

**NMOC**

**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 x201
Contact email	aarchuleta@djrlc.com	Incident # (assigned by OCD)	
Contact mailing address	1 Road 6263 Aztec, NM, 87410		
	NMF 1900749627		

### Location of Release Source

Latitude 36.3694496 Longitude -108.0731201  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Dodd Geiger #1	Site Type	Oil Well
Date Release Discovered	December 11, 2018	API# (if applicable)	30-045-27234

Unit Letter	Section	Township	Range	County
I	26	25N	12W	San Juan

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

**DENIED**  
BY: Cory Smith  
DATE: 1/22/19 (505) 334-6178 Ext. 115 Fee portal  
PCWD After July  
must submit through

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)		
<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	7 bbls
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	unknown
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

### Cause of Release

BGT area showed signs of contamination. After the report of the BGT release, the homestead occupant, that is approximately 600' from this location, was upset about the crews being on location. We believe it was the occupant that opened the valves. He left an arrow in the ground as a marker. Vandalism at the site also resulted in a release from the separator.

**NMOC**

JUL 18 2019

DISTRICT III

29

**State of New Mexico  
Oil Conservation Division**

<b>Incident ID</b>	
<b>District RP</b>	
<b>Facility ID</b>	
<b>Application ID</b>	

## 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.

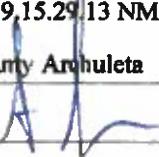
**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- 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

Signature: 

Date: 1/22/19

email: aarchuleta@djrllc.com

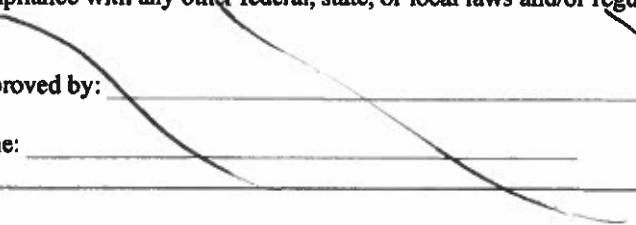
Telephone: 505-632-3476

**OCD Only**

Received by: CC

Date: 7/16/19

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 it relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: 

Date: \_\_\_\_\_

Title: \_\_\_\_\_

Printed Name: \_\_\_\_\_



January 15, 2019

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

*Sent via electronic mail to:*  
[aarchuleta@djrllc.com](mailto:aarchuleta@djrllc.com)

**RE: Below Grade Tank and Separator Release Closure Report**  
**Dodd Geiger #1**  
**API #3004527234**  
**Incident No. NVF 1900749627**  
**San Juan County, New Mexico**

Dear Ms. Archuleta:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure and subsequent confirmed release at the DJR Operating (DJR) Dodd Geiger #1, located in San Juan County, New Mexico. Tank removal had been completed by DJR contractors prior to AES' arrival at the location. Additionally, this report includes the release excavation clearance of the separator at the subject site. The separator had been vandalized which resulted in a minor release.

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## 1.0 Site Information

### 1.1 Location

**Site Name – Dodd Geiger #1**

**API# – 3004527234**

**Legal Description – NE¼ SE¼, Section 26, T25N, R12W, San Juan County, New Mexico**

**Well Latitude/Longitude – N36.36942 and W108.07279, respectively**

**BGT Latitude/Longitude – N36.36940 and W108.07279, respectively**

**Separator Latitude/Longitude – N36.36952 and W108.07283, respectively**

**Land Jurisdiction – Navajo Nation Tribal Trust Lands**

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

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

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, December 2018

Figure 3. Excavation Sample Locations and Results, December 2018

## **1.2 NMOCD Ranking**

Navajo Nation Environmental Protection Agency (NNEPA) adheres to action levels for releases and spills as established by the New Mexico Oil Conservation Division (NMOCD). In accordance with New Mexico Administrative Code (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:** Prior to site work, the NMOCD and New Mexico Office of the State Engineer (NMOSE) databases were reviewed, and depth to groundwater information could not be located for this site. AES personnel further assessed the depth to water determination using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. Based on this information the depth to groundwater is interpreted to between 50 to 100 feet below ground surface (bgs).
- **Sensitive Receptor Determination:** The site is not within any of the areas listed within NMAC 19.15.29.12C.4, where releases must be treated as if they occur less than 50 feet bgs to groundwater.

