

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	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	DJR Operating LLC	OGRID	371838
Contact Name	Amy Archuleta	Contact Telephone	505-632-3476
Contact email	aarchuleta@djrlc.com	Incident # (assigned by OCD)	NCS 1808030855
Contact mailing address	1 Road 6263, Aztec, New Mexico, 87410		

Location of Release Source

Latitude 36.39910 Longitude -108.00645
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	E.W. Mudge #8	Site Type	Well Site
Date Release Discovered	3/13/18	API# (if applicable)	30-045-26217

Unit Letter	Section	Township	Range	County
J	16	25N	11W	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) 5.5 bbls	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release is believed to be the result of vandalism. A valve, with no handle, was found open on the well head at 1:30 PM on 3/13/18. Historic contamination later encountered during excavation work.

OCD

NMOCd
MAR 28 2019
DISTRICT III

128

Smith, Cory, EMNRD

From: Smith, Cory, EMNRD
Sent: Thursday, April 4, 2019 3:58 PM
To: 'Amy Archuleta'; 'Emmanuel'
Cc: Powell, Brandon, EMNRD
Subject: RE: EW Mudge 8 30-045-26217

Amy,

OCD has reviewed the Remediation plan received on 3/28/19 for the EW Mudge #8.

OCD has approved the deferral request with the following condition:

- DJR will return to clean up impacted areas between located underneath the pumpjack as identified by SC7 either during P&A activities or if the pumpjack is moved for any reason which ever comes first.

The release will not be closed in the OCD system however, at this current time no further action is required of DJR unless the above condition is met.

NCS1808030855 E W MUDGE #008 @ 30-045-26217

General Incident Information

Site Name: E W MUDGE #008
Well: [30-045-26217] E W MUDGE #008
Facility:
Operator: [371838] DJR OPERATING, LLC
Status: Closure Not Approved
Type: Oil Release
District: Aztec

Incident Location: J-16-25N-11W 1980 FSL 1770 FEL
Lat/Long: 36.3991852,-108.0063477 NAD83

IF you have any additional questions please give me a call.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Incident ID	
District RP	
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Application ID	

Remediation Plan

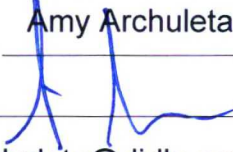
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated. Note: see final excavation report.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Amy Archuleta Title: Regulatory Specialist
 Signature:  Date: 3/25/19
 email: aarchuleta@djrlc.com Telephone: 505-632-3476

OCD Only

Received by: Cory Date: 3/28/19
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved
 Signature:  Date: 4/4/19

Incident ID	
District RP	
Facility ID	
Application ID	

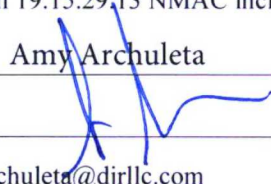
Closure

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: 3/25/19
 email: aarchuleta@djrlc.com Telephone: 505.632.3476

OCD Only

Received by: _____ Date: _____

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: _____

Printed Name: _____ Title: _____

March 20, 2019

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

Sent via electronic mail to:
aarchuleta@djrlc.com

**RE: Excavation Clearance Report
E.W. Mudge #8
API# 30-045-26217
Incident No. NCS 1808030855
NW¼ SE¼, Section 16, T25N, R11W
San Juan County, New Mexico**

Dear Ms. Archuleta:

Animas Environmental Services, LLC (AES) completed confirmation sampling of the excavated areas associated with petroleum-contaminated soils at the DJR Operating (DJR) E.W. Mudge #8 release location between November 2018 and March 2019, including the following dates:

- November 5 and 16, 2018;
- January 10, 17, and 25, 2019;
- February 7 and 14, 2019; and
- March 11, 2019.

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.

1.0 Site Information

1.1 Location

Site Name – E.W. Mudge #8

Legal Description – NW¼ SE¼, Section 16, T25N, R11W, San Juan County, New Mexico

Release Latitude/Longitude – N36.39910, W108.00645, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Location Map

1.2 NMOCD Ranking

In accordance with NMAC 19.15.29.12 Table I (August 2018), release closure criteria are based on the minimum depth to groundwater within the horizontal extent of the release area:

- **Depth to Groundwater:** The site is less than 5 feet higher than a playa lake located 780 feet to the west. Note however that no groundwater was encountered during any of the recent site excavation work. Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be 50 to 100 feet below ground surface (bgs).
- **Sensitive Receptor Determination:** An unnamed wash that ultimately drains to Gallegos Canyon is located 140 ft south of the location. In accordance with NMAC 19.15.29.12C.4, the release must be treated as if it occurred less than 50 ft bgs to groundwater.

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);
- 600 mg/kg chloride.

1.3 Original Assessment and Excavation, March – July 2018

The initial release consisted of approximately 5.5 barrels (bbls) of crude oil from an open valve on the wellhead and was believed to be the result of vandalism. Initial response by DJR included the removal of 40 cubic yards (yds³) of visibly contaminated soil on March 14, 2018.

During excavation of the March 2018 release, DJR discovered that the release had comingled with a historic reserve pit. A total of 116 yds³ of visibly contaminated soil

were removed during initial excavation activities and disposed of at Industrial Ecosystems, Inc. (IEI) Landfarm (NMOCD Permit #NM-01-0010B) in March and April 2018. An additional 320 yds³ were excavated and disposed of at the Envirotech Landfarm (NMOCD Permit #NM-01-0011) in June and July 2018.

1.3 Assessment and Excavation, November 2018 – March 2019

On November 5, 2018, a site delineation was completed in order to develop a plan for excavation of the historic reserve pit. A Remediation Plan was prepared and submitted to NMOCD on November 8, 2018.

Subsequent to approval with conditions by NMOCD, excavation of the areas to the west and east of the pump jack was completed between November 2018 and March 2019. Field sampling activities, over the course of different sampling events, included collection of 30 confirmation soil samples from the walls and bases of the West Excavation Area and East Excavation Area. The area of the final West Excavation Area measured approximately 45 feet by 56 feet by 6 to 8 feet in depth, and the area of the final East Excavation Area measured approximately 65 feet by 97 feet by 10 to 12 feet in depth.

A total of 3,107 cubic yards of soil were excavated and transported to Envirotech Landfarm near Hilltop, New Mexico, or to the IEI Landfarm from March 2018 to March 2019. Sample locations and final excavation extents are presented on Figure 3, and excavation progress is documented in the photograph log. Waste disposal manifests are being maintained separately by DJR.

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 laboratory, Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico. The samples were laboratory analyzed for:

- BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH as GRO, DRO, MRO per USEPA Method 8015 M/D; and
- Chloride per USEPA Method 300.0.

2.2 Laboratory Analytical Results

Laboratory analytical results for the final clearance samples were below applicable action levels for benzene, total BTEX, TPH (as GRO, DRO, and MRO), and chlorides, with the exception of SC-7, which was collected near the southwest corner of the pump jack. Sample results at this location showed 1,690 mg/kg DRO and 309 mg/kg MRO. Laboratory analytical results are summarized on Figure 3, and laboratory analytical reports are attached.

3.0 Conclusions and Reclamation Activities

3.1 Conclusions

Subsequent to submittal of a Remediation Plan dated November 8, 2018, DJR completed excavation of historic contamination at the E.W. Mudge #8 between November 2018 and March 2019. Approximately 3,107 cubic yards of petroleum contaminated soil were excavated and transported for off-site disposal at authorized facilities between March 2018 and March 2019.

Final clearance of the excavation areas was completed during multiple sampling events November 2018 through March 2019. Final laboratory analytical results reported benzene, total BTEX, and TPH concentrations (as GRO/DRO/MRO) in all samples, except SC-7, as below applicable NMOCD action levels. No further action is recommended at this time.

3.2 Request for Deferral

Soils at SC-7, located at the southwest corner of the pump jack from depths of two to six feet bgs, exceeded the TPH action level with 1,690 mg/kg DRO and 309 mg/kg MRO. After consultation with NMOCD, DJR is requesting a deferral for the E.W. Mudge #8, which will allow the residual amount of petroleum hydrocarbon impacted soils to be mitigated when the well is plugged and abandoned (P&A'd). The area around the pumpjack was fully delineated and mitigated as part of the site excavation activities. The fenced area around the pump jack measures approximately 12 ft by 30 ft. Note that estimated depth to groundwater in the area is between 50 to 100 ft bgs, and potential impacts to human health and the environment from leaving the residual contaminants in place at the pump jack is considered to be minimal.

3.3 Reclamation Activities

DJR backfilled the west excavation area on December 5, 2018, and completed the backfill of the east excavation area on March 15, 2019. These areas are not currently

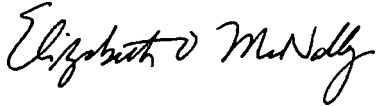
scheduled for reclamation since they are part of the active well location. Photos are included in the photograph log.

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

Sincerely,



David J. Reese
Environmental Scientist



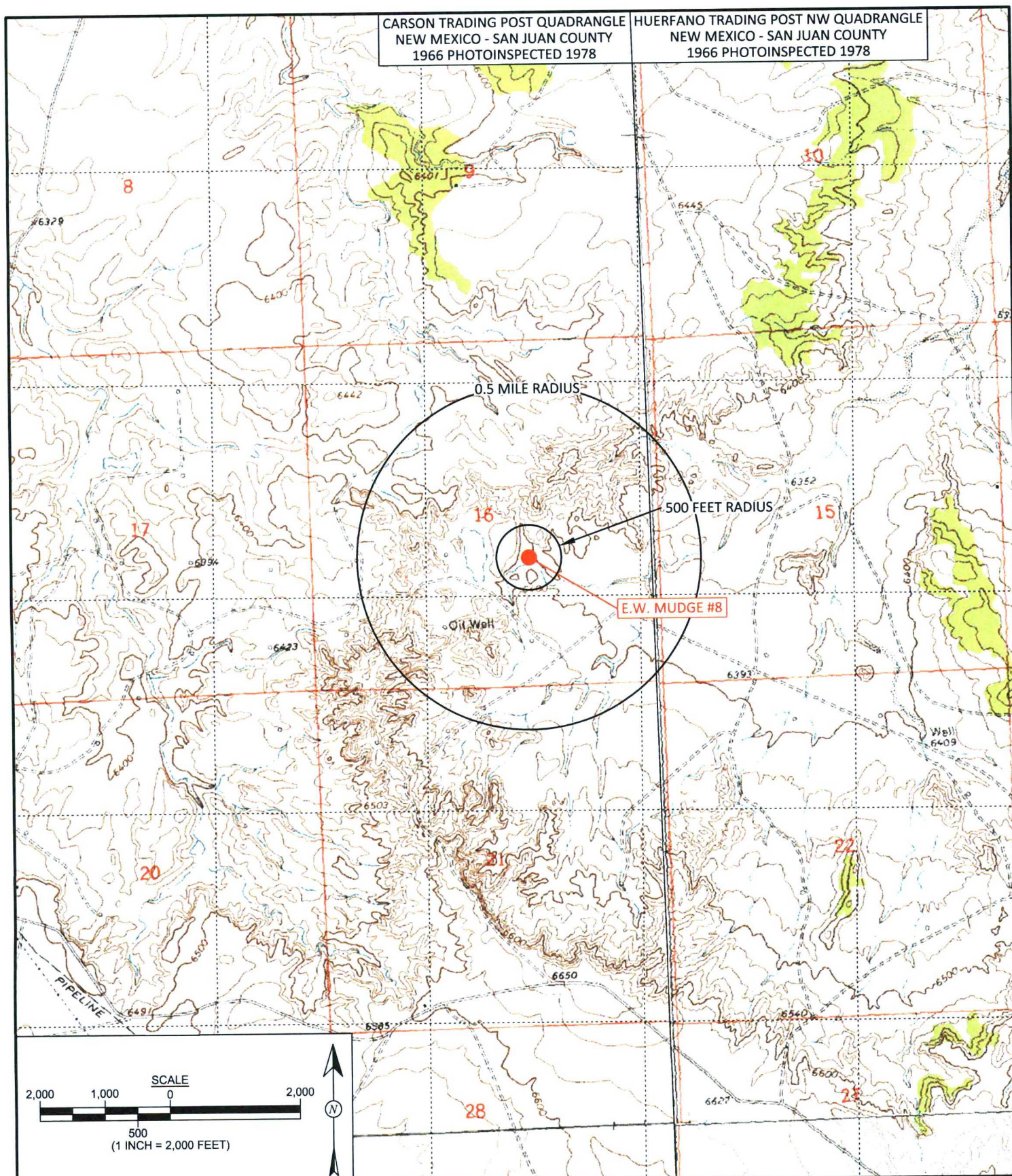
Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Location Map
Figure 3. Excavation Soil Confirmation Sample Locations and Results
Photograph Log
Envirotech Analytical Reports P811017, P811050, P901016, P901024, P901039,
P902009, P902028, P903020

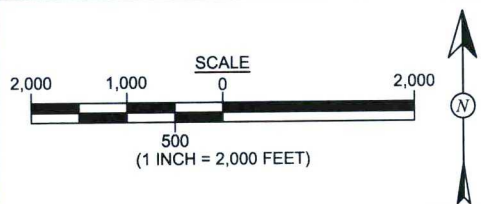
R:\Animas 2000\Dropbox (Animas Environmental)\0000 AES Server Client Projects Dropbox\2019 Client Projects\DJR Operating\EW Mudge 8\Reports\EW Mudge Exc Clearance Report 032019 Final.docx

