Material (Street Address, City, State or ULSTR):
Sec. 5-T25N-R12W San Juan County, NM Nov. 2018

4. Source and Description of Waste:
Contaminated soil from tank battery and production equipment failures containing iron sulfides and hydrocarbons.

Estimated Volume 1000 yds yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 920 (yd³) bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Cindy Sikes, representative or authorized agent for DJR Operating, LLC do hereby
Generator Signature
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. ***Operator Use Only: Waste Acceptance Frequency*** ☐ ***Monthly*** ☐ ***Weekly*** ☒ ***Per Load***

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Cindy Sikes, representative for DJR Operating, LLC authorize Envirotech to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, Greg Crabtree, representative for Envirotech do hereby certify that
Representative/Agent Signature
Representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. Transporter: T&M Dirtworks, Leroy Miller, Rosenbaum

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: #: **Envirotech Inc. Soil Remediation Facility** **Permit # NM-01-0011**

Address of Facility: **Hilltop, New Mexico**

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro. Manager DATE: 11/8/18

SIGNATURE: _____ TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 24, 2018

Amy Archuleta
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 632-1199
FAX (505) 632-3903

RE: CBU Battery North Dig OrderNo.: 1809374

Dear Amy Archuleta:

Hall Environmental Analysis Laboratory received 9 sample(s) on 9/7/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery North Dig
Lab ID: 1809374-001 **Matrix:** SOIL

Client Sample ID: NE Base #1 (East)
Collection Date: 9/6/2018 11:19:00 AM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	ND	30		mg/Kg	20	9/22/2018 4:51:50 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	96	9.7		mg/Kg	1	9/12/2018 2:57:22 PM	40268
Motor Oil Range Organics (MRO)	94	49		mg/Kg	1	9/12/2018 2:57:22 PM	40268
Surr: DNOP	99.9	50.6-138		%Rec	1	9/12/2018 2:57:22 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/9/2018 10:14:14 PM	40223
Surr: BFB	71.4	15-316		%Rec	1	9/9/2018 10:14:14 PM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/9/2018 10:14:14 PM	40223
Toluene	ND	0.046		mg/Kg	1	9/9/2018 10:14:14 PM	40223
Ethylbenzene	ND	0.046		mg/Kg	1	9/9/2018 10:14:14 PM	40223
Xylenes, Total	ND	0.092		mg/Kg	1	9/9/2018 10:14:14 PM	40223
Surr: 4-Bromofluorobenzene	68.0	80-120	S	%Rec	1	9/9/2018 10:14:14 PM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery North Dig
Lab ID: 1809374-002 **Matrix:** SOIL

Client Sample ID: NE Base #2 (West)
Collection Date: 9/6/2018 11:35:00 AM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	ND	30		mg/Kg	20	9/22/2018 5:04:15 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	290	9.7		mg/Kg	1	9/12/2018 4:11:21 PM	40268
Motor Oil Range Organics (MRO)	160	49		mg/Kg	1	9/12/2018 4:11:21 PM	40268
Surr: DNOP	108	50.6-138		%Rec	1	9/12/2018 4:11:21 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/9/2018 10:37:25 PM	40223
Surr: BFB	101	15-316		%Rec	1	9/9/2018 10:37:25 PM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/9/2018 10:37:25 PM	40223
Toluene	ND	0.046		mg/Kg	1	9/9/2018 10:37:25 PM	40223
Ethylbenzene	ND	0.046		mg/Kg	1	9/9/2018 10:37:25 PM	40223
Xylenes, Total	ND	0.093		mg/Kg	1	9/9/2018 10:37:25 PM	40223
Surr: 4-Bromofluorobenzene	71.6	80-120	S	%Rec	1	9/9/2018 10:37:25 PM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery North Dig
Lab ID: 1809374-003 **Matrix:** SOIL

Client Sample ID: LACT Base #1
Collection Date: 9/6/2018 11:48:00 AM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	ND	30		mg/Kg	20	9/22/2018 5:41:29 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	85	9.6		mg/Kg	1	9/12/2018 4:36:04 PM	40268
Motor Oil Range Organics (MRO)	53	48		mg/Kg	1	9/12/2018 4:36:04 PM	40268
Surr: DNOP	101	50.6-138		%Rec	1	9/12/2018 4:36:04 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/9/2018 11:00:36 PM	40223
Surr: BFB	75.9	15-316		%Rec	1	9/9/2018 11:00:36 PM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	9/9/2018 11:00:36 PM	40223
Toluene	ND	0.049		mg/Kg	1	9/9/2018 11:00:36 PM	40223
Ethylbenzene	ND	0.049		mg/Kg	1	9/9/2018 11:00:36 PM	40223
Xylenes, Total	ND	0.099		mg/Kg	1	9/9/2018 11:00:36 PM	40223
Surr: 4-Bromofluorobenzene	69.7	80-120	S	%Rec	1	9/9/2018 11:00:36 PM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery North Dig
Lab ID: 1809374-004 **Matrix:** SOIL

Client Sample ID: LACT Base #2
Collection Date: 9/6/2018 11:55:00 AM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	ND	30		mg/Kg	20	9/22/2018 6:18:43 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	46	9.9		mg/Kg	1	9/12/2018 5:00:54 PM	40268
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/12/2018 5:00:54 PM	40268
Surr: DNOP	98.3	50.6-138		%Rec	1	9/12/2018 5:00:54 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/10/2018 12:33:47 AM	40223
Surr: BFB	78.3	15-316		%Rec	1	9/10/2018 12:33:47 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	9/10/2018 12:33:47 AM	40223
Toluene	ND	0.050		mg/Kg	1	9/10/2018 12:33:47 AM	40223
Ethylbenzene	ND	0.050		mg/Kg	1	9/10/2018 12:33:47 AM	40223
Xylenes, Total	ND	0.10		mg/Kg	1	9/10/2018 12:33:47 AM	40223
Surr: 4-Bromofluorobenzene	69.7	80-120	S	%Rec	1	9/10/2018 12:33:47 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery North Dig
Lab ID: 1809374-005 **Matrix:** SOIL

Client Sample ID: LACT Base #3
Collection Date: 9/6/2018 12:07:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	ND	30		mg/Kg	20	9/22/2018 6:31:07 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	34	9.9		mg/Kg	1	9/12/2018 5:25:35 PM	40268
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/12/2018 5:25:35 PM	40268
Surr: DNOP	104	50.6-138		%Rec	1	9/12/2018 5:25:35 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/10/2018 12:57:05 AM	40223
Surr: BFB	76.4	15-316		%Rec	1	9/10/2018 12:57:05 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/10/2018 12:57:05 AM	40223
Toluene	ND	0.047		mg/Kg	1	9/10/2018 12:57:05 AM	40223
Ethylbenzene	ND	0.047		mg/Kg	1	9/10/2018 12:57:05 AM	40223
Xylenes, Total	ND	0.095		mg/Kg	1	9/10/2018 12:57:05 AM	40223
Surr: 4-Bromofluorobenzene	70.5	80-120	S	%Rec	1	9/10/2018 12:57:05 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery North Dig
Lab ID: 1809374-006 **Matrix:** SOIL

Client Sample ID: LACT Base #4
Collection Date: 9/6/2018 12:13:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	ND	30		mg/Kg	20	9/22/2018 6:43:31 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/12/2018 5:50:17 PM	40268
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/12/2018 5:50:17 PM	40268
Surr: DNOP	98.8	50.6-138		%Rec	1	9/12/2018 5:50:17 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/10/2018 1:20:17 AM	40223
Surr: BFB	76.3	15-316		%Rec	1	9/10/2018 1:20:17 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/10/2018 1:20:17 AM	40223
Toluene	ND	0.048		mg/Kg	1	9/10/2018 1:20:17 AM	40223
Ethylbenzene	ND	0.048		mg/Kg	1	9/10/2018 1:20:17 AM	40223
Xylenes, Total	ND	0.096		mg/Kg	1	9/10/2018 1:20:17 AM	40223
Surr: 4-Bromofluorobenzene	71.0	80-120	S	%Rec	1	9/10/2018 1:20:17 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery North Dig
Lab ID: 1809374-007 **Matrix:** SOIL