### **Action levels are:**

- 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene, and xylene (BTEX);
- 2,500 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO);
- 1,000 mg/kg TPH as GRO and DRO; and
- 10,000 mg/kg chloride.

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## **2.0 Soil Sampling**

AES was initially contacted by Amy Archuleta of DJR on December 11, 2018, regarding the BGT closure and visible contamination observed under the BGT. Additionally, on December 18, 2018, AES was contacted by DJR regarding vandalism at the site that resulted in a release from the separator. On December 21, 2018, Sheradan Jaquez and Greg Broome of AES mobilized to the location. AES personnel collected five 5-point soil composite samples for the BGT excavation (SC-1 through SC-5). Samples were collected from each of the walls and the base of the BGT excavation (22 feet by 27 feet by 10 feet

deep). Two additional 5-point soil composite samples (SC-6 and SC-7) were collected from the separator surficial excavation (36 feet by 30 feet).

## 2.2 Laboratory Analyses

Soil sample SC-1 through SC-7 were laboratory analyzed for:

- BTEX per USEPA Method 8021B;
- TPH for GRO, DRO, MRO per USEPA Method 8015M/D; and
- Chloride per USEPA Method 300.0.

## 2.3 Laboratory Analytical Results

Laboratory analytical results are summarized in Table 1 and presented on Figure 3. The AES Field Sampling Report and the laboratory analytical report are attached.

Table 1. Soil Laboratory Analytical Results  
Dodd Geiger #1 BGT and Separator Release Excavation Closure, December 2018

Sample ID	Date Sampled	Depth (ft)	Benzene (8021) (mg/kg)	Total BTEX (8021) (mg/kg)	TPH-GRO (8015) (mg/kg)	TPH-DRO (8015) (mg/kg)	TPH-MRO (8015) (mg/kg)	Chloride (300.0) (mg/kg)
<i>NMOCD Action Level (NMAC 19.15.29.12 Table 1)</i>								
SC-1	12/21/18	2-8	<0.1	<0.1	<20.0	<25.0	<50.0	239
SC-2	12/21/18	2-8	<0.1	<0.1	<20.0	<25.0	<50.0	34.7
SC-3	12/21/18	2-8	<0.1	<0.1	<20.0	<25.0	<50.0	117
SC-4	12/21/18	2-8	<0.1	<0.1	<20.0	47.4	109	88.2
SC-5	12/21/18	10	<0.1	<0.1	<20.0	36.8	<50.0	172
SC-6	12/21/18	0	<0.1	<0.1	<20.0	215	234	545
SC-7	12/21/18	0	<0.1	<0.1	<20.0	<25.0	<50.0	<20.0

## 3.0 Conclusions and Recommendations

On December 21, 2018, final clearance of the excavations was completed. Laboratory analytical results of the excavation extents reported benzene, total BTEX, TPH (as GRO/DRO and GRO/DRO/MRO), and chloride concentrations in all samples as below NMOCD action levels.

Amy Archuleta  
Dodd Geiger #1 BGT Closure Report  
January 15, 2019  
Page 4 of 4

The surficial excavation of the separator was re-graded, and the BGT excavation was backfilled with clean soil on January 14, 2019. The well location remains in use and a new aboveground waste tank was installed in the same location as the former BGT; therefore, reseeding was not necessary. No further work is recommended.