Attachments



CARSON TRADING POST QUADRANGLE
NEW MEXICO - SAN JUAN COUNTY
1966 PHOTOINSPECTED 1978

HUERFANO TRADING POST NW QUADRANGLE
NEW MEXICO - SAN JUAN COUNTY
1966 PHOTOINSPECTED 1978



animas
environmental
services

Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:
C. Lameman

REVISIONS BY:
C. Lameman

CHECKED BY:
T. Knight

APPROVED BY:
E. McNally

DATE DRAWN:
August 9, 2018

DATE REVISED:
November 6, 2018

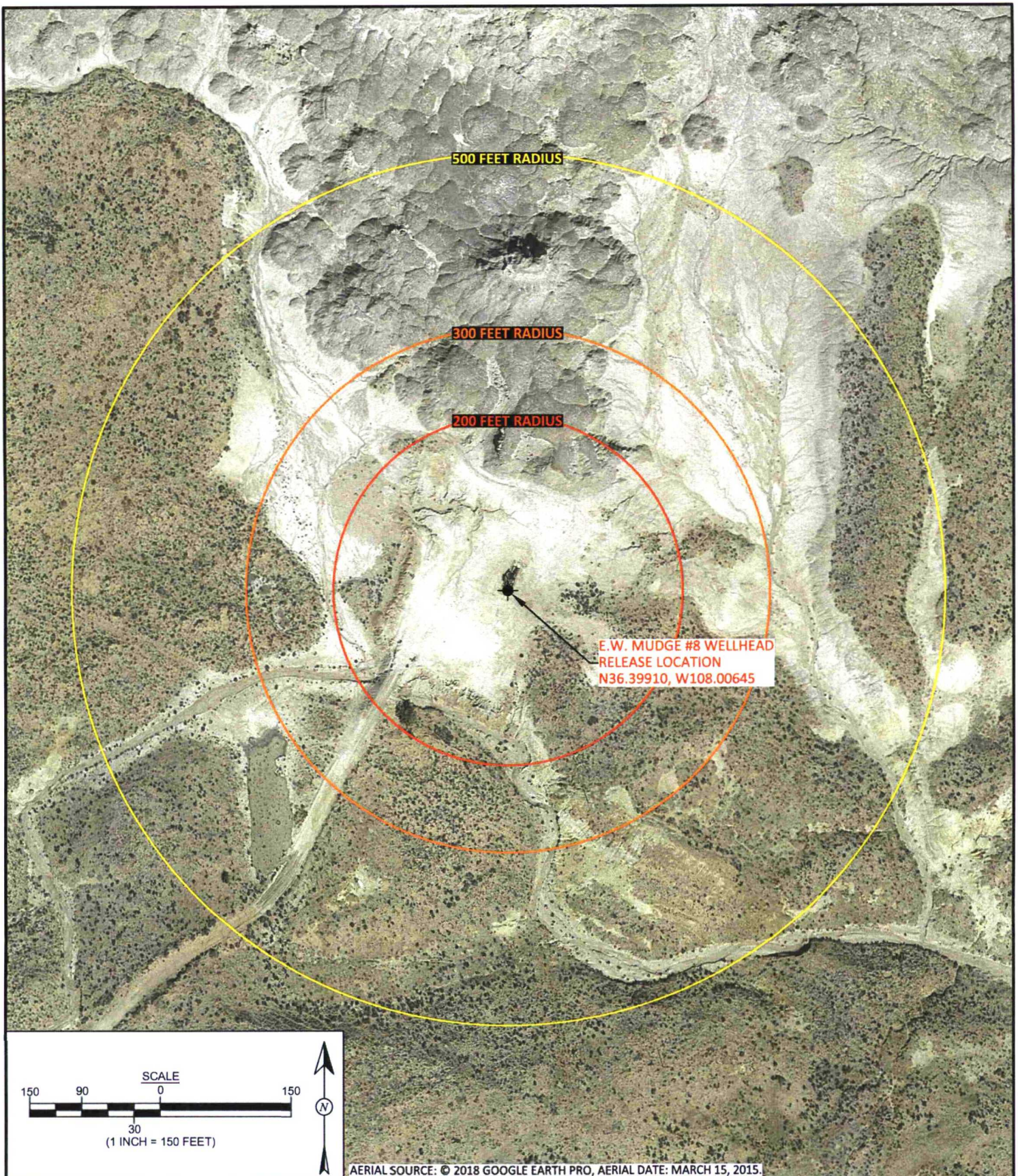
DATE CHECKED:
November 6, 2018

DATE APPROVED:
November 6, 2018

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

DJR OPERATING
E.W. MUDGE #8
API: 30-045-26217
INCIDENT NO. NCS 1808030855
NW¼ SE¼, SECTION 16, T25N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.39910, W108.00645



**animas
environmental
services**
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY:
C. Lameman

DATE DRAWN:
August 9, 2018

REVISIONS BY:
C. Lameman

DATE REVISED:
November 6, 2018

CHECKED BY:
T. Knight

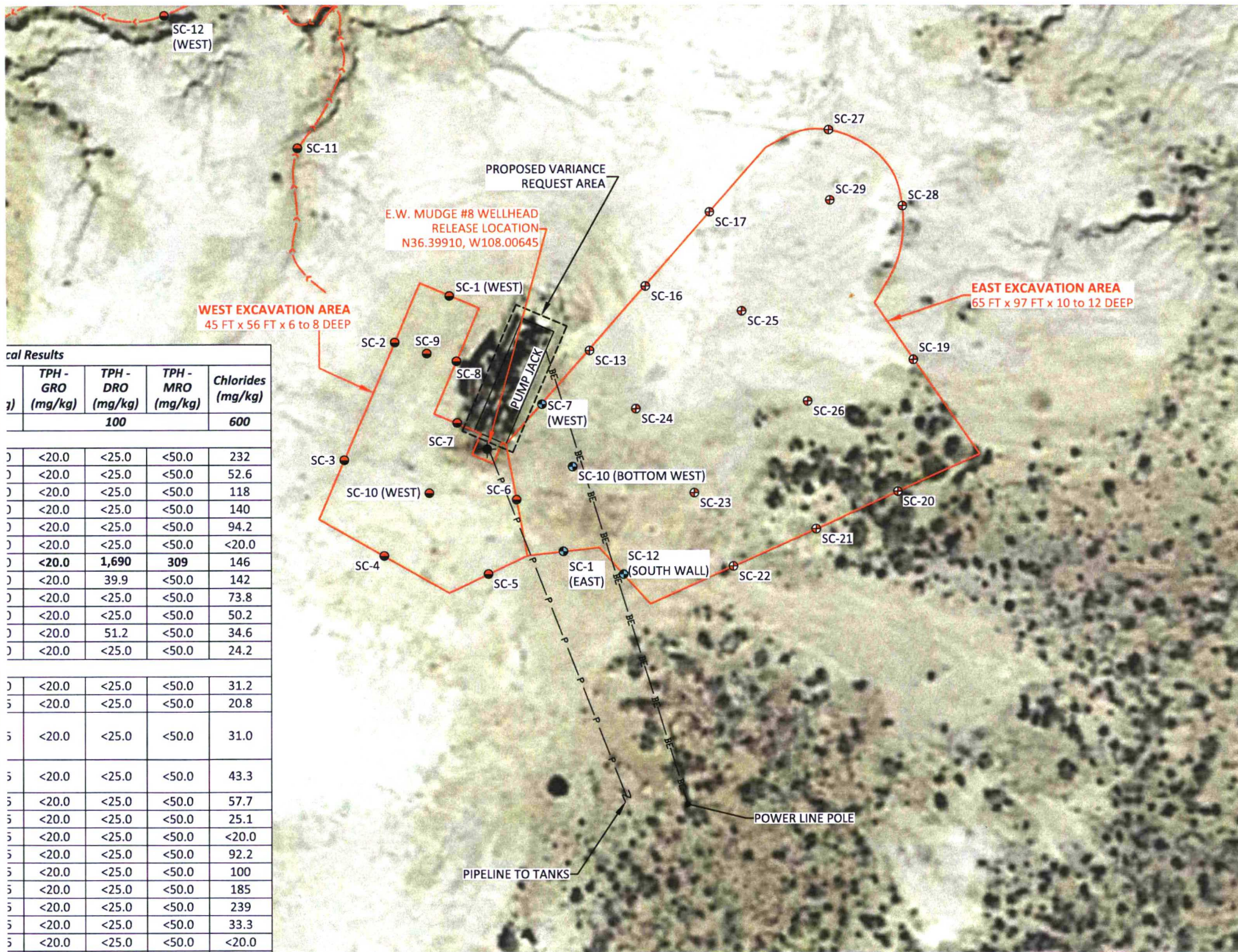
DATE CHECKED:
November 6, 2018

APPROVED BY:
E. McNally

DATE APPROVED:
November 6, 2018

FIGURE 2

AERIAL SITE LOCATION MAP
DJR OPERATING
E.W. MUDGE #8
API: 30-045-26217
INCIDENT NO. NCS 1808030855
NW¼ SE¼, SECTION 16, T25N, R11W
SAN JUAN COUNTY, NEW MEXICO
N36.39910, W108.00645

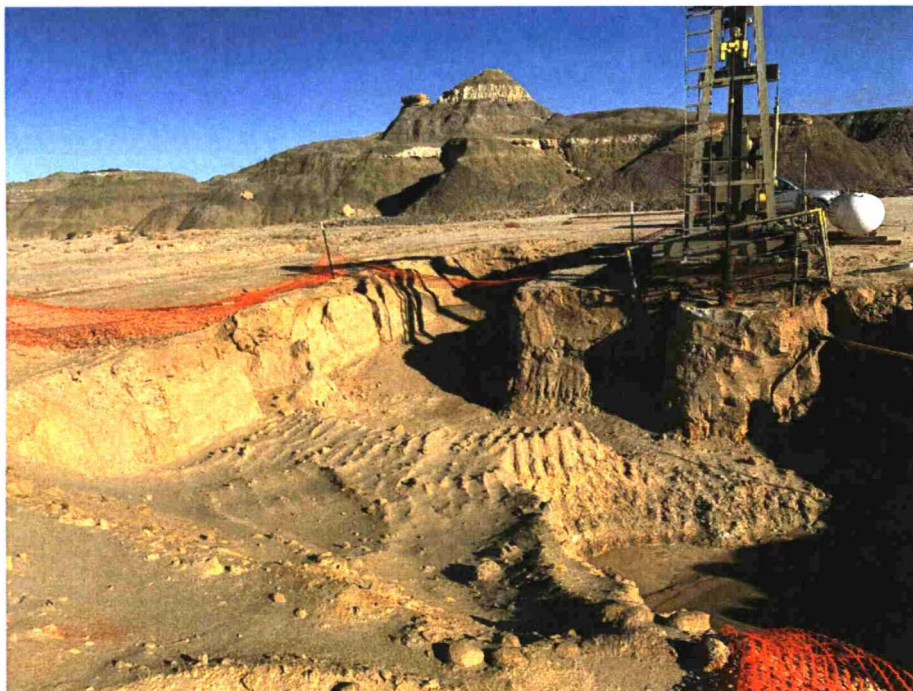


E.W. Mudge #8
API #30-045-26217, Incident No. NCS 1808030855
March 2018 Release

Photo 1: West excavation adjacent to pump jack. Date taken: 11/5/2018.



Photo 2: West excavation adjacent to pump jack. Date taken: 11/5/2018.



E.W. Mudge #8
API #30-045-26217, Incident No. NCS 1808030855
March 2018 Release

Photo 3: East excavation prior to initial backfill and SC-27 through SC-29 sampling. Date taken: 2/14/2019.



Photo 4: East excavation prior to initial backfill and SC-27 through SC-29 sampling. Date taken: 2/14/2019.



E.W. Mudge #8
API #30-045-26217, Incident No. NCS 1808030855
March 2018 Release

Photo 5: Final backfill of west excavation. Date taken: 12/5/2018.



Photo 6: East excavation after initial backfill and SC-27 through SC-29 sampling and prior to final backfill.
Date taken: 3/11/2019.



E.W. Mudge #8
API #30-045-26217, Incident No. NCS 1808030855
March 2018 Release

Photo 7: Final backfill of east excavation. Date taken: 3/15/2019.





AES Note: Samples utilized for closure are highlighted.

Analytical Report

Report Summary

Client: Animas Environmental Services
Chain Of Custody Number:
Samples Received: 11/6/2018 10:17:00AM
Job Number: 99083-0001
Work Order: P811017
Project Name/Location: EW Mudge 8

Report Reviewed By:

Date: 11/8/18

Walter Hinchman, Laboratory Director

Date: 11/8/18

Tim Cain, Project Manager



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.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

 Reported:
 11/08/18 16:53

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-1 WEST	P811017-01A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-01B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
SC-2	P811017-02A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-02B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
SC-3	P811017-03A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-03B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
SC-4	P811017-04A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-04B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
SC-5	P811017-05A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-05B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
SC-6	P811017-06A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-06B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
SC-7	P811017-07A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-07B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
SC-8	P811017-08A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-08B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
SC-9	P811017-09A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-09B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
SC-10	P811017-10A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-10B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
SC-11	P811017-11A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-11B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
SC-12 WEST	P811017-12A	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.
	P811017-12B	Soil	11/05/18	11/06/18	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-1 WEST
P811017-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %		50-150	1845010	11 06 18	11 06 18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/06/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %		50-150	1845010	11 06 18	11 06 18	EPA 8015D	
Surrogate: n-Nonane		92.3 %		50-200	1845013	11 06 18	11 06 18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	232	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-2
P811017-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1845010	11/06/18	11/06/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/06/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %		50-150	1845010	11/06/18	11/06/18	EPA 8015D	
Surrogate: n-Nonane		93.1 %		50-200	1845013	11/06/18	11/06/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	52.6	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-3
P811017-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.8 %		50-150	1845010	11/06/18	11/06/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/06/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1845010	11/06/18	11/06/18	EPA 8015D	
Surrogate: n-Nonane		93.5 %		50-200	1845013	11/06/18	11/06/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	118	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-4
P811017-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1845010	11/06/18	11/06/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/06/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %		50-150	1845010	11/06/18	11/06/18	EPA 8015D	
Surrogate: n-Nonane		92.3 %		50-200	1845013	11/06/18	11/06/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	140	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-5
P811017-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1845010	11/06/18	11/06/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/06/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1845010	11/06/18	11/06/18	EPA 8015D	
Surrogate: n-Nonane		91.1 %		50-200	1845013	11/06/18	11/06/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	94.2	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-6
P811017-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1845010	11/06/18	11/06/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/06/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1845010	11/06/18	11/06/18	EPA 8015D	
Surrogate: n-Nonane		91.3 %		50-200	1845013	11/06/18	11/06/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-7
P811017-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %		50-150	1845010	11 06 18	11 06 18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/06/18	EPA 8015D	
Diesel Range Organics (C10-C28)	1690	50.0	mg/kg	2	1845013	11/06/18	11/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	309	100	mg/kg	2	1845013	11/06/18	11/06/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %		50-150	1845010	11 06 18	11 06 18	EPA 8015D	
Surrogate: n-Nonane		117 %		50-200	1845013	11 06 18	11 06 18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	146	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	

Sample Failed. More Excavation occurred.

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-8
P811017-08 (Solid)

Analyte	Reporting								Notes
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %		50-150	1845010	11/06/18	11/06/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/06/18	EPA 8015D	
Diesel Range Organics (C10-C28)	39.9	25.0	mg/kg	1	1845013	11/06/18	11/07/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1845013	11/06/18	11/07/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1845010	11/06/18	11/06/18	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1845013	11/06/18	11/07/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	142	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-9
P811017-09 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1845010	11/06/18	11/06/18	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/06/18	EPA 8015D	
Diesel Range Organics (C10-C28)	211	25.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1845010	11/06/18	11/06/18	EPA 8015D	
Surrogate: n-Nonane		102 %		50-200	1845013	11/06/18	11/06/18	EPA 8015D	

Anions by 300.0/9056A

Chloride	249	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	
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Sample Failed. More Excavation occurred.