Client Sample ID: LACT Wall #1
Collection Date: 9/6/2018 12:21:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	43	30		mg/Kg	20	9/22/2018 6:55:56 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/12/2018 6:14:54 PM	40268
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/12/2018 6:14:54 PM	40268
Surr: DNOP	92.3	50.6-138		%Rec	1	9/12/2018 6:14:54 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/10/2018 1:43:28 AM	40223
Surr: BFB	75.6	15-316		%Rec	1	9/10/2018 1:43:28 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/10/2018 1:43:28 AM	40223
Toluene	ND	0.047		mg/Kg	1	9/10/2018 1:43:28 AM	40223
Ethylbenzene	ND	0.047		mg/Kg	1	9/10/2018 1:43:28 AM	40223
Xylenes, Total	ND	0.094		mg/Kg	1	9/10/2018 1:43:28 AM	40223
Surr: 4-Bromofluorobenzene	70.8	80-120	S	%Rec	1	9/10/2018 1:43:28 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery North Dig
Lab ID: 1809374-008 **Matrix:** SOIL

Client Sample ID: LACT Wall #2
Collection Date: 9/6/2018 12:26:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	68	30		mg/Kg	20	9/22/2018 7:08:22 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	34	9.9		mg/Kg	1	9/12/2018 6:39:33 PM	40268
Motor Oil Range Organics (MRO)	63	50		mg/Kg	1	9/12/2018 6:39:33 PM	40268
Surr: DNOP	101	50.6-138		%Rec	1	9/12/2018 6:39:33 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2018 2:06:41 AM	40223
Surr: BFB	76.2	15-316		%Rec	1	9/10/2018 2:06:41 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	9/10/2018 2:06:41 AM	40223
Toluene	ND	0.049		mg/Kg	1	9/10/2018 2:06:41 AM	40223
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2018 2:06:41 AM	40223
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2018 2:06:41 AM	40223
Surr: 4-Bromofluorobenzene	70.0	80-120	S	%Rec	1	9/10/2018 2:06:41 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery North Dig
Lab ID: 1809374-009 **Matrix:** SOIL

Client Sample ID: LACT Wall #3
Collection Date: 9/6/2018 12:34:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	ND	30		mg/Kg	20	9/22/2018 7:20:47 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	60	10		mg/Kg	1	9/13/2018 11:55:23 AM	40268
Motor Oil Range Organics (MRO)	98	50		mg/Kg	1	9/13/2018 11:55:23 AM	40268
Surr: DNOP	112	50.6-138		%Rec	1	9/13/2018 11:55:23 AM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/10/2018 2:29:54 AM	40223
Surr: BFB	75.1	15-316		%Rec	1	9/10/2018 2:29:54 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/10/2018 2:29:54 AM	40223
Toluene	ND	0.046		mg/Kg	1	9/10/2018 2:29:54 AM	40223
Ethylbenzene	ND	0.046		mg/Kg	1	9/10/2018 2:29:54 AM	40223
Xylenes, Total	ND	0.093		mg/Kg	1	9/10/2018 2:29:54 AM	40223
Surr: 4-Bromofluorobenzene	70.3	80-120	S	%Rec	1	9/10/2018 2:29:54 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809374**

24-Sep-18

Client: Blagg Engineering

Project: CBU Battery North Dig

Sample ID	**MB-40513**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**40513**		RunNo:	**54344**				
Prep Date:	**9/21/2018**	Analysis Date:	**9/22/2018**		SeqNo:	**1798820**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-40513**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**40513**		RunNo:	**54344**				
Prep Date:	**9/21/2018**	Analysis Date:	**9/22/2018**		SeqNo:	**1798821**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809374**

24-Sep-18

Client: Blagg Engineering
Project: CBU Battery North Dig

Sample ID **1809374-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **NE Base #1 (East)**	Batch ID: **40268**	RunNo: **54034**
Prep Date: **9/11/2018**	Analysis Date: **9/12/2018**	SeqNo: **1788343** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	170	9.9	49.26	96.10	154	53.5	126			S
Surr: DNOP	5.0		4.926		101	50.6	138			

Sample ID **1809374-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **NE Base #1 (East)**	Batch ID: **40268**	RunNo: **54034**
Prep Date: **9/11/2018**	Analysis Date: **9/12/2018**	SeqNo: **1788344** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	150	9.6	48.17	96.10	102	53.5	126	16.7	21.7	
Surr: DNOP	4.9		4.817		101	50.6	138	0	0	

Sample ID **LCS-40268**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **40268**	RunNo: **54034**
Prep Date: **9/11/2018**	Analysis Date: **9/12/2018**	SeqNo: **1788364** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.3	70	130			
Surr: DNOP	3.9		5.000		78.4	50.6	138			

Sample ID **MB-40268**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **40268**	RunNo: **54034**
Prep Date: **9/11/2018**	Analysis Date: **9/12/2018**	SeqNo: **1788365** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		82.8	50.6	138			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809374**

24-Sep-18

Client: Blagg Engineering

Project: CBU Battery North Dig

Sample ID **MB-40223**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **40223**	RunNo: **54017**
Prep Date: **9/7/2018**	Analysis Date: **9/9/2018**	SeqNo: **1784288** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	790		1000		78.6	15	316			

Sample ID **LCS-40223**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **40223**	RunNo: **54017**
Prep Date: **9/7/2018**	Analysis Date: **9/9/2018**	SeqNo: **1784289** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	75.9	131			
Surr: BFB	910		1000		91.1	15	316			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809374**

24-Sep-18

Client: Blagg Engineering

Project: CBU Battery North Dig

Sample ID **MB-40223**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **40223**	RunNo: **54017**
Prep Date: **9/7/2018**	Analysis Date: **9/9/2018**	SeqNo: **1784328** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.73		1.000		73.0	80	120			S

Sample ID **LCS-40223**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **40223**	RunNo: **54017**
Prep Date: **9/7/2018**	Analysis Date: **9/9/2018**	SeqNo: **1784329** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.0	77.3	128			
Toluene	0.91	0.050	1.000	0	91.1	79.2	125			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.4	81.6	129			
Surr: 4-Bromofluorobenzene	0.77		1.000		76.6	80	120			S

Sample ID **1809374-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **NE Base #1 (East)**	Batch ID: **40223**	RunNo: **54017**
Prep Date: **9/7/2018**	Analysis Date: **9/9/2018**	SeqNo: **1784332** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.76	0.023	0.9191	0	82.3	68.5	133			
Toluene	0.80	0.046	0.9191	0	87.5	75	130			
Ethylbenzene	0.81	0.046	0.9191	0	88.4	79.4	128			
Xylenes, Total	2.5	0.092	2.757	0.01219	89.4	77.3	131			
Surr: 4-Bromofluorobenzene	0.70		0.9191		76.0	80	120			S

Sample ID **1809374-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **NE Base #1 (East)**	Batch ID: **40223**	RunNo: **54017**
Prep Date: **9/7/2018**	Analysis Date: **9/9/2018**	SeqNo: **1784333** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	0.9990	0	84.3	68.5	133	10.8	20	
Toluene	0.91	0.050	0.9990	0	90.8	75	130	12.0	20	
Ethylbenzene	0.91	0.050	0.9990	0	91.4	79.4	128	11.7	20	
Xylenes, Total	2.8	0.10	2.997	0.01219	91.4	77.3	131	10.5	20	
Surr: 4-Bromofluorobenzene	0.76		0.9990		76.2	80	120	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: DJR OPERATING Work Order Number: 1809374 RcptNo: 1