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

Sincerely,



David J. Reese  
Environmental Scientist



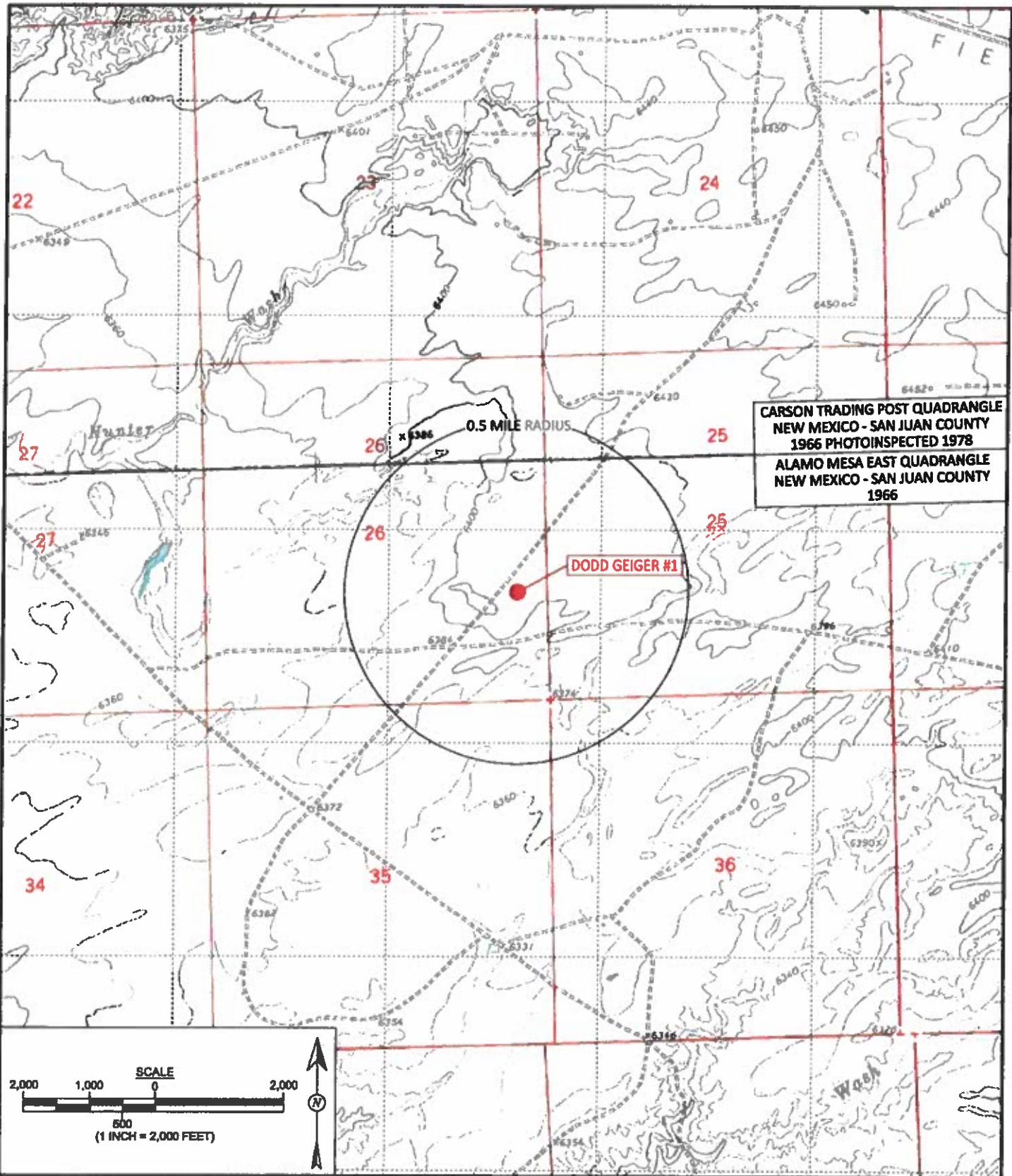
Elizabeth McNally, P.E.