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-10
P811017-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/06/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1845010	11 06 18	11 06 18	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/06/18	EPA 8015D	
Diesel Range Organics (C10-C28)	476	25.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	76.0	50.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %		50-150	1845010	11 06 18	11 06 18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		101 %		50-200	1845013	11 06 18	11 06 18	EPA 8015D	

Anions by 300.0/9056A

Chloride	63.4	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	
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Sample Failed. More Excavation occurred.

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-11
P811017-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %		50-150	1845010	11/06/18	11/07/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/07/18	EPA 8015D	
Diesel Range Organics (C10-C28)	51.2	25.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %		50-150	1845010	11/06/18	11/07/18	EPA 8015D	
Surrogate: n-Nonane		101 %		50-200	1845013	11/06/18	11/06/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	34.6	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/08/18 16:53

SC-12 WEST
P811017-12 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1845010	11/06/18	11/07/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.8 %		50-150	1845010	11/06/18	11/07/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1845010	11/06/18	11/07/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1845013	11/06/18	11/06/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %		50-150	1845010	11/06/18	11/07/18	EPA 8015D	
Surrogate: n-Nonane		91.2 %		50-200	1845013	11/06/18	11/06/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	24.2	20.0	mg/kg	1	1845012	11/06/18	11/06/18	EPA 300.0/9056A	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/08/18 16:53

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
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Batch 1845010 - Purge and Trap EPA 5030A

Blank (1845010-BLK1)

Prepared: 11/06/18 0 Analyzed: 11/07/18 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	7860		"	8000		98.3	50-150			

LCS (1845010-BS1)

Prepared: 11/06/18 0 Analyzed: 11/07/18 1

Benzene	3600	100	ug/kg	5000		72.0	70-130			
Toluene	3640	100	"	5000		72.7	70-130			
Ethylbenzene	3670	100	"	5000		73.4	70-130			
p,m-Xylene	7570	200	"	10000		75.7	70-130			
o-Xylene	3680	100	"	5000		73.5	70-130			
Total Xylenes	11300	100	"	15000		75.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8000		"	8000		100	50-150			

Matrix Spike (1845010-MS1)

Source: P811014-01

Prepared: 11/06/18 0 Analyzed: 11/07/18 1

Benzene	3730	100	ug/kg	5000	ND	74.5	54.3-133			
Toluene	3790	100	"	5000	ND	75.7	61.4-130			
Ethylbenzene	3820	100	"	5000	ND	76.5	61.4-133			
p,m-Xylene	7880	200	"	10000	ND	78.8	63.3-131			
o-Xylene	3820	100	"	5000	ND	76.3	63.3-131			
Total Xylenes	11700	100	"	15000	ND	78.0	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7870		"	8000		98.4	50-150			

Matrix Spike Dup (1845010-MSD1)

Source: P811014-01

Prepared: 11/06/18 0 Analyzed: 11/07/18 1

Benzene	4660	100	ug/kg	5000	ND	93.1	54.3-133	22.2	20	D1
Toluene	4720	100	"	5000	ND	94.4	61.4-130	21.9	20	D1
Ethylbenzene	4770	100	"	5000	ND	95.4	61.4-133	22.0	20	D1
p,m-Xylene	9840	200	"	10000	ND	98.4	63.3-131	22.0	20	D1
o-Xylene	4780	100	"	5000	ND	95.7	63.3-131	22.5	20	D1
Total Xylenes	14600	100	"	15000	ND	97.5	63.3-131	22.2	20	D1
Surrogate: 4-Bromochlorobenzene-PID	7820		"	8000		97.8	50-150			

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/08/18 16:53

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
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Batch 1845010 - Purge and Trap EPA 5030A

Blank (1845010-BLK1)

Prepared: 11/06/18 0 Analyzed: 11/07/18 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.34		"	8.00		104	50-150			

LCS (1845010-BS2)

Prepared: 11/06/18 0 Analyzed: 11/07/18 1

Gasoline Range Organics (C6-C10)	41.0	20.0	mg/kg	50.0		82.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.85		"	8.00		98.1	50-150			

Matrix Spike (1845010-MS2)

Source: P811014-01

Prepared: 11/06/18 0 Analyzed: 11/07/18 1

Gasoline Range Organics (C6-C10)	55.8	20.0	mg/kg	50.0	ND	112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.50		"	8.00		106	50-150			

Matrix Spike Dup (1845010-MSD2)

Source: P811014-01

Prepared: 11/06/18 0 Analyzed: 11/07/18 1

Gasoline Range Organics (C6-C10)	53.3	20.0	mg/kg	50.0	ND	107	70-130	4.63	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.43		"	8.00		105	50-150			

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/08/18 16:53

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
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Batch 1845013 - DRO Extraction EPA 3570

Blank (1845013-BLK1)

Prepared & Analyzed: 11/06/18 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	58.5		"	50.0		117	50-200			

LCS (1845013-BS1)

Prepared & Analyzed: 11/06/18 1

Diesel Range Organics (C10-C28)	458	25.0	mg/kg	500		91.7	38-132			
Surrogate: n-Nonane	50.3		"	50.0		101	50-200			

Matrix Spike (1845013-MS1)

Source: P811014-01

Prepared & Analyzed: 11/06/18 1

Diesel Range Organics (C10-C28)	570	25.0	mg/kg	500	98.7	94.2	38-132			
Surrogate: n-Nonane	46.4		"	50.0		92.8	50-200			

Matrix Spike Dup (1845013-MSD1)

Source: P811014-01

Prepared & Analyzed: 11/06/18 1

Diesel Range Organics (C10-C28)	543	25.0	mg/kg	500	98.7	88.8	38-132	4.79	20	
Surrogate: n-Nonane	49.9		"	50.0		99.8	50-200			

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

 Reported:
 11/08/18 16:53

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 1845012 - Anion Extraction EPA 300.0/9056A										
Blank (1845012-BLK1)				Prepared & Analyzed: 11/06/18 1						
Chloride	ND	20.0	mg/kg							
LCS (1845012-BS1)				Prepared & Analyzed: 11/06/18 1						
Chloride	257	20.0	mg/kg	250		103	90-110			
Matrix Spike (1845012-MS1)				Source: P811017-01 Prepared & Analyzed: 11/06/18 1						
Chloride	501	20.0	mg/kg	250	232	107	80-120			
Matrix Spike Dup (1845012-MSD1)				Source: P811017-01 Prepared & Analyzed: 11/06/18 1						
Chloride	497	20.0	mg/kg	250	232	106	80-120	0.708	20	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/08/18 16:53

Notes and Definitions

D1 Duplicates or Matrix Spike Duplicates or Laboratory Control Sample Duplicates Relative Percent Difference is outside of control limits.

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.

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Project Information

Chain of Custody

Page 1 of 2

Client: AES		Report Attention		Lab Use Only		TAT		EPA Program				
Project: EW Mudge 8		Report due by: 11/08/18 11/07/18		Lab WO# 8811017		Job Number 99083-000		1D	3D	RCRA	CWA	SDWA
Project Manager: Tami Knight		Attention: Amy Archuleta										
Address: 604 W. Pinon		Address: 1 Road 3263						Analysis and Method			State	
City, State, Zip: Farmington, NM 87401		City, State, Zip: Aztec, NM 87410									NM CO UT AZ	
Phone: 505-564-2281		Phone: 505-632-3476										
Email: tknight@animasenvironmental.com		Email: aarchuleta@dirllc.com										

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORD by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Remarks
14:40	11-5-18	Soil	2	SC-1	1	X	X	X			X		
14:36		Soil	2	SC-2	2	X	X	X			X		
14:37		Soil	2	SC-3	3	X	X	X			X		
14:35		Soil	2	SC-4	4	X	X	X			X		
14:39		Soil	2	SC-5	5	X	X	X			X		
14:30		Soil	2	SC-6	6	X	X	X			X		
14:29		Soil	2	SC-7	7	X	X	X			X		
14:31		Soil	2	SC-8	8	X	X	X			X		
14:33		Soil	2	SC-9	9	X	X	X			X		
14:34		Soil	2	SC-10	10	X	X	X			X		

Additional Instructions: vis. ice in cooler - my

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: Sheraden Jaquez

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	Lab Use Only
<u>[Signature]</u>	11-6-18	10:17	<u>[Signature]</u>	11-06-18	10:17	Received on ice: <u>(Y)</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
						AVG Temp °C <u>4.0</u>

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.

Project Information

Chain of Custody

Page 2 of 2

Client: AES		Report Attention		Lab Use Only		TAT		EPA Program				
Project: EW Mudge 8		Report due by: 11/08/18 11/07/18		Lab WO# P811017		Job Number 99083-0001		1D	3D	RCRA	CWA	SDWA
Project Manager: Tami Knight		Attention: Amy Archuleta										
Address: 604 W. Pinon		Address: 1 Road 3263						Analysis and Method			State	
City, State, Zip: Farmington, NM 87401		City, State, Zip: Aztec, NM 87410									NM CO UT AZ	
Phone: 505-564-2281		Phone: 505-632-3476										
Email: tknight@animasenvironmental.com		Email: aarchuleta@drilc.com										

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	Remarks
15:27	11-5-18	Soil	2	SC-11	11	X	X	X			X		
15:29	11-5-18	Soil	2	SC-12	12	X	X	X			X		

Additional Instructions: vis. ice in cooler - y

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: Sherraden Jaquez

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	Lab Use Only
<u>[Signature]</u>	11-6-18	10:17	<u>[Signature]</u>	11-6-18	10:17	Received on ice: <u>Y</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
						AVG Temp °C <u>40</u>

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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Page 21 of 21



AES Note: Samples utilized for closure are highlighted.

Analytical Report

Report Summary

Client: Animas Environmental Services
Chain Of Custody Number:
Samples Received: 11/16/2018 11:43:00AM
Job Number: 99083-0001
Work Order: P811050
Project Name/Location: EW Mudge 8

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman'.

Date: 11/26/18

Walter Hinchman, Laboratory Director

A handwritten signature in black ink, appearing to read 'Tim Cain'.

Date: 11/26/18

Tim Cain, Project Manager



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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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/26/18 15:13

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-9	P811050-01A	Soil	11/16/18	11/16/18	Glass Jar, 4 oz.
	P811050-01B	Soil	11/16/18	11/16/18	Glass Jar, 4 oz.
SC-10 WEST	P811050-02A	Soil	11/16/18	11/16/18	Glass Jar, 4 oz.
	P811050-02B	Soil	11/16/18	11/16/18	Glass Jar, 4 oz.

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/26/18 15:13

SC-9
P811050-01 (Solid)

Analyte	Reporting								
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1847017	11/20/18	11/20/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/20/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847006	11/19/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847006	11/19/18	11/20/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1847017	11/20/18	11/20/18	EPA 8015D	
Surrogate: n-Nonane		86.3 %		50-200	1847006	11/19/18	11/20/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	73.8	20.0	mg/kg	1	1847012	11/19/18	11/19/18	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 11/26/18 15:13

SC-10 WEST
P811050-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/20/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1847017	11 20 18	11 20 18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/20/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847006	11/19/18	11/20/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847006	11/19/18	11/20/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %		50-150	1847017	11 20 18	11 20 18	EPA 8015D	
Surrogate: n-Nonane		83.4 %		50-200	1847006	11 19 18	11 20 18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	50.2	20.0	mg/kg	1	1847012	11/19/18	11/19/18	EPA 300.0/9056A	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/26/18 15:13

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
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Batch 1847017 - Purge and Trap EPA 5030A

Blank (1847017-BLK1)

Prepared: 11/20/18 0 Analyzed: 11/20/18 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	7900		"	8000		98.8	50-150			

LCS (1847017-BS1)

Prepared: 11/20/18 0 Analyzed: 11/20/18 1

Benzene	5070	100	ug/kg	5000		101	70-130			
Toluene	5180	100	"	5000		104	70-130			
Ethylbenzene	5260	100	"	5000		105	70-130			
p,m-Xylene	10800	200	"	10000		108	70-130			
o-Xylene	5230	100	"	5000		105	70-130			
Total Xylenes	16000	100	"	15000		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7980		"	8000		99.8	50-150			

Matrix Spike (1847017-MS1)

Source: P811050-01

Prepared: 11/20/18 0 Analyzed: 11/21/18 0

Benzene	5370	100	ug/kg	5000	ND	107	54.3-133			
Toluene	5500	100	"	5000	ND	110	61.4-130			
Ethylbenzene	5600	100	"	5000	ND	112	61.4-133			
p,m-Xylene	11400	200	"	10000	ND	114	63.3-131			
o-Xylene	5520	100	"	5000	ND	110	63.3-131			
Total Xylenes	17000	100	"	15000	ND	113	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8000		"	8000		100	50-150			

Matrix Spike Dup (1847017-MSD1)

Source: P811050-01

Prepared: 11/20/18 0 Analyzed: 11/20/18 2

Benzene	5270	100	ug/kg	5000	ND	105	54.3-133	1.89	20	
Toluene	5410	100	"	5000	ND	108	61.4-130	1.76	20	
Ethylbenzene	5510	100	"	5000	ND	110	61.4-133	1.54	20	
p,m-Xylene	11300	200	"	10000	ND	113	63.3-131	1.43	20	
o-Xylene	5470	100	"	5000	ND	109	63.3-131	0.982	20	
Total Xylenes	16800	100	"	15000	ND	112	63.3-131	1.28	20	
Surrogate: 4-Bromochlorobenzene-PID	8130		"	8000		102	50-150			

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laboratory@envirotech-inc.com



Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/26/18 15:13

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
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Batch 1847006 - DRO Extraction EPA 3570

Blank (1847006-BLK1)

Prepared: 11/19/18 1 Analyzed: 11/19/18 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	44.4		"	50.0		88.8	50-200			

LCS (1847006-BS1)

Prepared: 11/19/18 1 Analyzed: 11/20/18 0

Diesel Range Organics (C10-C28)	479	25.0	mg/kg	500		95.8	38-132			
Surrogate: n-Nonane	43.6		"	50.0		87.2	50-200			

Matrix Spike (1847006-MS1)

Source: P811041-01

Prepared: 11/19/18 1 Analyzed: 11/20/18 0

Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500	ND	94.7	38-132			
Surrogate: n-Nonane	39.5		"	50.0		79.0	50-200			

Matrix Spike Dup (1847006-MSD1)

Source: P811041-01

Prepared: 11/19/18 1 Analyzed: 11/20/18 0

Diesel Range Organics (C10-C28)	502	25.0	mg/kg	500	ND	100	38-132	5.92	20	
Surrogate: n-Nonane	40.5		"	50.0		80.9	50-200			

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/26/18 15:13

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 1847017 - Purge and Trap EPA 5030A

Blank (1847017-BLK1)

Prepared: 11/20/18 0 Analyzed: 11/20/18 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		"	8.00		106	50-150			

LCS (1847017-BS2)

Prepared: 11/20/18 0 Analyzed: 11/20/18 2

Gasoline Range Organics (C6-C10)	53.2	20.0	mg/kg	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		"	8.00		106	50-150			

Matrix Spike (1847017-MS2)

Source: P811050-01

Prepared: 11/20/18 0 Analyzed: 11/20/18 2

Gasoline Range Organics (C6-C10)	53.1	20.0	mg/kg	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		"	8.00		105	50-150			

Matrix Spike Dup (1847017-MSD2)

Source: P811050-01

Prepared: 11/20/18 0 Analyzed: 11/20/18 2

Gasoline Range Organics (C6-C10)	45.0	20.0	mg/kg	50.0	ND	90.1	70-130	16.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		"	8.00		107	50-150			

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/26/18 15:13

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 1847012 - Anion Extraction EPA 300.0/9056A										
Blank (1847012-BLK1)				Prepared & Analyzed: 11/19/18 1						
Chloride	ND	20.0	mg/kg							
LCS (1847012-BS1)				Prepared & Analyzed: 11/19/18 1						
Chloride	255	20.0	mg/kg	250		102	90-110			
Matrix Spike (1847012-MS1)				Source: P811050-01 Prepared & Analyzed: 11/19/18 1						
Chloride	333	20.0	mg/kg	250	73.8	104	80-120			
Matrix Spike Dup (1847012-MSD1)				Source: P811050-01 Prepared & Analyzed: 11/19/18 1						
Chloride	332	20.0	mg/kg	250	73.8	103	80-120	0.457	20	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/26/18 15:13

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.