Received By: Anne Thorne 9/7/2018 6:30:00 AM Anne Thorne

Completed By: Anne Thorne 9/7/2018 9:15:48 AM Anne Thorne

Reviewed By: IO 09/07/18

Labeled by ENM 9/7/18

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: _____
ENM 9/7/18

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	1.2	Good	Yes			

Chain-of-Custody Record

Client: DJR OPERATING
BLAGG ENGINEERING
Mailing Address:

Phone #: 505-320-1103
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: CBU BATTERY - NORTH DIG
Project #:
Project Manager: AMY ARCHULETA
Sampler: JEFF BLAGG
On Ice: ☒ Yes ☐ No
Sample Temperature: 2 Coders 1.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1809314	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
9/6/2018	1119	SOIL	NE BASE #1 (EAST)	4 oz x 1	COOL	001	X		X									X				
	1135		NE BASE #2 (West)			002																
	1148		LACT BASE #1			003																
	1155		LACT BASE #2			004																
	1207		LACT BASE #3			005																
	1213		LACT BASE #4			006																
	1221		LACT WALL #1			007																
	1226		LACT WALL #2			008																
	1234		LACT WALL #3			009																

Date	Time	Relinquished by	Received by	Date	Time
9/6/2018	1630	Jeff Blagg	Chad Ward	9/6/18	1630
9/6/18	1748	Christa Weeks		09/07/18	0830

Remarks: BILL DJR

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 27, 2018

Amy Archuleta
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 632-1199
FAX (505) 632-3903

RE: CBU Battery South Dig OrderNo.: 1809377

Dear Amy Archuleta:

Hall Environmental Analysis Laboratory received 9 sample(s) on 9/7/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1809377**
Date Reported: **9/27/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery South Dig
Lab ID: 1809377-001 **Matrix:** SOIL

Client Sample ID: NE Base
Collection Date: 9/6/2018 1:24:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	290	30		mg/Kg	20	9/22/2018 7:33:11 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/12/2018 7:28:41 PM	40268
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/12/2018 7:28:41 PM	40268
Surr: DNOP	91.5	50.6-138		%Rec	1	9/12/2018 7:28:41 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/10/2018 2:53:05 AM	40223
Surr: BFB	77.2	15-316		%Rec	1	9/10/2018 2:53:05 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/10/2018 2:53:05 AM	40223
Toluene	ND	0.049		mg/Kg	1	9/10/2018 2:53:05 AM	40223
Ethylbenzene	ND	0.049		mg/Kg	1	9/10/2018 2:53:05 AM	40223
Xylenes, Total	ND	0.098		mg/Kg	1	9/10/2018 2:53:05 AM	40223
Surr: 4-Bromofluorobenzene	71.4	80-120	S	%Rec	1	9/10/2018 2:53:05 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery South Dig
Lab ID: 1809377-002 **Matrix:** SOIL

Client Sample ID: NW Base
Collection Date: 9/6/2018 1:33:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	330	30		mg/Kg	20	9/22/2018 8:10:25 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/12/2018 7:53:08 PM	40268
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/12/2018 7:53:08 PM	40268
Surr: DNOP	92.0	50.6-138		%Rec	1	9/12/2018 7:53:08 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/10/2018 3:16:23 AM	40223
Surr: BFB	76.4	15-316		%Rec	1	9/10/2018 3:16:23 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/10/2018 3:16:23 AM	40223
Toluene	ND	0.047		mg/Kg	1	9/10/2018 3:16:23 AM	40223
Ethylbenzene	ND	0.047		mg/Kg	1	9/10/2018 3:16:23 AM	40223
Xylenes, Total	ND	0.094		mg/Kg	1	9/10/2018 3:16:23 AM	40223
Surr: 4-Bromofluorobenzene	71.0	80-120	S	%Rec	1	9/10/2018 3:16:23 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery South Dig
Lab ID: 1809377-003 **Matrix:** SOIL

Client Sample ID: SW Base
Collection Date: 9/6/2018 1:48:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **SRM**	
Chloride	190	30		mg/Kg	20	9/22/2018 8:47:38 AM	40513
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	61	10		mg/Kg	1	9/13/2018 9:53:06 AM	40268
Motor Oil Range Organics (MRO)	92	50		mg/Kg	1	9/13/2018 9:53:06 AM	40268
Surr: DNOP	92.6	50.6-138		%Rec	1	9/13/2018 9:53:06 AM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/10/2018 3:39:43 AM	40223
Surr: BFB	74.6	15-316		%Rec	1	9/10/2018 3:39:43 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/10/2018 3:39:43 AM	40223
Toluene	ND	0.048		mg/Kg	1	9/10/2018 3:39:43 AM	40223
Ethylbenzene	ND	0.048		mg/Kg	1	9/10/2018 3:39:43 AM	40223
Xylenes, Total	ND	0.097		mg/Kg	1	9/10/2018 3:39:43 AM	40223
Surr: 4-Bromofluorobenzene	68.5	80-120	S	%Rec	1	9/10/2018 3:39:43 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery South Dig
Lab ID: 1809377-004 **Matrix:** SOIL

Client Sample ID: SE Base
Collection Date: 9/6/2018 1:57:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	190	30		mg/Kg	20	9/22/2018 9:49:42 AM	40515
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/12/2018 8:42:12 PM	40268
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/12/2018 8:42:12 PM	40268
Surr: DNOP	89.2	50.6-138		%Rec	1	9/12/2018 8:42:12 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/10/2018 4:03:09 AM	40223
Surr: BFB	75.4	15-316		%Rec	1	9/10/2018 4:03:09 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/10/2018 4:03:09 AM	40223
Toluene	ND	0.046		mg/Kg	1	9/10/2018 4:03:09 AM	40223
Ethylbenzene	ND	0.046		mg/Kg	1	9/10/2018 4:03:09 AM	40223
Xylenes, Total	ND	0.093		mg/Kg	1	9/10/2018 4:03:09 AM	40223
Surr: 4-Bromofluorobenzene	69.5	80-120	S	%Rec	1	9/10/2018 4:03:09 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery South Dig
Lab ID: 1809377-005 **Matrix:** SOIL

Client Sample ID: South Wall - West
Collection Date: 9/6/2018 2:03:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	590	30		mg/Kg	20	9/22/2018 10:26:56 AM	40515
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/12/2018 9:06:47 PM	40268
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/12/2018 9:06:47 PM	40268
Surr: DNOP	75.3	50.6-138		%Rec	1	9/12/2018 9:06:47 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/10/2018 11:58:08 PM	40223
Surr: BFB	91.3	15-316		%Rec	1	9/10/2018 11:58:08 PM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/10/2018 11:58:08 PM	40223
Toluene	ND	0.047		mg/Kg	1	9/10/2018 11:58:08 PM	40223
Ethylbenzene	ND	0.047		mg/Kg	1	9/10/2018 11:58:08 PM	40223
Xylenes, Total	ND	0.094		mg/Kg	1	9/10/2018 11:58:08 PM	40223
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	9/10/2018 11:58:08 PM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery South Dig
Lab ID: 1809377-006 **Matrix:** SOIL

Client Sample ID: West Wall - North
Collection Date: 9/6/2018 2:07:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	130	30		mg/Kg	20	9/22/2018 10:39:21 AM	40515
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/12/2018 9:31:08 PM	40268
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/12/2018 9:31:08 PM	40268
Surr: DNOP	81.4	50.6-138		%Rec	1	9/12/2018 9:31:08 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2018 12:21:19 AM	40223
Surr: BFB	92.3	15-316		%Rec	1	9/11/2018 12:21:19 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	9/11/2018 12:21:19 AM	40223
Toluene	ND	0.047		mg/Kg	1	9/11/2018 12:21:19 AM	40223
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2018 12:21:19 AM	40223
Xylenes, Total	ND	0.093		mg/Kg	1	9/11/2018 12:21:19 AM	40223
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	9/11/2018 12:21:19 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery South Dig
Lab ID: 1809377-007 **Matrix:** SOIL