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Project Information

Chain of Custody

Page _____ of _____

Client: AES				Report Attention Bill To DJR Attention: Amy Archuleta Address: 1 Road 3263 City, State, Zip: Aztec, NM 87410 Phone: 505-632-3476 Email: aarchuleta@djrlc.com				Lab Use Only				TAT		EPA Program			
Project: EW Mudge 8								Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA	
Project Manager: Tami Knight								P811050		99083-0001							
Address: 604 W. Pinon								Analysis and Method									
City, State, Zip: Farmington, NM 87401				State													
Phone: 505-564-2281				NM CO UT AZ													
Email: tknight@animasenvironmental.com				DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 TPH 418.1													
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number											Remarks	
9:57:00	11/16/18	Soil	2	SC-9		X	X	X			X						
10:00	11/16/18	Soil	2	SC-10		X	X	X			X						

Additional Instructions: *vis Ice included*

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: Sheraden Jaquez

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	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>[Signature]</u>	11-16-18	11:43	<u>[Signature]</u>	11/16/18	11:43	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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.



AES Note: Samples utilized for closure are highlighted.

Analytical Report

Report Summary

Client: Animas Environmental Services
Chain Of Custody Number:
Samples Received: 1/10/2019 10:48:00AM
Job Number: 99083-0001
Work Order: P901016
Project Name/Location: EW Mudge 8

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', written over a horizontal line.

Walter Hinchman, Laboratory Director

Date: 1/14/19

A handwritten signature in black ink, appearing to read 'Tim Cain', written over a horizontal line.

Tim Cain, Project Manager

Date: 1/14/19



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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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 01/14/19 16:35

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-1 EAST	P901016-01A	Soil	01/10/19	01/10/19	Glass Jar, 4 oz.
	P901016-01B	Soil	01/10/19	01/10/19	Glass Jar, 4 oz.
SC-2	P901016-02A	Soil	01/10/19	01/10/19	Glass Jar, 4 oz.
	P901016-02B	Soil	01/10/19	01/10/19	Glass Jar, 4 oz.
SC-3	P901016-03A	Soil	01/10/19	01/10/19	Glass Jar, 4 oz.
	P901016-03B	Soil	01/10/19	01/10/19	Glass Jar, 4 oz.
SC-4	P901016-04A	Soil	01/10/19	01/10/19	Glass Jar, 4 oz.
	P901016-04B	Soil	01/10/19	01/10/19	Glass Jar, 4 oz.
SC-5	P901016-05A	Soil	01/10/19	01/10/19	Glass Jar, 4 oz.
	P901016-05B	Soil	01/10/19	01/10/19	Glass Jar, 4 oz.

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 01/14/19 16:35

SC-1 EAST
P901016-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1902030	01/10/19	01/11/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1902030	01/10/19	01/11/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1902021	01/10/19	01/10/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1902021	01/10/19	01/10/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %		50-150	1902030	01/10/19	01/11/19	EPA 8015D	
Surrogate: n-Nonane		89.3 %		50-200	1902021	01/10/19	01/10/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	31.2	20.0	mg/kg	1	1902025	01/10/19	01/10/19	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 01/14/19 16:35

SC-2
P901016-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1902030	01/10/19	01/11/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1902030	01/10/19	01/11/19	EPA 8015D	
Diesel Range Organics (C10-C28)	78.7	25.0	mg/kg	1	1902021	01/10/19	01/10/19	EPA 8015D	
Oil Range Organics (C28-C40+)	165	50.0	mg/kg	1	1902021	01/10/19	01/10/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %		50-150	1902030	01/10/19	01/11/19	EPA 8015D	
Surrogate: n-Nonane		106 %		50-200	1902021	01/10/19	01/10/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	72.2	20.0	mg/kg	1	1902025	01/10/19	01/10/19	EPA 300.0/9056A	

Sample Failed. More Excavation occurred.

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 01/14/19 16:35

SC-3
P901016-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1902030	01 10 19	01 11 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1902030	01/10/19	01/11/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1902021	01/10/19	01/10/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1902021	01/10/19	01/10/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %		50-150	1902030	01 10 19	01 11 19	EPA 8015D	
Surrogate: n-Nonane		88.3 %		50-200	1902021	01 10 19	01 10 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	101	20.0	mg/kg	1	1902025	01/10/19	01/10/19	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 01/14/19 16:35

SC-4
P901016-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1902030	01 10 19	01 11 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1902030	01/10/19	01/11/19	EPA 8015D	
Diesel Range Organics (C10-C28)	145	25.0	mg/kg	1	1902021	01/10/19	01/10/19	EPA 8015D	
Oil Range Organics (C28-C40+)	208	50.0	mg/kg	1	1902021	01/10/19	01/10/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %		50-150	1902030	01 10 19	01 11 19	EPA 8015D	
Surrogate: n-Nonane		93.6 %		50-200	1902021	01 10 19	01 10 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	192	20.0	mg/kg	1	1902025	01/10/19	01/10/19	EPA 300.0/9056A	

Sample Failed. More Excavation occurred.

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 01/14/19 16:35

SC-5
P901016-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1902030	01/10/19	01/11/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1902030	01 10 19	01 11 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1902030	01/10/19	01/11/19	EPA 8015D	
Diesel Range Organics (C10-C28)	104	25.0	mg/kg	1	1902021	01/10/19	01/10/19	EPA 8015D	
Oil Range Organics (C28-C40+)	150	50.0	mg/kg	1	1902021	01/10/19	01/10/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %		50-150	1902030	01 10 19	01 11 19	EPA 8015D	
Surrogate: n-Nonane		90.1 %		50-200	1902021	01 10 19	01 10 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	47.2	20.0	mg/kg	1	1902025	01/10/19	01/10/19	EPA 300.0/9056A	

Sample Failed. More Excavation occurred.

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
01/14/19 16:35

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
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Batch 1902030 - Purge and Trap EPA 5030A

Blank (1902030-BLK1)

Prepared: 01/10/19 1 Analyzed: 01/11/19 0

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	8170		"	8000		102	50-150			

LCS (1902030-BS1)

Prepared: 01/10/19 1 Analyzed: 01/11/19 0

Benzene	5060	100	ug/kg	5000		101	70-130			
Toluene	5090	100	"	5000		102	70-130			
Ethylbenzene	5160	100	"	5000		103	70-130			
p,m-Xylene	10500	200	"	10000		105	70-130			
o-Xylene	5120	100	"	5000		102	70-130			
Total Xylenes	15700	100	"	15000		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8260		"	8000		103	50-150			

Matrix Spike (1902030-MS1)

Source: P901014-01

Prepared: 01/10/19 1 Analyzed: 01/11/19 0

Benzene	5130	100	ug/kg	5000	ND	103	54.3-133			
Toluene	5150	100	"	5000	ND	103	61.4-130			
Ethylbenzene	5210	100	"	5000	ND	104	61.4-133			
p,m-Xylene	10600	200	"	10000	ND	106	63.3-131			
o-Xylene	5170	100	"	5000	ND	103	63.3-131			
Total Xylenes	15800	100	"	15000	ND	105	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8270		"	8000		103	50-150			

Matrix Spike Dup (1902030-MSD1)

Source: P901014-01

Prepared: 01/10/19 1 Analyzed: 01/11/19 0

Benzene	4120	100	ug/kg	5000	ND	82.5	54.3-133	21.8	20	D1
Toluene	4110	100	"	5000	ND	82.3	61.4-130	22.4	20	D1
Ethylbenzene	4140	100	"	5000	ND	82.8	61.4-133	22.8	20	D1
p,m-Xylene	8520	200	"	10000	ND	85.2	63.3-131	22.0	20	D1
o-Xylene	4230	100	"	5000	ND	84.6	63.3-131	20.0	20	
Total Xylenes	12800	100	"	15000	ND	85.0	63.3-131	21.3	20	D1
Surrogate: 4-Bromochlorobenzene-PID	8300		"	8000		104	50-150			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: EW Mudge 8 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 01/14/19 16:35
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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
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Batch 1902021 - DRO Extraction EPA 3570

Blank (1902021-BLK1)

Prepared: 01/09/19 | Analyzed: 01/09/19 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	47.0		"	50.0		94.0	50-200			

LCS (1902021-BS1)

Prepared: 01/09/19 | Analyzed: 01/09/19 2

Diesel Range Organics (C10-C28)	442	25.0	mg/kg	500		88.5	38-132			
Surrogate: n-Nonane	48.1		"	50.0		96.1	50-200			

Matrix Spike (1902021-MS1)

Source: P901010-01

Prepared: 01/09/19 | Analyzed: 01/09/19 2

Diesel Range Organics (C10-C28)	447	25.0	mg/kg	500	ND	89.4	38-132			
Surrogate: n-Nonane	48.7		"	50.0		97.3	50-200			

Matrix Spike Dup (1902021-MSD1)

Source: P901010-01

Prepared: 01/09/19 | Analyzed: 01/10/19 0

Diesel Range Organics (C10-C28)	449	25.0	mg/kg	500	ND	89.8	38-132	0.382	20	
Surrogate: n-Nonane	48.6		"	50.0		97.2	50-200			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: EW Mudge 8 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 01/14/19 16:35
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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
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Batch 1902030 - Purge and Trap EPA 5030A

Blank (1902030-BLK1)

Prepared: 01/10/19 1 Analyzed: 01/11/19 0

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.42		"	8.00		105	50-150			

LCS (1902030-BS2)

Prepared: 01/10/19 1 Analyzed: 01/11/19 0

Gasoline Range Organics (C6-C10)	40.2	20.0	mg/kg	50.0		80.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		"	8.00		106	50-150			

Matrix Spike (1902030-MS2)

Source: P901014-01

Prepared: 01/10/19 1 Analyzed: 01/11/19 0

Gasoline Range Organics (C6-C10)	41.9	20.0	mg/kg	50.0	ND	83.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.44		"	8.00		105	50-150			

Matrix Spike Dup (1902030-MSD2)

Source: P901014-01

Prepared: 01/10/19 1 Analyzed: 01/11/19 0

Gasoline Range Organics (C6-C10)	43.5	20.0	mg/kg	50.0	ND	87.0	70-130	3.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.60		"	8.00		107	50-150			

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
01/14/19 16:35

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 1902025 - Anion Extraction EPA 300.0/9056A										
Blank (1902025-BLK1)				Prepared: 01/10/19 0 Analyzed: 01/10/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1902025-BS1)				Prepared: 01/10/19 0 Analyzed: 01/10/19 1						
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (1902025-MS1)				Source: P901014-01		Prepared: 01/10/19 0 Analyzed: 01/10/19 1				
Chloride	257	20.0	mg/kg	250	ND	103	80-120			
Matrix Spike Dup (1902025-MSD1)				Source: P901014-01		Prepared: 01/10/19 0 Analyzed: 01/10/19 1				
Chloride	258	20.0	mg/kg	250	ND	103	80-120	0.451	20	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
01/14/19 16:35

Notes and Definitions

D1 Duplicates or Matrix Spike Duplicates or Laboratory Control Sample Duplicates Relative Percent Difference is outside of control limits.

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.

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Project Information

Chain of Custody

Page 1 of 1

Client: AES		Report Attention		Lab Use Only		TAT		EPA Program								
Project: EW Mudge 8		Bill To DJR		Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA				
Project Manager: Tami Knight		Attention: Amy Archuleta		P901016		99083-0001			X							
Address: 604 W. Pinon		Address: 1 Road 3263		Analysis and Method								State				
City, State, Zip: Farmington, NM 87401		City, State, Zip: Aztec, NM 87410		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1			NM	CO	UT	AZ
Phone: 505-564-2281		Phone: 505-632-3476														
Email: tknight@animasenvironmental.com		Email: aarchuleta@djrlc.com											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
09:29	1-10-19	Soil	2	SC-1	1	X	X	X			X						
09:30				SC-2	2	X	X	X			X						
09:31				SC-3	3	X	X	X			X						
09:22				SC-4	4	X	X	X			X						
09:26				SC-5	5	X	X	X			X						

Additional Instructions:

Vis 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: Sherridan Jaquez

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	Lab Use Only
	1-10-19	10:46		1-10-19	10:48	Received on ice: <u>Y</u> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1
						AVG Temp °C <u>4</u>
						T2
						T3

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.



AES Note: Samples utilized for closure are highlighted.

Analytical Report

Report Summary

Client: DJR Operating, LLC

Chain Of Custody Number:

Samples Received: 1/17/2019 12:00:00PM

Job Number: 17035-0028

Work Order: P901024

Project Name/Location: EW Mudge 8

Report Reviewed By:

Date: 1/22/19

Walter Hinchman, Laboratory Director

Date: 1/22/19

Tim Cain, Project Manager



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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Envirotech, Inc. currently holds the appropriate and available Utah TNi certification NM009792018-1 for the data reported.

DJR Operating, LLC
 1 Rd 3263
 Aztec NM, 87410

 Project Name: EW Mudge 8
 Project Number: 17035-0028
 Project Manager: Amy Archuleta

Reported:
 01/22/19 11:32

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-6 (Bottom)	P901024-01A	Soil	01/17/19	01/17/19	Glass Jar, 4 oz.
	P901024-01B	Soil	01/17/19	01/17/19	Glass Jar, 4 oz.
SC-7 (West)	P901024-02A	Soil	01/17/19	01/17/19	Glass Jar, 4 oz.
	P901024-02B	Soil	01/17/19	01/17/19	Glass Jar, 4 oz.
SC-8 (South)	P901024-03A	Soil	01/17/19	01/17/19	Glass Jar, 4 oz.
	P901024-03B	Soil	01/17/19	01/17/19	Glass Jar, 4 oz.
SC-9 (East)	P901024-04A	Soil	01/17/19	01/17/19	Glass Jar, 4 oz.
	P901024-04B	Soil	01/17/19	01/17/19	Glass Jar, 4 oz.

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DJR Operating, LLC
 1 Rd 3263
 Aztec NM, 87410

 Project Name: EW Mudge 8
 Project Number: 17035-0028
 Project Manager: Amy Archuleta

Reported:
 01/22/19 11:32

SC-6 (Bottom)
P901024-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Total BTEX	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1903030	01/17/19	01/18/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1903030	01/17/19	01/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	699	50.0	mg/kg	2	1903034	01/18/19	01/18/19	EPA 8015D	
Oil Range Organics (C28-C40+)	709	100	mg/kg	2	1903034	01/18/19	01/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %		50-150	1903030	01/17/19	01/18/19	EPA 8015D	
Surrogate: n-Nonane		113 %		50-200	1903034	01/18/19	01/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	71.8	20.0	mg/kg	1	1903031	01/17/19	01/17/19	EPA 300.0/9056A	

Sample Failed. More Excavation occurred.

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DJR Operating, LLC	Project Name:	EW Mudge 8	Reported: 01/22/19 11:32
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Amy Archuleta	

SC-7 (West)
P901024-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Total BTEX	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	

Surrogate: 4-Bromochlorobenzene-*PID* 100 % 50-150 1903030 01/17/19 01/18/19 EPA 8021B

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1903030	01/17/19	01/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1903034	01/18/19	01/18/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1903034	01/18/19	01/18/19	EPA 8015D	

Surrogate: 1-Chloro-4-fluorobenzene-*FID* 106 % 50-150 1903030 01/17/19 01/18/19 EPA 8015D

Surrogate: n-Nonane 95.3 % 50-200 1903034 01/18/19 01/18/19 EPA 8015D

Anions by 300.0/9056A

Chloride	20.8	20.0	mg/kg	1	1903031	01/17/19	01/17/19	EPA 300.0/9056A	
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DJR Operating, LLC
 1 Rd 3263
 Aztec NM, 87410

 Project Name: EW Mudge 8
 Project Number: 17035-0028
 Project Manager: Amy Archuleta

Reported:
 01/22/19 11:32

SC-8 (South)
P901024-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Total BTEX	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PIID		101 %		50-150	1903030	01/17/19	01/18/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1903030	01/17/19	01/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	76.0	25.0	mg/kg	1	1903034	01/18/19	01/21/19	EPA 8015D	
Oil Range Organics (C28-C40+)	103	50.0	mg/kg	1	1903034	01/18/19	01/21/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %		50-150	1903030	01/17/19	01/18/19	EPA 8015D	
Surrogate: n-Nonane		110 %		50-200	1903034	01/18/19	01/21/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	48.4	20.0	mg/kg	1	1903031	01/17/19	01/17/19	EPA 300.0/9056A	

Sample Failed. More Excavation occurred.

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DJR Operating, LLC
 1 Rd 3263
 Aztec NM, 87410

 Project Name: EW Mudge 8
 Project Number: 17035-0028
 Project Manager: Amy Archuleta

Reported:
 01/22/19 11:32

SC-9 (East)
P901024-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Total BTEX	ND	25.0	ug/kg	1	1903030	01/17/19	01/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %		50-150	1903030	01/17/19	01/18/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1903030	01/17/19	01/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	681	25.0	mg/kg	1	1903034	01/18/19	01/21/19	EPA 8015D	
Oil Range Organics (C28-C40+)	599	50.0	mg/kg	1	1903034	01/18/19	01/21/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %		50-150	1903030	01/17/19	01/18/19	EPA 8015D	
Surrogate: n-Nonane		112 %		50-200	1903034	01/18/19	01/21/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	125	20.0	mg/kg	1	1903031	01/17/19	01/17/19	EPA 300.0/9056A	

Sample Failed. More Excavation occurred.

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DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: EW Mudge 8 Project Number: 17035-0028 Project Manager: Amy Archuleta	Reported: 01/22/19 11:32
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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
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Batch 1903030 - Purge and Trap EPA 5030A

Blank (1903030-BLK1)

Prepared: 01/17/19 1 Analyzed: 01/18/19 1

Benzene	ND	25.0	ug/kg							
Toluene	ND	25.0	"							
Ethylbenzene	ND	25.0	"							
p,m-Xylene	ND	50.0	"							
o-Xylene	ND	25.0	"							
Total Xylenes	ND	25.0	"							
Total BTEX	ND	25.0	"							
Surrogate: 4-Bromochlorobenzene-PID	7810		"	8000		97.6	50-150			

LCS (1903030-BS1)

Prepared: 01/17/19 1 Analyzed: 01/18/19 1

Benzene	4510	25.0	ug/kg	5000		90.2	70-130			
Toluene	4570	25.0	"	5000		91.3	70-130			
Ethylbenzene	4620	25.0	"	5000		92.4	70-130			
p,m-Xylene	9490	50.0	"	10000		94.9	70-130			
o-Xylene	4580	25.0	"	5000		91.6	70-130			
Total Xylenes	14100	25.0	"	15000		93.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7850		"	8000		98.2	50-150			

Matrix Spike (1903030-MS1)

Source: P901023-01

Prepared: 01/17/19 1 Analyzed: 01/18/19 1

Benzene	4580	25.0	ug/kg	5000	ND	91.6	54.3-133			
Toluene	4620	25.0	"	5000	ND	92.5	61.4-130			
Ethylbenzene	4670	25.0	"	5000	ND	93.4	61.4-133			
p,m-Xylene	9570	50.0	"	10000	ND	95.7	63.3-131			
o-Xylene	4620	25.0	"	5000	ND	92.4	63.3-131			
Total Xylenes	14200	25.0	"	15000	ND	94.6	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8010		"	8000		100	50-150			

Matrix Spike Dup (1903030-MSD1)

Source: P901023-01

Prepared: 01/17/19 1 Analyzed: 01/18/19 2

Benzene	4280	25.0	ug/kg	5000	ND	85.6	54.3-133	6.81	20	
Toluene	4320	25.0	"	5000	ND	86.4	61.4-130	6.75	20	
Ethylbenzene	4380	25.0	"	5000	ND	87.6	61.4-133	6.31	20	
p,m-Xylene	9000	50.0	"	10000	ND	90.0	63.3-131	6.07	20	
o-Xylene	4360	25.0	"	5000	ND	87.2	63.3-131	5.85	20	
Total Xylenes	13400	25.0	"	15000	ND	89.1	63.3-131	6.00	20	
Surrogate: 4-Bromochlorobenzene-PID	8000		"	8000		100	50-150			

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DJR Operating, LLC	Project Name:	EW Mudge 8	Reported: 01/22/19 11:32
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Amy Archuleta	

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
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Batch 1903030 - Purge and Trap EPA 5030A

Blank (1903030-BLK1)

Prepared: 01/17/19 1 Analyzed: 01/18/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.68		"	8.00		109	50-150			

LCS (1903030-BS2)

Prepared: 01/17/19 1 Analyzed: 01/18/19 1

Gasoline Range Organics (C6-C10)	44.5	20.0	mg/kg	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		"	8.00		109	50-150			

Matrix Spike (1903030-MS2)

Source: P901023-01

Prepared: 01/17/19 1 Analyzed: 01/18/19 2

Gasoline Range Organics (C6-C10)	48.0	20.0	mg/kg	50.0	ND	95.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.60		"	8.00		108	50-150			

Matrix Spike Dup (1903030-MSD2)

Source: P901023-01

Prepared: 01/17/19 1 Analyzed: 01/18/19 2

Gasoline Range Organics (C6-C10)	46.9	20.0	mg/kg	50.0	ND	93.7	70-130	2.32	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.64		"	8.00		108	50-150			

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DJR Operating, LLC	Project Name:	EW Mudge 8	Reported: 01/22/19 11:32
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Amy Archuleta	

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
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Batch 1903034 - DRO Extraction EPA 3570

Blank (1903034-BLK1)

Prepared & Analyzed: 01/18/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	51.5		"	50.0		103	50-200			

LCS (1903034-BS1)

Prepared & Analyzed: 01/18/19 1

Diesel Range Organics (C10-C28)	465	25.0	mg/kg	500		93.0	38-132			
Surrogate: n-Nonane	50.1		"	50.0		100	50-200			

Matrix Spike (1903034-MS1)

Source: P901023-01

Prepared & Analyzed: 01/18/19 1

Diesel Range Organics (C10-C28)	480	25.0	mg/kg	500	ND	96.0	38-132			
Surrogate: n-Nonane	51.5		"	50.0		103	50-200			

Matrix Spike Dup (1903034-MSD1)

Source: P901023-01

Prepared & Analyzed: 01/18/19 1

Diesel Range Organics (C10-C28)	485	25.0	mg/kg	500	ND	97.1	38-132	1.08	20	
Surrogate: n-Nonane	47.8		"	50.0		95.6	50-200			

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DJR Operating, LLC	Project Name:	EW Mudge 8	Reported: 01/22/19 11:32
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Amy Archuleta	

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
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Batch 1903031 - Anion Extraction EPA 300.0/9056A

Blank (1903031-BLK1)			Prepared & Analyzed: 01/17/19 1							
Chloride	ND	20.0	mg/kg							
LCS (1903031-BS1)			Prepared & Analyzed: 01/17/19 1							
Chloride	258	20.0	mg/kg	250		103	90-110			
Matrix Spike (1903031-MS1)			Source: P901023-01		Prepared & Analyzed: 01/17/19 1					
Chloride	263	20.0	mg/kg	250	ND	105	80-120			
Matrix Spike Dup (1903031-MSD1)			Source: P901023-01		Prepared & Analyzed: 01/17/19 1					
Chloride	263	20.0	mg/kg	250	ND	105	80-120	0.0722	20	

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DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Amy Archuleta

Reported:
01/22/19 11:32

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.

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Client: <u>NSP Operating LLC</u>		Report Attention		Lab Use Only		TAT		EPA Program												
Project: <u>FW Mudge 8</u>		Report due by: <u>Tuesday 11/22/19</u>		Lab WO# <u>P 901024</u>		Job Number <u>17035-0028</u>		1D	3D	RCRA	CWA	SDWA								
Project Manager: <u>A. Archuleta</u>		Attention: <u>Amey Archuleta</u>		Address: <u>1 Road 3263</u>		Analysis and Method		State												
Address: <u>1 Road 3263</u>		City, State, Zip <u>Las Vegas, NM 87410</u>		Phone: <u>505-320-1617</u>		Email: <u>archuleta@digillc.com</u>		<table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>AZ</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>					NM	CO	UT	AZ				
NM	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
10:00 am	11/17	S	2	SC-6 (Bottom)	1	X	X	X			X		
10:30	11/17	S	2	SC-7 (West)	2	X	X	X			X		
10:45	11/17	S	2	SC-8 (South)	3	X	X	X			X		
11:00	11/17	S	2	SC-9 (East)	4	X	X	X			X		

Additional Instructions:

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

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	Lab Use Only
<u>[Signature]</u>	11/17/19	12:00 pm	<u>[Signature]</u>	11/17/19	12:00 pm	Received on ice: Y / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 <u>11.4</u> T2 <u>10.4</u> T3 <u>11.9</u>
						AVG Temp °C <u>11.2</u>

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

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Ph: 505/632-0615 Fr: 505/632-1865

Ph: 970/259-0615 Fr: 800/362-1879





AES Note: Samples utilized for closure are highlighted.

Analytical Report

Report Summary

Client: DJR Operating, LLC

Chain Of Custody Number:

Samples Received: 1/25/2019 3:10:00PM

Job Number: 17035-0028

Work Order: P901039

Project Name/Location: EW Mudge 8

Report Reviewed By:

Date: 1/30/19

Walter Hinchman, Laboratory Director

Date: 1/30/19

Tim Cain, Project Manager



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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Envirotech, Inc, currently holds the appropriate and available Utah TNi certification NM009792018-1 for the data reported.

DJR Operating, LLC
 1 Rd 3263
 Aztec NM, 87410

 Project Name: EW Mudge 8
 Project Number: 17035-0028
 Project Manager: Amy Archuleta

Reported:
 01/30/19 15:00

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-10 (Bottom West)	P901039-01A	Soil	01/25/19	01/25/19	Glass Jar, 4 oz.
SC-11 (Bottom East)	P901039-02A	Soil	01/25/19	01/25/19	Glass Jar, 4 oz.
SC-12 (South Wall)	P901039-03A	Soil	01/25/19	01/25/19	Glass Jar, 4 oz.

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DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: EW Mudge 8 Project Number: 17035-0028 Project Manager: Amy Archuleta	Reported: 01/30/19 15:00
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SC-10 (Bottom West)
P901039-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Total BTEX	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.2 %		50-150	1905005	01/28/19	01/28/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1905005	01/28/19	01/28/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1905004	01/28/19	01/28/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1905004	01/28/19	01/28/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %		50-150	1905005	01/28/19	01/28/19	EPA 8015D	
Surrogate: n-Nonane		96.9 %		50-200	1905004	01/28/19	01/28/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	31.0	20.0	mg/kg	1	1905002	01/28/19	01/28/19	EPA 300.0/9056A	

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DJR Operating, LLC
 1 Rd 3263
 Aztec NM, 87410

 Project Name: EW Mudge 8
 Project Number: 17035-0028
 Project Manager: Amy Archuleta

Reported:
 01/30/19 15:00

SC-11 (Bottom East)
P901039-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatile Organics by EPA 8021</u>									
Benzene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Total BTEX	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %		50-150	1905005	01 28 19	01 28 19	EPA 8021B	
<u>Nonhalogenated Organics by 8015</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1905005	01/28/19	01/28/19	EPA 8015D	
Diesel Range Organics (C10-C28)	101	25.0	mg/kg	1	1905004	01/28/19	01/28/19	EPA 8015D	
Oil Range Organics (C28-C40+)	134	50.0	mg/kg	1	1905004	01/28/19	01/28/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %		50-150	1905005	01 28 19	01 28 19	EPA 8015D	
Surrogate: n-Nonane		99.7 %		50-200	1905004	01 28 19	01 28 19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	163	20.0	mg/kg	1	1905002	01/28/19	01/28/19	EPA 300.0/9056A	

Sample Failed. More Excavation occurred.