Client Sample ID: North Wall - East
Collection Date: 9/6/2018 2:15:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	300	30		mg/Kg	20	9/22/2018 10:51:45 AM	40515
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	9/12/2018 9:55:39 PM	40268
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/12/2018 9:55:39 PM	40268
Surr: DNOP	91.5	50.6-138		%Rec	1	9/12/2018 9:55:39 PM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2018 12:44:30 AM	40223
Surr: BFB	88.4	15-316		%Rec	1	9/11/2018 12:44:30 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/11/2018 12:44:30 AM	40223
Toluene	ND	0.047		mg/Kg	1	9/11/2018 12:44:30 AM	40223
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2018 12:44:30 AM	40223
Xylenes, Total	ND	0.094		mg/Kg	1	9/11/2018 12:44:30 AM	40223
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	9/11/2018 12:44:30 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery South Dig
Lab ID: 1809377-008 **Matrix:** SOIL

Client Sample ID: East Wall - North
Collection Date: 9/6/2018 2:19:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	240	30		mg/Kg	20	9/22/2018 11:04:10 AM	40515
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	100	9.8		mg/Kg	1	9/13/2018 10:17:35 AM	40268
Motor Oil Range Organics (MRO)	240	49		mg/Kg	1	9/13/2018 10:17:35 AM	40268
Surr: DNOP	99.4	50.6-138		%Rec	1	9/13/2018 10:17:35 AM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/11/2018 1:07:43 AM	40223
Surr: BFB	89.7	15-316		%Rec	1	9/11/2018 1:07:43 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/11/2018 1:07:43 AM	40223
Toluene	ND	0.048		mg/Kg	1	9/11/2018 1:07:43 AM	40223
Ethylbenzene	ND	0.048		mg/Kg	1	9/11/2018 1:07:43 AM	40223
Xylenes, Total	ND	0.097		mg/Kg	1	9/11/2018 1:07:43 AM	40223
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	9/11/2018 1:07:43 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: CBU Battery South Dig
Lab ID: 1809377-009 **Matrix:** SOIL

Client Sample ID: East Wall - South
Collection Date: 9/6/2018 2:23:00 PM
Received Date: 9/7/2018 6:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	650	30		mg/Kg	20	9/22/2018 11:16:35 AM	40515
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	120	9.7		mg/Kg	1	9/13/2018 11:06:26 AM	40268
Motor Oil Range Organics (MRO)	210	48		mg/Kg	1	9/13/2018 11:06:26 AM	40268
Surr: DNOP	103	50.6-138		%Rec	1	9/13/2018 11:06:26 AM	40268
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2018 1:30:57 AM	40223
Surr: BFB	90.7	15-316		%Rec	1	9/11/2018 1:30:57 AM	40223
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/11/2018 1:30:57 AM	40223
Toluene	ND	0.047		mg/Kg	1	9/11/2018 1:30:57 AM	40223
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2018 1:30:57 AM	40223
Xylenes, Total	ND	0.094		mg/Kg	1	9/11/2018 1:30:57 AM	40223
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	9/11/2018 1:30:57 AM	40223

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809377**

27-Sep-18

Client: Blagg Engineering

Project: CBU Battery South Dig

Sample ID	**MB-40513**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**40513**		RunNo:	**54344**				
Prep Date:	**9/21/2018**	Analysis Date:	**9/22/2018**		SeqNo:	**1798820**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-40513**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**40513**		RunNo:	**54344**				
Prep Date:	**9/21/2018**	Analysis Date:	**9/22/2018**		SeqNo:	**1798821**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID	**MB-40515**	SampType:	**mblk**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**40515**		RunNo:	**54353**				
Prep Date:	**9/21/2018**	Analysis Date:	**9/22/2018**		SeqNo:	**1799371**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-40515**	SampType:	**lcs**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**40515**		RunNo:	**54353**				
Prep Date:	**9/21/2018**	Analysis Date:	**9/22/2018**		SeqNo:	**1799372**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809377**

27-Sep-18

Client: Blagg Engineering

Project: CBU Battery South Dig

Sample ID **LCS-40268**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **40268**	RunNo: **54034**
Prep Date: **9/11/2018**	Analysis Date: **9/12/2018**	SeqNo: **1788364** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.3	70	130			
Surr: DNOP	3.9		5.000		78.4	50.6	138			

Sample ID **MB-40268**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **40268**	RunNo: **54034**
Prep Date: **9/11/2018**	Analysis Date: **9/12/2018**	SeqNo: **1788365** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		82.8	50.6	138			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809377**

27-Sep-18

Client: Blagg Engineering

Project: CBU Battery South Dig

Sample ID **MB-40223**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **40223**	RunNo: **54017**
Prep Date: **9/7/2018**	Analysis Date: **9/9/2018**	SeqNo: **1784288** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	790		1000		78.6	15	316			

Sample ID **LCS-40223**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **40223**	RunNo: **54017**
Prep Date: **9/7/2018**	Analysis Date: **9/9/2018**	SeqNo: **1784289** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	75.9	131			
Surr: BFB	910		1000		91.1	15	316			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809377**

27-Sep-18

Client: Blagg Engineering

Project: CBU Battery South Dig

Sample ID **MB-40223**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **40223**	RunNo: **54017**
Prep Date: **9/7/2018**	Analysis Date: **9/9/2018**	SeqNo: **1784328** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.73		1.000		73.0	80	120			S

Sample ID **LCS-40223**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **40223**	RunNo: **54017**
Prep Date: **9/7/2018**	Analysis Date: **9/9/2018**	SeqNo: **1784329** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.0	77.3	128			
Toluene	0.91	0.050	1.000	0	91.1	79.2	125			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.4	81.6	129			
Surr: 4-Bromofluorobenzene	0.77		1.000		76.6	80	120			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: DJR OPERATING Work Order Number: 1809377 RcptNo: 1

Received By: Anne Thorne 9/7/2018 6:30:00 AM Anne Thorne
Completed By: Anne Thorne 9/7/2018 9:32:52 AM Anne Thorne
Reviewed By: JO 09/07/18

LB: ENM 9/7/18

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: ____ (<2 or >12 unless noted)
Adjusted? ____
Checked by: ____
ENM 9/7/18

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: ____ Date ____
By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: ____
Client Instructions: ____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
2	1.2	Good	Yes			

Chain-of-Custody Record

Client: DJR OPERATING
BLAGG ENGINEERING
Mailing Address:

Phone #: 505-320-1183
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: CBU BATTERY - SOUTH D16
Project #:
Project Manager: AMY ARCHULETA
Sampler: JEFF BLAGG
On Ice: ☒ Yes ☐ No
Sample Temperature: 2 coolers 1.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