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DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Amy Archuleta

Reported:
01/30/19 15:00

SC-12 (South Wall)
P901039-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Total BTEX	ND	25.0	ug/kg	1	1905005	01/28/19	01/28/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %		50-150	1905005	01 28 19	01 28 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1905005	01/28/19	01/28/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1905004	01/28/19	01/28/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1905004	01/28/19	01/28/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %		50-150	1905005	01 28 19	01 28 19	EPA 8015D	
Surrogate: n-Nonane		97.6 %		50-200	1905004	01 28 19	01 28 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	43.3	20.0	mg/kg	1	1905002	01/28/19	01/28/19	EPA 300.0/9056A	

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DJR Operating, LLC	Project Name:	EW Mudge 8	Reported: 01/30/19 15:00
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Amy Archuleta	

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
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Batch 1905005 - Purge and Trap EPA 5030A

Blank (1905005-BLK1)

Prepared & Analyzed: 01/28/19 1

Benzene	ND	25.0	ug/kg							
Toluene	ND	25.0	"							
Ethylbenzene	ND	25.0	"							
p,m-Xylene	ND	50.0	"							
o-Xylene	ND	25.0	"							
Total Xylenes	ND	25.0	"							
Total BTEX	ND	25.0	"							
Surrogate: 4-Bromochlorobenzene-PID	7870		"	8000		98.3	50-150			

LCS (1905005-BS1)

Prepared & Analyzed: 01/28/19 1

Benzene	4620	25.0	ug/kg	5000		92.5	70-130			
Toluene	4680	25.0	"	5000		93.7	70-130			
Ethylbenzene	4740	25.0	"	5000		94.7	70-130			
p,m-Xylene	9730	50.0	"	10000		97.3	70-130			
o-Xylene	4700	25.0	"	5000		94.0	70-130			
Total Xylenes	14400	25.0	"	15000		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7920		"	8000		99.0	50-150			

Matrix Spike (1905005-MS1)

Source: P901038-01

Prepared & Analyzed: 01/28/19 1

Benzene	4860	25.0	ug/kg	5000	158	94.0	54.3-133			
Toluene	8410	25.0	"	5000	3180	105	61.4-130			
Ethylbenzene	5540	25.0	"	5000	784	95.1	61.4-133			
p,m-Xylene	14800	50.0	"	10000	6050	87.2	63.3-131			
o-Xylene	6310	25.0	"	5000	1610	94.1	63.3-131			
Total Xylenes	21100	25.0	"	15000	7660	89.5	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7670		"	8000		95.9	50-150			

Matrix Spike Dup (1905005-MSD1)

Source: P901038-01

Prepared & Analyzed: 01/28/19 1

Benzene	4460	25.0	ug/kg	5000	158	86.0	54.3-133	8.64	20	
Toluene	8030	25.0	"	5000	3180	97.2	61.4-130	4.60	20	
Ethylbenzene	5110	25.0	"	5000	784	86.6	61.4-133	8.01	20	
p,m-Xylene	14000	50.0	"	10000	6050	79.7	63.3-131	5.19	20	
o-Xylene	5930	25.0	"	5000	1610	86.4	63.3-131	6.28	20	
Total Xylenes	19900	25.0	"	15000	7660	81.9	63.3-131	5.52	20	
Surrogate: 4-Bromochlorobenzene-PID	7770		"	8000		97.2	50-150			

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DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: EW Mudge 8 Project Number: 17035-0028 Project Manager: Amy Archuleta	Reported: 01/30/19 15:00
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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 1905004 - DRO Extraction EPA 3570										
Blank (1905004-BLK1)				Prepared & Analyzed: 01/28/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	49.0		"	50.0		98.0	50-200			
LCS (1905004-BS1)				Prepared & Analyzed: 01/28/19 1						
Diesel Range Organics (C10-C28)	441	25.0	mg/kg	500		88.2	38-132			
Surrogate: n-Nonane	48.2		"	50.0		96.4	50-200			
Matrix Spike (1905004-MS1)				Source: P901039-01		Prepared & Analyzed: 01/28/19 1				
Diesel Range Organics (C10-C28)	470	25.0	mg/kg	500	ND	94.1	38-132			
Surrogate: n-Nonane	46.0		"	50.0		92.0	50-200			
Matrix Spike Dup (1905004-MSD1)				Source: P901039-01		Prepared & Analyzed: 01/28/19 1				
Diesel Range Organics (C10-C28)	483	25.0	mg/kg	500	ND	96.6	38-132	2.65	20	
Surrogate: n-Nonane	51.1		"	50.0		102	50-200			

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DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Amy Archuleta

Reported:
01/30/19 15:00

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
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Batch 1905005 - Purge and Trap EPA 5030A

Blank (1905005-BLK1)

Prepared & Analyzed: 01/28/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.39		"	8.00		105	50-150			

LCS (1905005-BS2)

Prepared & Analyzed: 01/28/19 1

Gasoline Range Organics (C6-C10)	48.7	20.0	mg/kg	50.0		97.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.56		"	8.00		107	50-150			

Matrix Spike (1905005-MS2)

Source: P901038-01

Prepared & Analyzed: 01/28/19 1

Gasoline Range Organics (C6-C10)	164	20.0	mg/kg	50.0	127	73.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.19		"	8.00		115	50-150			

Matrix Spike Dup (1905005-MSD2)

Source: P901038-01

Prepared & Analyzed: 01/28/19 1

Gasoline Range Organics (C6-C10)	154	20.0	mg/kg	50.0	127	52.7	70-130	6.46	20	SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.00		"	8.00		113	50-150			

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DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Amy Archuleta

Reported:
01/30/19 15:00

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 1905002 - Anion Extraction EPA 300.0/9056A										
Blank (1905002-BLK1)				Prepared: 01/28/19 0 Analyzed: 01/28/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1905002-BS1)				Prepared: 01/28/19 0 Analyzed: 01/28/19 1						
Chloride	242	20.0	mg/kg	250		96.8	90-110			
Matrix Spike (1905002-MS1)				Source: P901038-01		Prepared: 01/28/19 0 Analyzed: 01/28/19 1				
Chloride	732	20.0	mg/kg	250	570	65.0	80-120			SPK1
Matrix Spike Dup (1905002-MSD1)				Source: P901038-01		Prepared: 01/28/19 0 Analyzed: 01/28/19 1				
Chloride	775	20.0	mg/kg	250	570	82.4	80-120	5.77	20	

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DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Amy Archuleta

Reported:
01/30/19 15:00

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.
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.

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Client: NSP Operating LLC
 Project: EW Hedges
 Project Manager: Amy Archuleta
 Address: 1 Road 3263
 City, State, Zip: Albuquerque NM 87110
 Phone: 505-320-6917
 Email: amarchuleta@digilife.com

Report Attention
 Report due by: Wednesday 1/30/19
 Attention: Amy Archuleta
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: _____

Lab Use Only
 Lab WO# P901039 Job Number 17036-0028
 TAT 1D 3D X
 EPA Program RCRA CWA SDWA

Analysis and Method
 DRO/ORO by 8015 X GRO/DRO by 8015 X BTEX by 8021 X VOC by 8260 X Metals 6010 X Chloride 300.0 X TPH 418.1 X
 State NM CO UT AZ
 Remarks

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
2:00 pm	1/25/19	S	1	SC-10 (Bottom West)	1	X	X	X			X		
2:15 pm	1/25/19	S	1	SC-11 (Bottom East)	2	X	X	X			X		
2:25 pm	1/25/19	S	1	SC-12 (South Wall)	3	X	X	X			X		

Additional Instructions:

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) <u>[Signature]</u>	Date <u>1/25/19</u>	Time <u>1510</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>1/25/19</u>	Time <u>1510</u>	Lab Use Only Received on ice: <u>Y / N</u>
Relinquished by: (Signature) _____	Date _____	Time _____	Received by: (Signature) _____	Date _____	Time _____	T1 <u>10.1</u> T2 <u>9.3</u> T3 <u>9.9</u> AVG Temp °C _____

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.



AES Note: Samples utilized for closure are highlighted.

Analytical Report

Report Summary

Client: DJR Operating, LLC

Chain Of Custody Number:

Samples Received: 2/7/2019 4:45:00PM

Job Number: 17035-0028

Work Order: P902009

Project Name/Location: EW Mudge 8

Report Reviewed By:

Date: 2/13/19

Walter Hinchman, Laboratory Director

Date: 2/13/19

Tim Cain, Project Manager



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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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Amy Archuleta

Reported:
02/13/19 08:58

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-13	P902009-01A	Soil	02/07/19	02/07/19	Glass Jar, 4 oz.
	P902009-01B	Soil	02/07/19	02/07/19	Glass Jar, 4 oz.
SC-14	P902009-02A	Soil	02/07/19	02/07/19	Glass Jar, 4 oz.
	P902009-02B	Soil	02/07/19	02/07/19	Glass Jar, 4 oz.
SC-15	P902009-03A	Soil	02/07/19	02/07/19	Glass Jar, 4 oz.
	P902009-03B	Soil	02/07/19	02/07/19	Glass Jar, 4 oz.

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DJR Operating, LLC	Project Name:	EW Mudge 8	Reported: 02/13/19 08:58
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Amy Archuleta	

SC-13
P902009-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1906020	02 08 19	02 08 19	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1906020	02/08/19	02/08/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1907006	02/11/19	02/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1907006	02/11/19	02/11/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.0 %		50-150	1906020	02 08 19	02 08 19	EPA 8015D	
Surrogate: n-Nonane		93.5 %		50-200	1907006	02 11 19	02 11 19	EPA 8015D	

Anions by 300.0/9056A

Chloride	57.7	20.0	mg/kg	1	1906031	02/08/19	02/08/19	EPA 300.0/9056A	
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DJR Operating, LLC
 I Rd 3263
 Aztec NM, 87410

 Project Name: EW Mudge 8
 Project Number: 17035-0028
 Project Manager: Amy Archuleta

Reported:
 02/13/19 08:58

SC-14
P902009-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1906020	02 08 19	02 08 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1906020	02/08/19	02/08/19	EPA 8015D	
Diesel Range Organics (C10-C28)	244	25.0	mg/kg	1	1907006	02/11/19	02/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	182	50.0	mg/kg	1	1907006	02/11/19	02/11/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %		50-150	1906020	02 08 19	02 08 19	EPA 8015D	
Surrogate: n-Nonane		107 %		50-200	1907006	02 11 19	02 11 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	96.9	20.0	mg/kg	1	1906031	02/08/19	02/08/19	EPA 300.0/9056A	

Sample Failed. More Excavation occurred.

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DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: EW Mudge 8 Project Number: 17035-0028 Project Manager: Amy Archuleta	Reported: 02/13/19 08:58
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SC-15
P902009-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatile Organics by EPA 8021

Benzene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1906020	02/08/19	02/08/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1906020	02 08 19	02 08 19	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1906020	02/08/19	02/08/19	EPA 8015D	
Diesel Range Organics (C10-C28)	135	25.0	mg/kg	1	1907006	02/11/19	02/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	95.3	50.0	mg/kg	1	1907006	02/11/19	02/11/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %		50-150	1906020	02 08 19	02 08 19	EPA 8015D	
Surrogate: n-Nonane		112 %		50-200	1907006	02 11 19	02 11 19	EPA 8015D	

Anions by 300.0/9056A

Chloride	203	20.0	mg/kg	1	1906031	02/08/19	02/08/19	EPA 300.0/9056A	
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Sample Failed. More Excavation occurred.

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DJR Operating, LLC	Project Name:	EW Mudge 8	Reported: 02/13/19 08:58
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Amy Archuleta	

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
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Batch 1906020 - Purge and Trap EPA 5030A

Blank (1906020-BLK1)

Prepared: 02/07/19 1 Analyzed: 02/08/19 1

Benzene	ND	25.0	ug/kg							
Toluene	ND	25.0	"							
Ethylbenzene	ND	25.0	"							
p,m-Xylene	ND	50.0	"							
o-Xylene	ND	25.0	"							
Total Xylenes	ND	25.0	"							

Surrogate: 4-Bromochlorobenzene-PID 8030 " 8000 100 50-150

LCS (1906020-BS1)

Prepared: 02/07/19 1 Analyzed: 02/08/19 1

Benzene	5090	25.0	ug/kg	5000		102	70-130			
Toluene	5190	25.0	"	5000		104	70-130			
Ethylbenzene	5550	25.0	"	5000		111	70-130			
p,m-Xylene	11500	50.0	"	10000		115	70-130			
o-Xylene	5300	25.0	"	5000		106	70-130			
Total Xylenes	16800	25.0	"				70-130			

Surrogate: 4-Bromochlorobenzene-PID 7970 " 8000 99.6 50-150

Matrix Spike (1906020-MS1)

Source: P902007-01

Prepared: 02/07/19 1 Analyzed: 02/08/19 1

Benzene	5120	25.0	ug/kg	5000	ND	102	54.3-133			
Toluene	5210	25.0	"	5000	ND	104	61.4-130			
Ethylbenzene	5550	25.0	"	5000	ND	111	61.4-133			
p,m-Xylene	11500	50.0	"	10000	ND	115	63.3-131			
o-Xylene	5300	25.0	"	5000	ND	106	63.3-131			
Total Xylenes	16800	25.0	"		ND		63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 8050 " 8000 101 50-150

Matrix Spike Dup (1906020-MSD1)

Source: P902007-01

Prepared: 02/07/19 1 Analyzed: 02/08/19 1

Benzene	5120	25.0	ug/kg	5000	ND	102	54.3-133	0.146	20	
Toluene	5200	25.0	"	5000	ND	104	61.4-130	0.0720	20	
Ethylbenzene	5560	25.0	"	5000	ND	111	61.4-133	0.0522	20	
p,m-Xylene	11500	50.0	"	10000	ND	115	63.3-131	0.0464	20	
o-Xylene	5310	25.0	"	5000	ND	106	63.3-131	0.0782	20	
Total Xylenes	16800	25.0	"		ND		63.3-131	0.00713	20	

Surrogate: 4-Bromochlorobenzene-PID 8110 " 8000 101 50-150

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DJR Operating, LLC	Project Name:	EW Mudge 8	Reported: 02/13/19 08:58
1 Rd 3263	Project Number:	17035-0028	
Aztec NM, 87410	Project Manager:	Amy Archuleta	

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
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Batch 1906020 - Purge and Trap EPA 5030A

Blank (1906020-BLK1)

Prepared: 02/07/19 1 Analyzed: 02/08/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		"	8.00		94.5	50-150			

LCS (1906020-BS2)

Prepared: 02/07/19 1 Analyzed: 02/08/19 1

Gasoline Range Organics (C6-C10)	58.3	20.0	mg/kg	50.0		117	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		"	8.00		94.7	50-150			

Matrix Spike (1906020-MS2)

Source: P902007-01

Prepared: 02/07/19 1 Analyzed: 02/08/19 1

Gasoline Range Organics (C6-C10)	58.7	20.0	mg/kg	50.0	ND	117	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		"	8.00		96.2	50-150			

Matrix Spike Dup (1906020-MSD2)

Source: P902007-01

Prepared: 02/07/19 1 Analyzed: 02/08/19 1

Gasoline Range Organics (C6-C10)	59.1	20.0	mg/kg	50.0	ND	118	70-130	0.719	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		"	8.00		95.6	50-150			

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DJR Operating, LLC 1 Rd 3263 Aztec NM, 87410	Project Name: EW Mudge 8 Project Number: 17035-0028 Project Manager: Amy Archuleta	Reported: 02/13/19 08:58
--	--	-----------------------------

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 1907006 - DRO Extraction EPA 3570										
Blank (1907006-BLK1)				Prepared & Analyzed: 02/11/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	49.4		"	50.0		98.8	50-200			
LCS (1907006-BS1)				Prepared & Analyzed: 02/11/19 1						
Diesel Range Organics (C10-C28)	439	25.0	mg/kg	500		87.7	38-132			
Surrogate: n-Nonane	47.4		"	50.0		94.9	50-200			
Matrix Spike (1907006-MS1)				Source: P902009-01	Prepared & Analyzed: 02/11/19 1					
Diesel Range Organics (C10-C28)	425	25.0	mg/kg	500	ND	84.9	38-132			
Surrogate: n-Nonane	44.5		"	50.0		89.0	50-200			
Matrix Spike Dup (1907006-MSD1)				Source: P902009-01	Prepared & Analyzed: 02/11/19 1					
Diesel Range Organics (C10-C28)	436	25.0	mg/kg	500	ND	87.1	38-132	2.51	20	
Surrogate: n-Nonane	46.2		"	50.0		92.5	50-200			

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DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Amy Archuleta

Reported:
02/13/19 08:58

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
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Batch 1906031 - Anion Extraction EPA 300.0/9056A

Blank (1906031-BLK1)

Prepared: 02/08/19 0 Analyzed: 02/08/19 1

Chloride	ND	20.0	mg/kg
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LCS (1906031-BS1)

Prepared: 02/08/19 0 Analyzed: 02/08/19 1

Chloride	256	20.0	mg/kg	250	103	90-110
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Matrix Spike (1906031-MS1)

Source: P902009-01

Prepared: 02/08/19 0 Analyzed: 02/08/19 1

Chloride	330	20.0	mg/kg	250	57.7	109	80-120
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Matrix Spike Dup (1906031-MSD1)

Source: P902009-01

Prepared: 02/08/19 0 Analyzed: 02/08/19 1

Chloride	319	20.0	mg/kg	250	57.7	105	80-120	3.32	20
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DJR Operating, LLC
1 Rd 3263
Aztec NM, 87410

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Amy Archuleta

Reported:
02/13/19 08:58

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.

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Client: DJR Operating
 Project: EW Mudge & B
 Project Manager: Amy Archuleta
 Address:
 City, State, Zip
 Phone:
 Email:

Report Attention
 Report due by: 5 DAY TAT
 Attention: Tami Knight
 Address: 604 W PINON
 City, State, Zip Farmington NM 87401
 Phone: 505 524 2281
 Email: tknight@animesenvironmental.com

Lab Use Only							TAT		EPA Program					
Lab WO#		Job Number					1D	3D	RCRA	CWA	SDWA			
P 902009		17035-008							X					
Analysis and Method											State			
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1					NM	CO	UT	AZ
X	X	X			X						X			
Remarks														

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number
320	2/7/19	SOIL	2	SC-6	1
323	2/7/19	SOIL	2	SC-7	2
326	2/7/19	SOIL	2	SC-8	3

Additional Instructions:

BILL TO DJR, Report to DJR & AES V's ice in cooler

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

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

Lab Use Only

Received on ice: Y/N

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

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.

Client: <u>DJR Operating</u>		Report Attention		Lab Use Only		TAT		EPA Program					
Project: <u>EW Mudge</u>		Report due by: <u>5 DAY TAT</u>		Lab WO#		Job Number		1D	3D	RCRA	CWA	SDWA	
Project Manager: <u>Amy Archuleta</u>		Attention: <u>Tami Knight</u>		<u>P 902009</u>		<u>17035-008</u>				<u>X</u>			
Address:		Address: <u>604 W PINDA</u>		Analysis and Method								State	
City, State, Zip		City, State, Zip <u>Farmington NM 87401</u>										NM CO UT AZ	
Phone:		Phone: <u>505 564 2281</u>										<u>X</u>	
Email:		Email: <u>tknight@animasenvironmental.com</u>											

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
320	2/7/19	SOIL	2	SC-6 SC-13 per Amy	1	X	X	X			X						
323	2/7/19	SOIL	2	SC-7 SC-14 2-8-2019 Rf	2	X	X	X			X						
324	2/7/19	SOIL	2	SC-8 SC-15	3	X	X	X			X						

Additional Instructions: BILL TO DJR, Report to DJR & AES v.s ice in cooler

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

Relinquished by: (Signature) <u>Tami Knight</u>		Date <u>2/7/19</u>	Time <u>1645</u>	Received by: (Signature) <u>Tami Knight</u>		Date <u>2/7/19</u>	Time <u>1645</u>	Lab Use Only	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: <u>D/N</u>	
								T1 T2 T3	
								AVG Temp °C <u>4.0</u>	

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.





AES Note: Samples utilized for closure are highlighted.

Analytical Report

Report Summary

Client: Animas Environmental Services

Chain Of Custody Number:

Samples Received: 2/14/2019 12:59:00PM

Job Number: 99083-0001

Work Order: P902028

Project Name/Location: EW Mudge 8

Report Reviewed By:

Date: 2/20/19

Walter Hinchman, Laboratory Director

Date: 2/20/19

Tim Cain, Project Manager



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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Envirotech, Inc. currently holds the appropriate and available Utah TNi certification NM009792018-1 for the data reported.

Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
02/20/19 16:15

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-16	P902028-01A	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
	P902028-01B	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
SC-17	P902028-02A	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
	P902028-02B	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
SC-18	P902028-03A	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
	P902028-03B	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
SC-19	P902028-04A	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
	P902028-04B	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
SC-20	P902028-05A	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
	P902028-05B	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
SC-21	P902028-06A	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
	P902028-06B	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
SC-22	P902028-07A	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
	P902028-07B	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
SC-23	P902028-08A	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
	P902028-08B	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
SC-24	P902028-09A	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
	P902028-09B	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
SC-25	P902028-10A	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
	P902028-10B	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
SC-26	P902028-11A	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.
	P902028-11B	Soil	02/14/19	02/14/19	Glass Jar, 4 oz.

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 02/20/19 16:15

SC-16
P902028-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1907026	02 15 19	02 19 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1907026	02/15/19	02/19/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %		50-150	1907026	02 15 19	02 19 19	EPA 8015D	
Surrogate: n-Nonane		76.3 %		50-200	1907034	02 15 19	02 18 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	25.1	20.0	mg/kg	1	1907025	02/14/19	02/15/19	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 02/20/19 16:15

SC-17
P902028-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %		50-150	1907026	02 15 19	02 18 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1907026	02/15/19	02/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.4 %		50-150	1907026	02 15 19	02 18 19	EPA 8015D	
Surrogate: n-Nonane		87.7 %		50-200	1907034	02 15 19	02 18 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1907025	02/14/19	02/15/19	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 02/20/19 16:15

SC-18
P902028-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %		50-150	1907026	02 15 19	02 18 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1907026	02/15/19	02/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	236	25.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	263	50.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.8 %		50-150	1907026	02 15 19	02 18 19	EPA 8015D	
Surrogate: n-Nonane		102 %		50-200	1907034	02 15 19	02 18 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	56.4	20.0	mg/kg	1	1907025	02/14/19	02/15/19	EPA 300.0/9056A	

Sample Failed. More Excavation occurred.

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
02/20/19 16:15

SC-19

P902028-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.2 %		50-150	1907026	02/15/19	02/18/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1907026	02/15/19	02/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %		50-150	1907026	02/15/19	02/18/19	EPA 8015D	
Surrogate: n-Nonane		88.0 %		50-200	1907034	02/15/19	02/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	92.2	20.0	mg/kg	1	1907025	02/14/19	02/15/19	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 02/20/19 16:15

SC-20
P902028-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %		50-150	1907026	02 15 19	02 18 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1907026	02/15/19	02/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.3 %		50-150	1907026	02 15 19	02 18 19	EPA 8015D	
Surrogate: n-Nonane		92.5 %		50-200	1907034	02 15 19	02 18 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	100	20.0	mg/kg	1	1907025	02/14/19	02/15/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: EW Mudge 8 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 02/20/19 16:15
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SC-21

P902028-06 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %		50-150	1907026	02 15 19	02 18 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1907026	02/15/19	02/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.7 %		50-150	1907026	02 15 19	02 18 19	EPA 8015D	
Surrogate: n-Nonane		97.4 %		50-200	1907034	02 15 19	02 18 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	185	20.0	mg/kg	1	1907025	02/14/19	02/15/19	EPA 300.0/9056A	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
02/20/19 16:15

SC-22
P902028-07 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.5 %		50-150	1907026	02 15 19	02 18 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1907026	02/15/19	02/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.0 %		50-150	1907026	02 15 19	02 18 19	EPA 8015D	
Surrogate: n-Nonane		79.2 %		50-200	1907034	02 15 19	02 18 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	239	20.0	mg/kg	1	1907025	02/14/19	02/15/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: EW Mudge 8 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 02/20/19 16:15
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SC-23
P902028-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1907026	02/15/19	02/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %		50-150	1907026	02/15/19	02/18/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1907026	02/15/19	02/18/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %		50-150	1907026	02/15/19	02/18/19	EPA 8015D	
Surrogate: n-Nonane		95.7 %		50-200	1907034	02/15/19	02/18/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	33.3	20.0	mg/kg	1	1907025	02/14/19	02/15/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: EW Mudge 8 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 02/20/19 16:15
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SC-24
P902028-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %		50-150	1907026	02 15 19	02 19 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1907026	02/15/19	02/19/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %		50-150	1907026	02 15 19	02 19 19	EPA 8015D	
Surrogate: n-Nonane		90.6 %		50-200	1907034	02 15 19	02 18 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1907025	02/14/19	02/15/19	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 02/20/19 16:15

SC-25
P902028-10 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PHD		100 %		50-150	1907026	02 15 19	02 19 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1907026	02/15/19	02/19/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.3 %		50-150	1907026	02 15 19	02 19 19	EPA 8015D	
Surrogate: n-Nonane		83.9 %		50-200	1907034	02 15 19	02 18 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1907025	02/14/19	02/15/19	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 99083-0001
 Project Manager: Tami Knight

Reported:
 02/20/19 16:15

SC-26
P902028-11 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Toluene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Ethylbenzene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
p,m-Xylene	ND	50.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
o-Xylene	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Total Xylenes	ND	25.0	ug/kg	1	1907026	02/15/19	02/19/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1907026	02 15 19	02 19 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1907026	02/15/19	02/19/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1907034	02/15/19	02/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %		50-150	1907026	02 15 19	02 19 19	EPA 8015D	
Surrogate: n-Nonane		90.5 %		50-200	1907034	02 15 19	02 18 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	22.2	20.0	mg/kg	1	1907025	02/14/19	02/15/19	EPA 300.0/9056A	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
02/20/19 16:15

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
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Batch 1907026 - Purge and Trap EPA 5030A

Blank (1907026-BLK1)

Prepared: 02/15/19 0 Analyzed: 02/19/19 0

Benzene	ND	25.0	ug/kg
Toluene	ND	25.0	"
Ethylbenzene	ND	25.0	"
p,m-Xylene	ND	50.0	"
o-Xylene	ND	25.0	"
Total Xylenes	ND	25.0	"

Surrogate: 4-Bromochlorobenzene-PID 8060 " 8000 101 50-150

LCS (1907026-BS1)

Prepared: 02/15/19 0 Analyzed: 02/19/19 0

Benzene	5460	25.0	ug/kg	5000	109	70-130
Toluene	5460	25.0	"	5000	109	70-130
Ethylbenzene	5780	25.0	"	5000	116	70-130
p,m-Xylene	12000	50.0	"	10000	120	70-130
o-Xylene	5510	25.0	"	5000	110	70-130
Total Xylenes	17500	25.0	"			70-130

Surrogate: 4-Bromochlorobenzene-PID 8090 " 8000 101 50-150

Matrix Spike (1907026-MS1)

Source: P902028-01

Prepared: 02/15/19 0 Analyzed: 02/18/19 1

Benzene	4790	25.0	ug/kg	5000	ND	95.8	54.3-133
Toluene	4920	25.0	"	5000	ND	98.4	61.4-130
Ethylbenzene	5290	25.0	"	5000	ND	106	61.4-133
p,m-Xylene	11000	50.0	"	10000	ND	110	63.3-131
o-Xylene	5080	25.0	"	5000	ND	102	63.3-131
Total Xylenes	16100	25.0	"		ND		63.3-131

Surrogate: 4-Bromochlorobenzene-PID 7950 " 8000 99.4 50-150

Matrix Spike Dup (1907026-MSD1)

Source: P902028-01

Prepared: 02/15/19 0 Analyzed: 02/18/19 1

Benzene	4740	25.0	ug/kg	5000	ND	94.9	54.3-133	0.972	20
Toluene	4900	25.0	"	5000	ND	98.1	61.4-130	0.320	20
Ethylbenzene	5280	25.0	"	5000	ND	106	61.4-133	0.105	20
p,m-Xylene	10900	50.0	"	10000	ND	109	63.3-131	0.260	20
o-Xylene	5080	25.0	"	5000	ND	102	63.3-131	0.161	20
Total Xylenes	16000	25.0	"		ND		63.3-131	0.229	20

Surrogate: 4-Bromochlorobenzene-PID 7940 " 8000 99.3 50-150

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
02/20/19 16:15

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
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Batch 1907026 - Purge and Trap EPA 5030A

Blank (1907026-BLK1)

Prepared: 02/15/19 0 Analyzed: 02/19/19 0

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		"	8.00		93.6	50-150			

LCS (1907026-BS2)

Prepared: 02/15/19 0 Analyzed: 02/19/19 0

Gasoline Range Organics (C6-C10)	49.1	20.0	mg/kg	50.0		98.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		"	8.00		92.2	50-150			

Matrix Spike (1907026-MS2)

Source: P902028-01

Prepared: 02/15/19 0 Analyzed: 02/18/19 1

Gasoline Range Organics (C6-C10)	50.4	20.0	mg/kg	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		"	8.00		93.2	50-150			

Matrix Spike Dup (1907026-MSD2)

Source: P902028-01

Prepared: 02/15/19 0 Analyzed: 02/18/19 2

Gasoline Range Organics (C6-C10)	49.7	20.0	mg/kg	50.0	ND	99.4	70-130	1.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		"	8.00		94.3	50-150			

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
02/20/19 16:15

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
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Batch 1907034 - DRO Extraction EPA 3570

Blank (1907034-BLK1)

Prepared: 02/15/19 1 Analyzed: 02/18/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	46.9		"	50.0		93.8	50-200			

LCS (1907034-BS1)

Prepared: 02/15/19 1 Analyzed: 02/18/19 1

Diesel Range Organics (C10-C28)	427	25.0	mg/kg	500		85.5	38-132			
Surrogate: n-Nonane	47.1		"	50.0		94.3	50-200			

Matrix Spike (1907034-MS1)

Source: P902028-01

Prepared: 02/15/19 1 Analyzed: 02/18/19 1

Diesel Range Organics (C10-C28)	414	25.0	mg/kg	500	ND	82.7	38-132			
Surrogate: n-Nonane	42.9		"	50.0		85.7	50-200			

Matrix Spike Dup (1907034-MSD1)

Source: P902028-01

Prepared: 02/15/19 1 Analyzed: 02/18/19 1

Diesel Range Organics (C10-C28)	415	25.0	mg/kg	500	ND	83.0	38-132	0.331	20	
Surrogate: n-Nonane	44.4		"	50.0		88.8	50-200			

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
02/20/19 16:15

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
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Batch 1907025 - Anion Extraction EPA 300.0/9056A

Blank (1907025-BLK1)

Prepared: 02/14/19 | Analyzed: 02/15/19 |

Chloride	ND	20.0	mg/kg
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LCS (1907025-BS1)

Prepared: 02/14/19 | Analyzed: 02/15/19 |

Chloride	256	20.0	mg/kg	250	102	90-110
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Matrix Spike (1907025-MS1)

Source: P902028-01

Prepared: 02/14/19 | Analyzed: 02/15/19 |

Chloride	284	20.0	mg/kg	250	25.1	104	80-120
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Matrix Spike Dup (1907025-MSD1)

Source: P902028-01

Prepared: 02/14/19 | Analyzed: 02/15/19 |

Chloride	288	20.0	mg/kg	250	25.1	105	80-120	1.42	20
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624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
02/20/19 16:15

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.