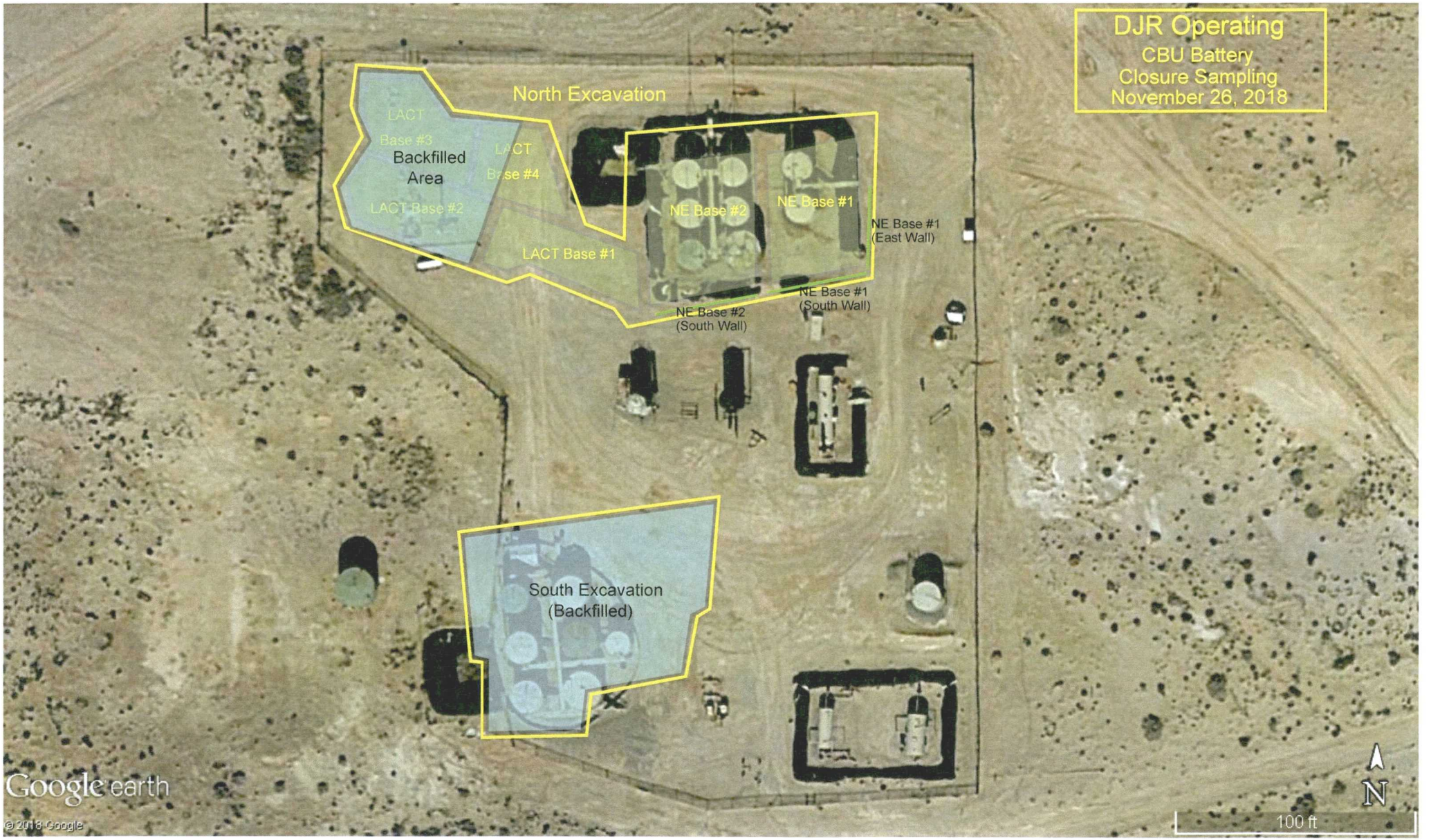
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1809377	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
9/6/2018	1324	SOIL	NE BASE	4oz x 1	COOL	001	X		X									X				
	1333		NW BASE			002																
	1348		SW BASE			003																
	1357		SE BASE			004																
	1403		South Wall - West			005																
	1407		West Wall - North			006																
	1415		North Wall - East			007																
	1419		East Wall - North			008																
	1423		East Wall - South			009																
	ENM 9/7/18																					

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/6/2018	1630	Jeff Blagg		9/6/18	1630
9/6/18	1748			09/07/18	0630

Remarks: BILL DJR

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

APPENDIX B
NOV. 26, 2018 SAMPLE EVENT


DJR Operating
CBU Battery
Closure Sampling
November 26, 2018
North Excavation
LACT
Base #3
Backfilled
Area
LACT
Base #4
LACT Base #2
LACT Base #1
NE Base #2
NE Base #1
NE Base #1
(East Wall)
NE Base #1
(South Wall)
NE Base #2
(South Wall)
South Excavation
(Backfilled)
Google earth
© 2018 Google
N
100 ft

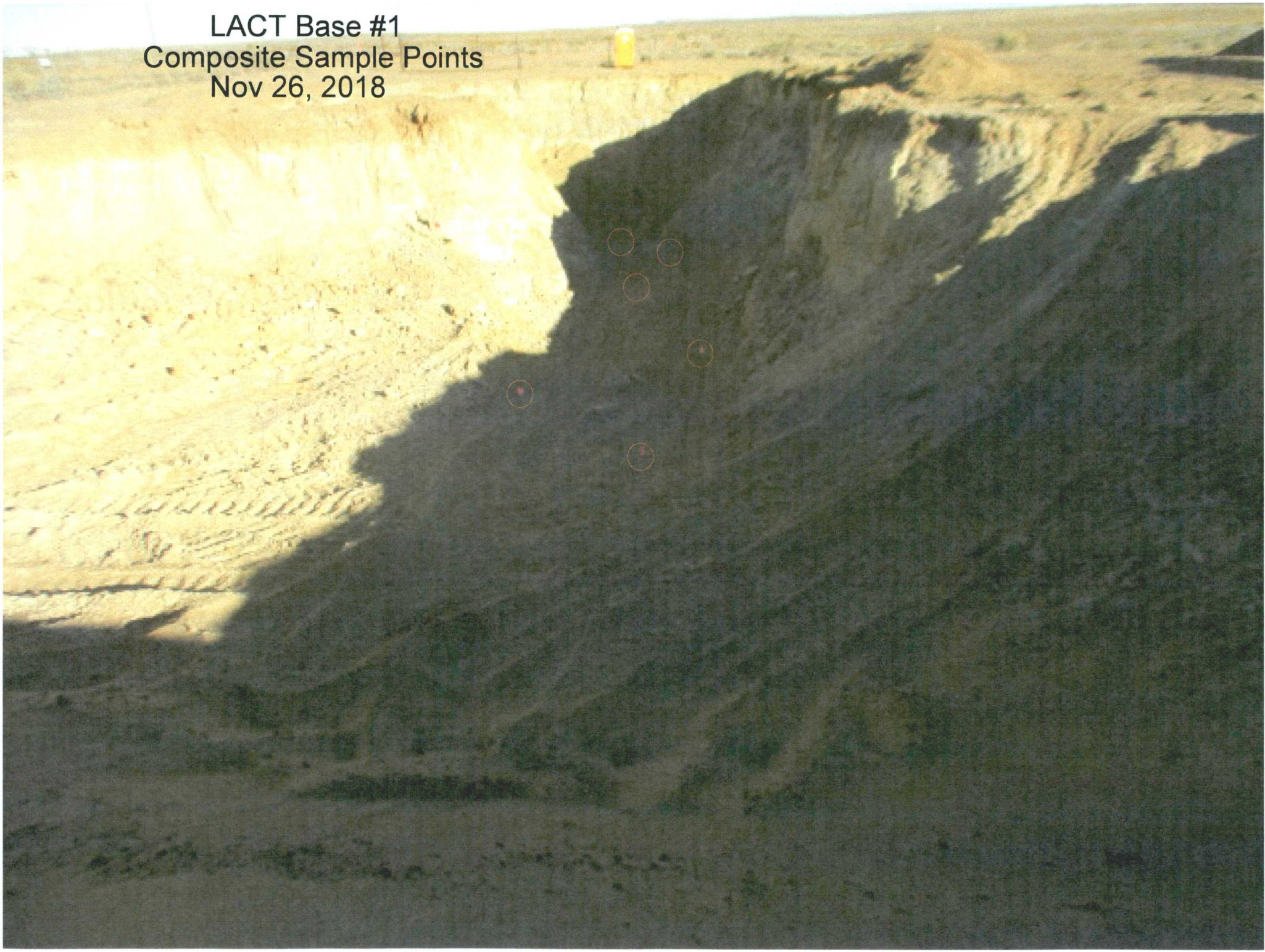
DJR Operating
CBU Battery
NE/4 NW/4 Sec 5 – T25N – R12W
San Juan County, New Mexico
Excavation Closure Laboratory Analytical Results