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

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

Project Information

Chain of Custody

Page 19 of 20

Client: <u>AES</u>		Report Attention		Lab Use Only		TAT		EPA Program				
Project: <u>EW Mudge 3</u>		Report due by: <u>2-21-19</u>		Lab WO# <u>P902028</u>		Job Number <u>991083-0001</u>		1D	3D	RCRA	CWA	SD
Project Manager: <u>Tami Knight</u>		Attention: <u>Amy Archuleta</u>										
Address: <u>604 W. Pison St</u>		Address: <u>1 Road 3263</u>										
City, State, Zip: <u>Farmington, NM 87401</u>		City, State, Zip: <u>Aztec, NM, 87410</u>										State
Phone: <u>505.564.2281</u>		Phone: <u>505.432.3476</u>										NM
Email: <u>tknight@animasenvironmental.com</u>		Email: <u>aarchuleta@djrllc.com</u>										CO
												UT

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
9:10	2-14-19	Soil	2	SC-16	1	X	X	X			X		
9:15			2	SC-17	2	X	X	X			X		
9:20			2	SC-18	3	X	X	X			X		
9:25			2	SC-19	4	X	X	X			X		
9:30			2	SC-20	5	X	X	X			X		
9:35			2	SC-21	6	X	X	X			X		
9:40			2	SC-22	7	X	X	X			X		
9:45			2	SC-23	8	X	X	X			X		
9:50			2	SC-24	9	X	X	X			X		
9:55			2	SC-25	10	X	X	X			X		

Additional Instructions:

vis ice in cooler

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

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	Lab Use Only
<u>[Signature]</u>	2-14-19	12:59	<u>[Signature]</u>	2-14-19	12:59	Received on ice: Y / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
						AVG Temp °C _____

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.

Project Information

Chain of Custody

Page 20 of 20

Client: <u>AES</u>		Report Attention		Lab Use Only		TAT		EPA Program				
Project: <u>EW Mudge 3</u>		Report due by: <u>2-21-19</u>		Lab WO#		Job Number		1D	3D	RCRA	CWA	SD
Project Manager: <u>Tami Knight</u>		Attention: <u>Amy Archuleta</u>		P								
Address: <u>604 W. Pinon St</u>		Address: <u>1 Road 3263</u>									State	
City, State, Zip: <u>Farmington, NM 87401</u>		City, State, Zip: <u>Aztec, NM 87410</u>									NM CO UT	
Phone: <u>505.564.2281</u>		Phone: <u>505.632.3476</u>										
Email: <u>tknight@animasenvironmental.com</u>		Email: <u>aarchuleta@djrlc.com</u>										

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
10:08	2-14-19	Soil	2	SC-26	11	X	X	X			X							

Additional Instructions:

V.S. ice in cooler

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

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	Lab Use Only
<u>[Signature]</u>	2-14-19	12:59	<u>[Signature]</u>	2-14-19	12:59	Received on ice: <u>Y</u> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
						AVG Temp °C <u>4</u>

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.



AES Note: Samples utilized for closure are highlighted.

Analytical Report

Report Summary

Client: Animas Environmental Services

Samples Received: 3/11/2019

Job Number: 17035-0028

Work Order: P903020

Project Name/Location: EW Mudge 8

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 3/14/19

Walter Hinchman, Laboratory Director



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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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Tami Knight

Reported:
03/14/19 14:22

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-27	P903020-01A	Soil	03/11/19	03/11/19	Glass Jar, 4 oz.
	P903020-01B	Soil	03/11/19	03/11/19	Glass Jar, 4 oz.
SC-28	P903020-02A	Soil	03/11/19	03/11/19	Glass Jar, 4 oz.
	P903020-02B	Soil	03/11/19	03/11/19	Glass Jar, 4 oz.
SC-29	P903020-03A	Soil	03/11/19	03/11/19	Glass Jar, 4 oz.
	P903020-03B	Soil	03/11/19	03/11/19	Glass Jar, 4 oz.

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 17035-0028
 Project Manager: Tami Knight

Reported:
 03/14/19 14:22

SC-27
P903020-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatile Organics by EPA 8021</u>									
Benzene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1911009	03 11 19	03 12 19	EPA 8021B	
<u>Nonhalogenated Organics by 8015</u>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1911005	03/12/19	03/12/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1911005	03/12/19	03/12/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %		50-150	1911009	03 11 19	03 12 19	EPA 8015D	
Surrogate: n-Nonane		94.3 %		50-200	1911005	03 12 19	03 12 19	EPA 8015D	
<u>Anions by 300.0/9056A</u>									
Chloride	ND	20.0	mg/kg	1	1911003	03/11/19	03/11/19	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 17035-0028
 Project Manager: Tami Knight

Reported:
 03/14/19 14:22

SC-28
P903020-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1911009	03 11 19	03 12 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1911005	03/12/19	03/12/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1911005	03/12/19	03/12/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %		50-150	1911009	03 11 19	03 12 19	EPA 8015D	
Surrogate: n-Nonane		97.7 %		50-200	1911005	03 12 19	03 12 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	75.0	20.0	mg/kg	1	1911003	03/11/19	03/11/19	EPA 300.0/9056A	

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Animas Environmental Services
 624 E. Comanche St.
 Farmington NM, 87401-6815

 Project Name: EW Mudge 8
 Project Number: 17035-0028
 Project Manager: Tami Knight

Reported:
 03/14/19 14:22

SC-29
P903020-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1911009	03 11 19	03 12 19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1911009	03/11/19	03/12/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1911005	03/12/19	03/12/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1911005	03/12/19	03/12/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %		50-150	1911009	03 11 19	03 12 19	EPA 8015D	
Surrogate: n-Nonane		100 %		50-200	1911005	03 12 19	03 12 19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1911003	03/11/19	03/11/19	EPA 300.0/9056A	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Tami Knight

Reported:
03/14/19 14:22

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
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Batch 1911009 - Purge and Trap EPA 5030A

Blank (1911009-BLK1)

Prepared: 03/11/19 1 Analyzed: 03/12/19 1

Benzene	ND	0.0250	mg/kg
Toluene	ND	0.0250	"
Ethylbenzene	ND	0.0250	"
p,m-Xylene	ND	0.0500	"
o-Xylene	ND	0.0250	"
Total Xylenes	ND	0.0250	"

Surrogate: 4-Bromochlorobenzene-PID 8.47 " 8.00 106 50-150

LCS (1911009-BS1)

Prepared: 03/11/19 1 Analyzed: 03/12/19 1

Benzene	5.08	0.0250	mg/kg	5.00		102	70-130
Toluene	5.23	0.0250	"	5.00		105	70-130
Ethylbenzene	5.60	0.0250	"	5.00		112	70-130
p,m-Xylene	11.7	0.0500	"	10.0		117	70-130
o-Xylene	5.35	0.0250	"	5.00		107	70-130
Total Xylenes	17.0	0.0250	"				70-130

Surrogate: 4-Bromochlorobenzene-PID 8.38 " 8.00 105 50-150

Matrix Spike (1911009-MS1)

Source: P903020-01

Prepared: 03/11/19 1 Analyzed: 03/12/19 1

Benzene	5.10	0.0250	mg/kg	5.00	ND	102	54.3-133
Toluene	5.24	0.0250	"	5.00	ND	105	61.4-130
Ethylbenzene	5.59	0.0250	"	5.00	ND	112	61.4-133
p,m-Xylene	11.6	0.0500	"	10.0	ND	116	63.3-131
o-Xylene	5.33	0.0250	"	5.00	ND	107	63.3-131
Total Xylenes	16.9	0.0250	"		ND		63.3-131

Surrogate: 4-Bromochlorobenzene-PID 8.24 " 8.00 103 50-150

Matrix Spike Dup (1911009-MSD1)

Source: P903020-01

Prepared: 03/11/19 1 Analyzed: 03/12/19 1

Benzene	4.97	0.0250	mg/kg	5.00	ND	99.4	54.3-133	2.47	20
Toluene	5.12	0.0250	"	5.00	ND	102	61.4-130	2.44	20
Ethylbenzene	5.48	0.0250	"	5.00	ND	110	61.4-133	1.96	20
p,m-Xylene	11.4	0.0500	"	10.0	ND	114	63.3-131	1.88	20
o-Xylene	5.24	0.0250	"	5.00	ND	105	63.3-131	1.79	20
Total Xylenes	16.6	0.0250	"		ND		63.3-131	1.86	20

Surrogate: 4-Bromochlorobenzene-PID 8.35 " 8.00 104 50-150

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Tami Knight

Reported:
03/14/19 14:22

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
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Batch 1911005 - DRO Extraction EPA 3570

Blank (1911005-BLK1)

Prepared & Analyzed: 03/12/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	49.0		"	50.0		98.1	50-200			

LCS (1911005-BS1)

Prepared & Analyzed: 03/12/19 1

Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500		96.3	38-132			
Surrogate: n-Nonane	48.6		"	50.0		97.2	50-200			

Matrix Spike (1911005-MS1)

Source: P903020-01

Prepared & Analyzed: 03/12/19 1

Diesel Range Organics (C10-C28)	461	25.0	mg/kg	500	ND	92.2	38-132			
Surrogate: n-Nonane	45.2		"	50.0		90.4	50-200			

Matrix Spike Dup (1911005-MSD1)

Source: P903020-01

Prepared: 03/12/19 1 Analyzed: 03/13/19 1

Diesel Range Organics (C10-C28)	482	25.0	mg/kg	500	ND	96.5	38-132	4.51	20	
Surrogate: n-Nonane	47.4		"	50.0		94.7	50-200			

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Tami Knight

Reported:
03/14/19 14:22

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
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Batch 1911009 - Purge and Trap EPA 5030A

Blank (1911009-BLK1)

Prepared: 03/11/19 | Analyzed: 03/12/19 |

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		"	8.00		89.9	50-150			

LCS (1911009-BS2)

Prepared: 03/11/19 | Analyzed: 03/12/19 |

Gasoline Range Organics (C6-C10)	56.9	20.0	mg/kg	50.0		114	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		"	8.00		92.4	50-150			

Matrix Spike (1911009-MS2)

Source: P903020-01

Prepared: 03/11/19 | Analyzed: 03/12/19 |

Gasoline Range Organics (C6-C10)	56.5	20.0	mg/kg	50.0	ND	113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		"	8.00		92.6	50-150			

Matrix Spike Dup (1911009-MSD2)

Source: P903020-01

Prepared: 03/11/19 | Analyzed: 03/12/19 |

Gasoline Range Organics (C6-C10)	56.9	20.0	mg/kg	50.0	ND	114	70-130	0.720	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		"	8.00		91.2	50-150			

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Tami Knight

Reported:
03/14/19 14:22

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
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Batch 1911003 - Anion Extraction EPA 300.0/9056A

Blank (1911003-BLK1)

Prepared: 03/11/19 1 Analyzed: 03/11/19 2

Chloride	ND	20.0	mg/kg
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LCS (1911003-BS1)

Prepared: 03/11/19 1 Analyzed: 03/11/19 2

Chloride	254	20.0	mg/kg	250	101	90-110
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Matrix Spike (1911003-MS1)

Source: P903017-01

Prepared: 03/11/19 1 Analyzed: 03/11/19 2

Chloride	280	20.0	mg/kg	250	27.6	101	80-120
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Matrix Spike Dup (1911003-MSD1)

Source: P903017-01

Prepared: 03/11/19 1 Analyzed: 03/11/19 2

Chloride	281	20.0	mg/kg	250	27.6	101	80-120	0.271	20
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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: EW Mudge 8
Project Number: 17035-0028
Project Manager: Tami Knight

Reported:
03/14/19 14:22

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.

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Project Information

Chain of Custody

Page 1 of 1

Client: AES
 Project: EW Mudge 8
 Project Manager: Tami Knight
 Address: 604 W. Plmm
 City, State, Zip: Farmington NM 87401
 Phone: 505-564-2281
 Email: tknight@animasenvironmental.com

Report Attention
 Report due by: 3-14-19
 Attention: Amy Archuleta
 Address: 1 Road 3263
 City, State, Zip: Aztec NM 87410
 Phone: 505-632-3476
 Email: aarchuleta@djr.com

Lab Use Only
 Lab WO# P903020 Job Number 17035-0028
 TAT 1D 3D RCRA CWA SDWA
 X 3/11/19

Analysis and Method State

DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 TPH 418.1 NM CO UT AZ

X

Remarks

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
8:20	3-11-19	Soil	2	SC-27	1	X	X	X			X		
8:25	3-11-19	Soil	2	SC-28	2	X	X	X			X		
8:30	3-11-19	Soil	2	SC-29	3	X	X	X			X		

Additional Instructions: email results to Elizabeth McNally as well emcnally@animasenvironmental.com
 Bill to DJR
 Vis 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: Curtis

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) <u>Curtis</u>	Date <u>3-11-19</u>	Time <u>9:50</u>	Received by: (Signature) <u>Justin A. Myrland</u>	Date <u>3-11-19</u>	Time <u>9:50</u>	Lab Use Only Received on ice: <u>Y</u> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3 AVG Temp °C <u>4</u>

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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