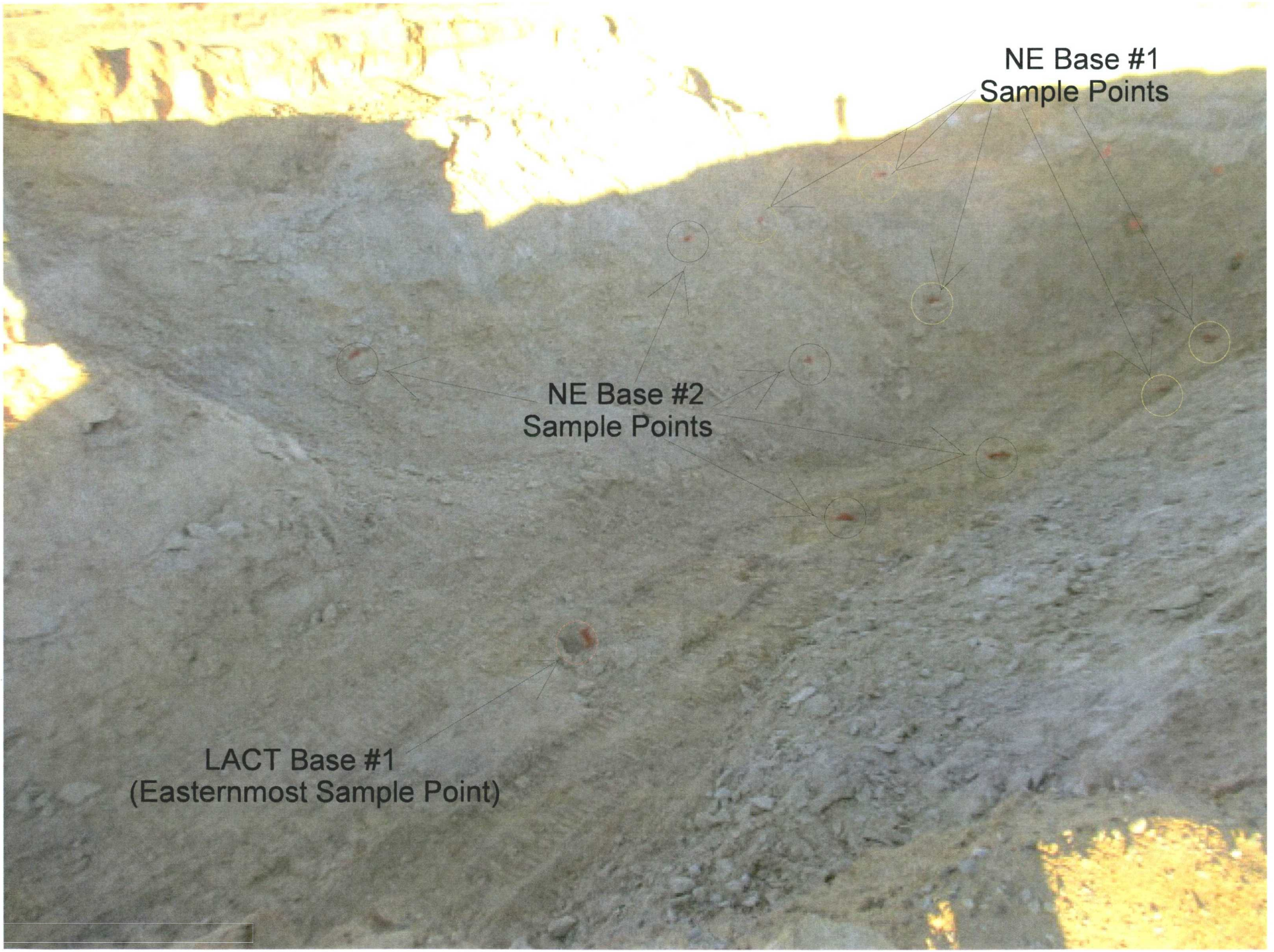
North Excavation
September 6, 2018

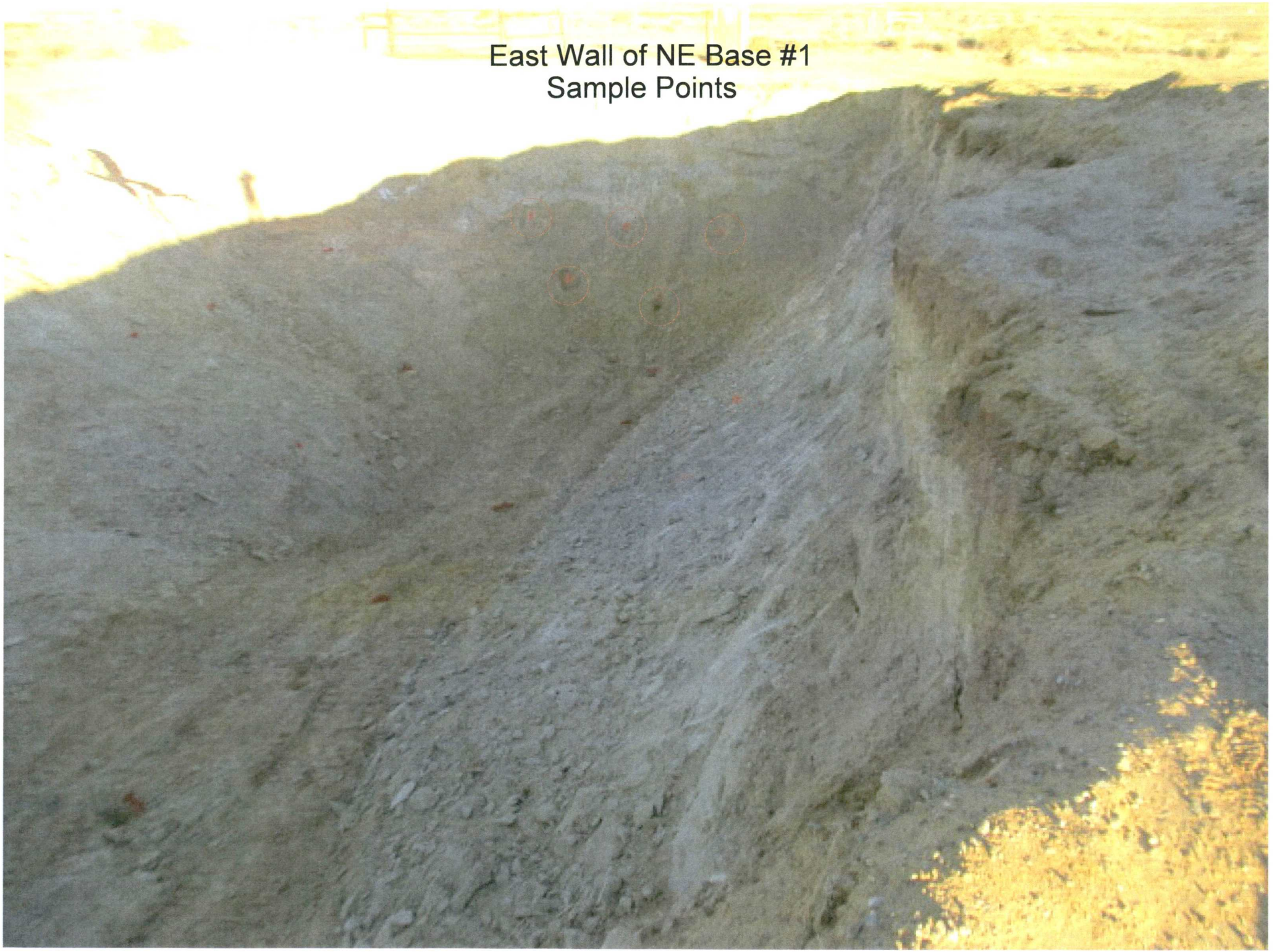
Sample ID (5-pt Comps)	Sample Depth (Feet)	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
NE Base #1 (East)	8.5'	3.2	ND + 96 + 94 = 190	0.01	ND	ND
NE Base #2 (West)	9'	182	ND + 290 + 180 = 470	0.05	ND	ND
LACT Base #1	12'	18.4	ND + 85 + 53 = 138	ND	ND	ND
LACT Base #2	12'	7.2	ND + 46 + ND = 46	ND	ND	ND
LACT Base #3	12'	9.1	ND + 34 + ND = 34	ND	ND	ND
LACT Base #4	12'	4.1	ND + 7 + ND = 7	ND	ND	ND
LACT Wall #1	2' – 9'	3.0	ND + 2 + ND = 2	ND	ND	43
LACT Wall #2	3' – 10'	2.8	ND + 34 + 63 = 97	ND	ND	68
LACT Wall #3	2' – 9'	2.0	ND + 60 + 98 = 158	ND	ND	ND

North Excavation
November 26, 2018

Sample ID (5-pt Comps)	Sample Depth (Feet)	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
LACT Base #1	12'-14'	0.5	ND + ND + ND = ND	ND	ND	24.8
NE Base #2(East)	12'-25'	0.6	ND + ND + ND = ND	ND	ND	ND
NE Base #1 (West)	12'-25'	0.7	ND + ND + ND = ND	ND	ND	ND
East Wall of NE Base #1	12'-22'	0.9	ND + ND + ND = ND	ND	ND	ND
South Wall of NE Base #1	12'-22'	1.2	ND + 25.2 + ND = 25.2	ND	ND	37.5
South Wall of NE Base #2	12'-22'	1.2	ND + ND + ND = ND	ND	ND	ND

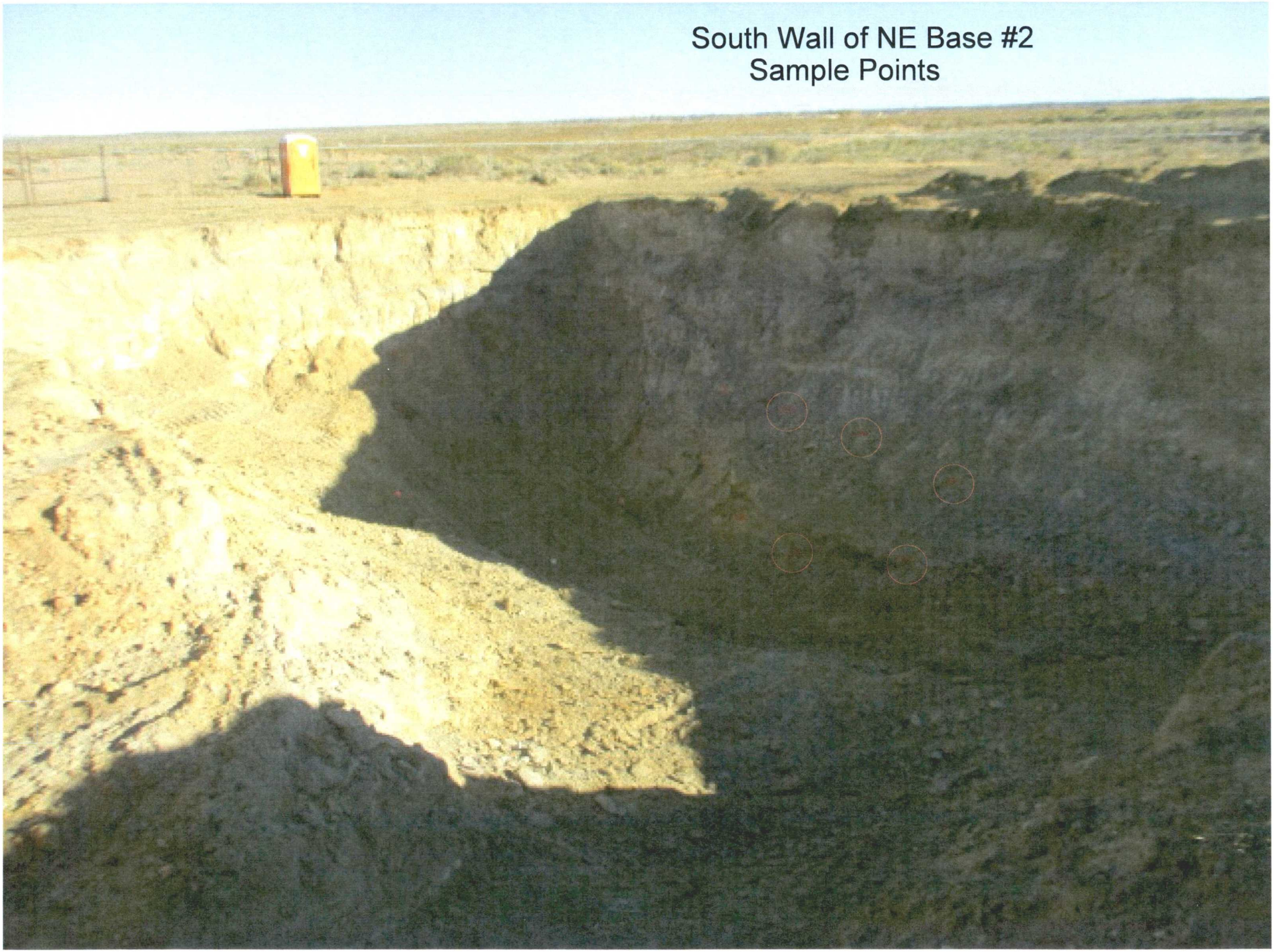

LACT Base #1
Composite Sample Points
Nov 26, 2018


NE Base #1
Sample Points
NE Base #2
Sample Points
LACT Base #1
(Easternmost Sample Point)


East Wall of NE Base #1
Sample Points


South Wall of NE Base #1
Sample Points

South Wall of NE Base #2
Sample Points



envirotech
Analytical Laboratory

Analytical Report

Report Summary

Client: DJR Operating, LLC

Chain Of Custody Number:

Samples Received: 11/27/2018 8:10:00AM

Job Number: 17035-0028

Work Order: P811074

Project Name/Location: CBU Battery - North Dig

Report Reviewed By: _____ Date: 12/3/18

Walter Hinchman, Laboratory Director

_____ Date: 12/3/18

Tim Cain, Project Manager

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
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DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Lact Base #1	P811074-01A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.
NE Base #2	P811074-02A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.
NE Base #1	P811074-03A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.
East Wall of NE Base #1	P811074-04A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.
South Wall of NE Base #1	P811074-05A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.
South Wall of NE Base #2	P811074-06A	Soil	11/26/18	11/27/18	Glass Jar, 4 oz.

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DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

Lact Base #1
P811074-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848009	11/27/18	11/27/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/27/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*104 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8015D*	
Surrogate: n-Nonane		*88.7 %*		*50-200*	*1848009*	*11/27/18*	*11/27/18*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**24.8**	20.0	mg/kg	1	1848012	11/28/18	11/28/18	EPA 300.0/9056A	

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DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

NE Base #2
P811074-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*103 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8015D*	
Surrogate: n-Nonane		*91.3 %*		*50-200*	*1848009*	*11/27/18*	*11/28/18*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1848012	11/28/18	11/28/18	EPA 300.0/9056A	

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DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

NE Base #1
P811074-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8015D*	
Surrogate: n-Nonane		*92.1 %*		*50-200*	*1848009*	*11/27/18*	*11/28/18*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1848012	11/28/18	11/28/18	EPA 300.0/9056A	

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DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

East Wall of NE Base #1
P811074-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8015D*	
Surrogate: n-Nonane		*89.9 %*		*50-200*	*1848009*	*11/27/18*	*11/28/18*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1848012	11/28/18	11/28/18	EPA 300.0/9056A	

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DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

South Wall of NE Base #1
P811074-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	**25.2**	25.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*104 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8015D*	
Surrogate: n-Nonane		*93.7 %*		*50-200*	*1848009*	*11/27/18*	*11/28/18*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**37.5**	20.0	mg/kg	1	1848012	11/28/18	11/28/18	EPA 300.0/9056A	

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DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

South Wall of NE Base #2
P811074-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1848010	11/27/18	12/01/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1848010	11/27/18	12/01/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1848009	11/27/18	11/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*104 %*		*50-150*	*1848010*	*11/27/18*	*12/01/18*	*EPA 8015D*	
Surrogate: n-Nonane		*99.5 %*		*50-200*	*1848009*	*11/27/18*	*11/28/18*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1848012	11/28/18	11/29/18	EPA 300.0/9056A	

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DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1848010 - Purge and Trap EPA 5030A										
Blank (1848010-BLK1)				Prepared: 11/27/18 1 Analyzed: 11/28/18 1						
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	*8030*		"	*8000*		*100*	*50-150*			
LCS (1848010-BS1)				Prepared: 11/27/18 1 Analyzed: 11/28/18 1						
Benzene	5130	100	ug/kg	5000		103	70-130			
Toluene	5150	100	"	5000		103	70-130			
Ethylbenzene	5200	100	"	5000		104	70-130			
p,m-Xylene	10600	200	"	10000		106	70-130			
o-Xylene	5130	100	"	5000		103	70-130			
Total Xylenes	15800	100	"	15000		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8080*		"	*8000*		*101*	*50-150*			
Matrix Spike (1848010-MS1)		**Source: P811072-01**		Prepared: 11/27/18 1 Analyzed: 11/28/18 2						
Benzene	5050	100	ug/kg	5000	ND	101	54.3-133			
Toluene	5080	100	"	5000	ND	102	61.4-130			
Ethylbenzene	5130	100	"	5000	ND	103	61.4-133			
p,m-Xylene	10500	200	"	10000	ND	105	63.3-131			
o-Xylene	5070	100	"	5000	ND	101	63.3-131			
Total Xylenes	15600	100	"	15000	ND	104	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*8140*		"	*8000*		*102*	*50-150*			
Matrix Spike Dup (1848010-MSD1)		**Source: P811072-01**		Prepared: 11/27/18 1 Analyzed: 11/28/18 2						
Benzene	5260	100	ug/kg	5000	ND	105	54.3-133	4.12	20	
Toluene	5290	100	"	5000	ND	106	61.4-130	4.00	20	
Ethylbenzene	5350	100	"	5000	ND	107	61.4-133	4.15	20	
p,m-Xylene	10900	200	"	10000	ND	109	63.3-131	4.14	20	
o-Xylene	5280	100	"	5000	ND	106	63.3-131	3.99	20	
Total Xylenes	16200	100	"	15000	ND	108	63.3-131	4.09	20	
Surrogate: 4-Bromochlorobenzene-PID	*8160*		"	*8000*		*102*	*50-150*			

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DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1848009 - DRO Extraction EPA 3570										
Blank (1848009-BLK1)				Prepared & Analyzed: 11/27/18 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	*46.0*		"	*50.0*		*92.0*	*50-200*			
LCS (1848009-BS1)				Prepared & Analyzed: 11/27/18 1						
Diesel Range Organics (C10-C28)	477	25.0	mg/kg	500		95.5	38-132			
Surrogate: n-Nonane	*45.0*		"	*50.0*		*89.9*	*50-200*			
Matrix Spike (1848009-MS1)	**Source: P811072-01**			Prepared & Analyzed: 11/27/18 1						
Diesel Range Organics (C10-C28)	619	25.0	mg/kg	500	104	103	38-132			
Surrogate: n-Nonane	*45.8*		"	*50.0*		*91.5*	*50-200*			
Matrix Spike Dup (1848009-MSD1)	**Source: P811072-01**			Prepared & Analyzed: 11/27/18 1						
Diesel Range Organics (C10-C28)	602	25.0	mg/kg	500	104	99.7	38-132	2.81	20	
Surrogate: n-Nonane	*44.8*		"	*50.0*		*89.7*	*50-200*			

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DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1848010 - Purge and Trap EPA 5030A										
Blank (1848010-BLK1)				Prepared: 11/27/18 1 Analyzed: 11/28/18 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.22*		"	*8.00*		*103*	*50-150*			
LCS (1848010-BS2)				Prepared: 11/27/18 1 Analyzed: 11/28/18 2						
Gasoline Range Organics (C6-C10)	46.7	20.0	mg/kg	50.0		93.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.44*		"	*8.00*		*106*	*50-150*			
Matrix Spike (1848010-MS2)	**Source: P811072-01**			Prepared: 11/27/18 1 Analyzed: 11/28/18 2						
Gasoline Range Organics (C6-C10)	48.4	20.0	mg/kg	50.0	ND	96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.35*		"	*8.00*		*104*	*50-150*			
Matrix Spike Dup (1848010-MSD2)	**Source: P811072-01**			Prepared: 11/27/18 1 Analyzed: 11/28/18 2						
Gasoline Range Organics (C6-C10)	47.0	20.0	mg/kg	50.0	ND	93.9	70-130	2.99	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.31*		"	*8.00*		*104*	*50-150*			

DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1848012 - Anion Extraction EPA 300.0/9056A										
Blank (1848012-BLK1)				Prepared & Analyzed: 11/28/18 1						
Chloride	ND	20.0	mg/kg							
LCS (1848012-BS1)				Prepared & Analyzed: 11/28/18 1						
Chloride	258	20.0	mg/kg	250		103	90-110			
Matrix Spike (1848012-MS1)	**Source: P811072-01**			Prepared & Analyzed: 11/28/18 1						
Chloride	270	20.0	mg/kg	250	ND	108	80-120			
Matrix Spike Dup (1848012-MSD1)	**Source: P811072-01**			Prepared: 11/28/18 1 Analyzed: 11/29/18 1						
Chloride	272	20.0	mg/kg	250	ND	109	80-120	0.948	20	

DJR Operating, LLC	Project Name:	CBU Battery - North Dig	
1 Rd 3263	Project Number:	17035-0028	**Reported:**
Aztec NM, 87410	Project Manager:	Amy Archuleta	12/03/18 14:53

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Project Information | Chain of Custody | Page 1 of 1

Client:	DJR
Project:	CBU Battery - North Dig
Project Manager:	Amy Archuleta
Address:	
City, State, Zip	
Phone:	(505) 632-3476
Email:	aarchuleta@DJRLLC.com

Report Attention

Report due by:	Standard TAT
Attention:	Amy Archuleta / Jeff Blagg
Address:	
City, State, Zip	
Phone:	505-320-1193
Email:	jeffcblagg@AOL.com

Lab Use Only

Lab WO#	Job Number
P 84074	17035-0028

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ — NM: X

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Remarks
1535	11/26/2018	Soil	1	LACT Base #1	1	X	X	X			X		
1543			1	NE Base #2	2								
1551			1	NE Base #1	3								
1559			1	East Wall of NE Base #1	4								
1607			1	South Wall of NE Base #1	5								
1615			1	South Wall of NE Base #2	6								

Additional Instructions: Bill DJR-LLC Y:S Ice in Cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jeff Blagg

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	11/27/2018	0810	Jessica G. Mynatt	11/27/18	08:10
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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