Attachments:

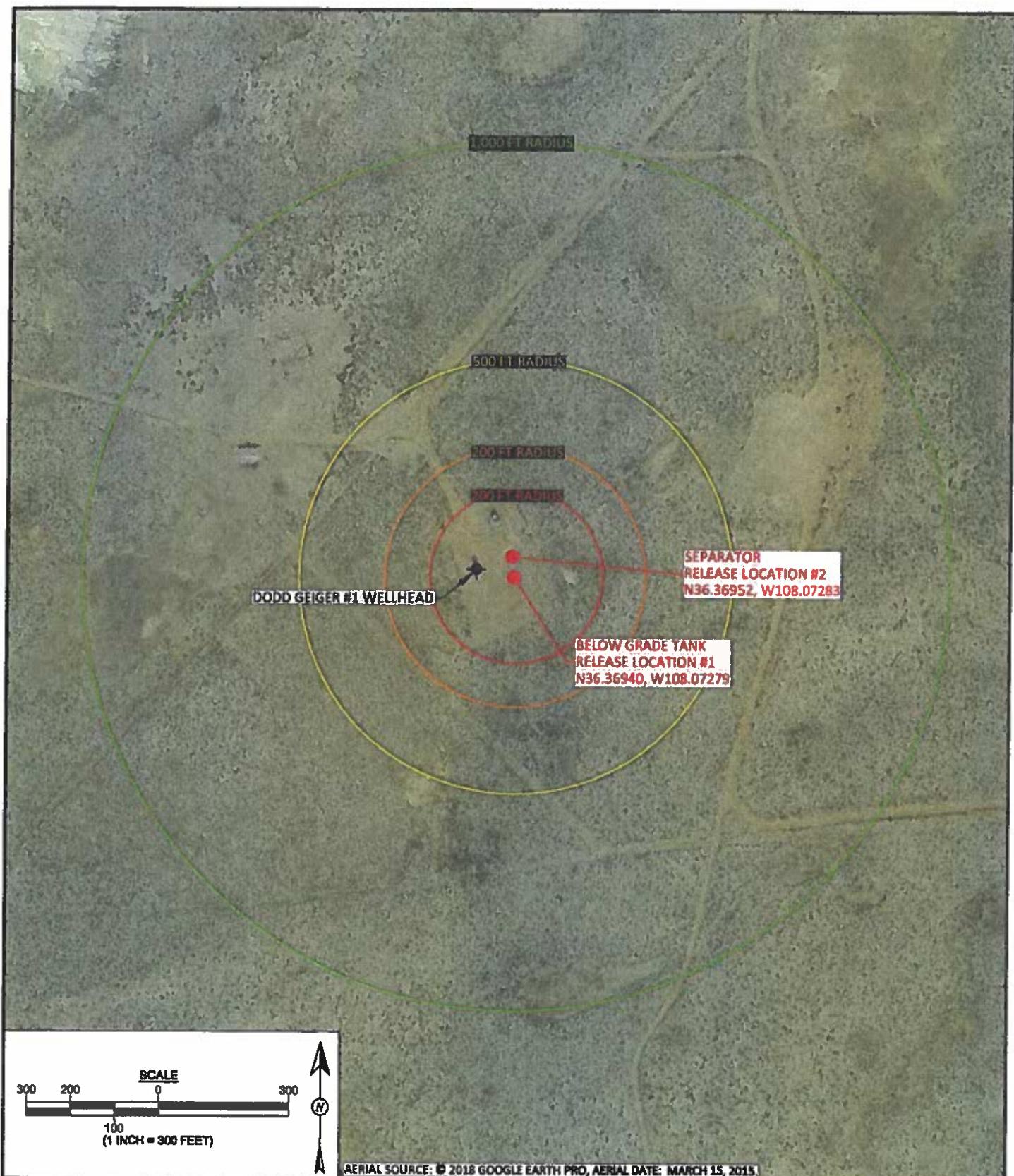
- [Figure 1. Topographic Site Location Map](#)
- [Figure 2. Aerial Site Map, December 2018](#)
- [Figure 3. Excavation Sample Locations and Results, December 2018](#)
- [C-141 Form](#)
- [Photograph Log](#)
- [Envirotech Analytical Report 17035-0028](#)

R:\Animas 2000\Dropbox (Animas Environmental)\0000 AES Server Client Projects Dropbox\2018 Client Projects\DJ Resources\Dodd Geiger 1\Report\Release Excavation Report 011519 EM.docx

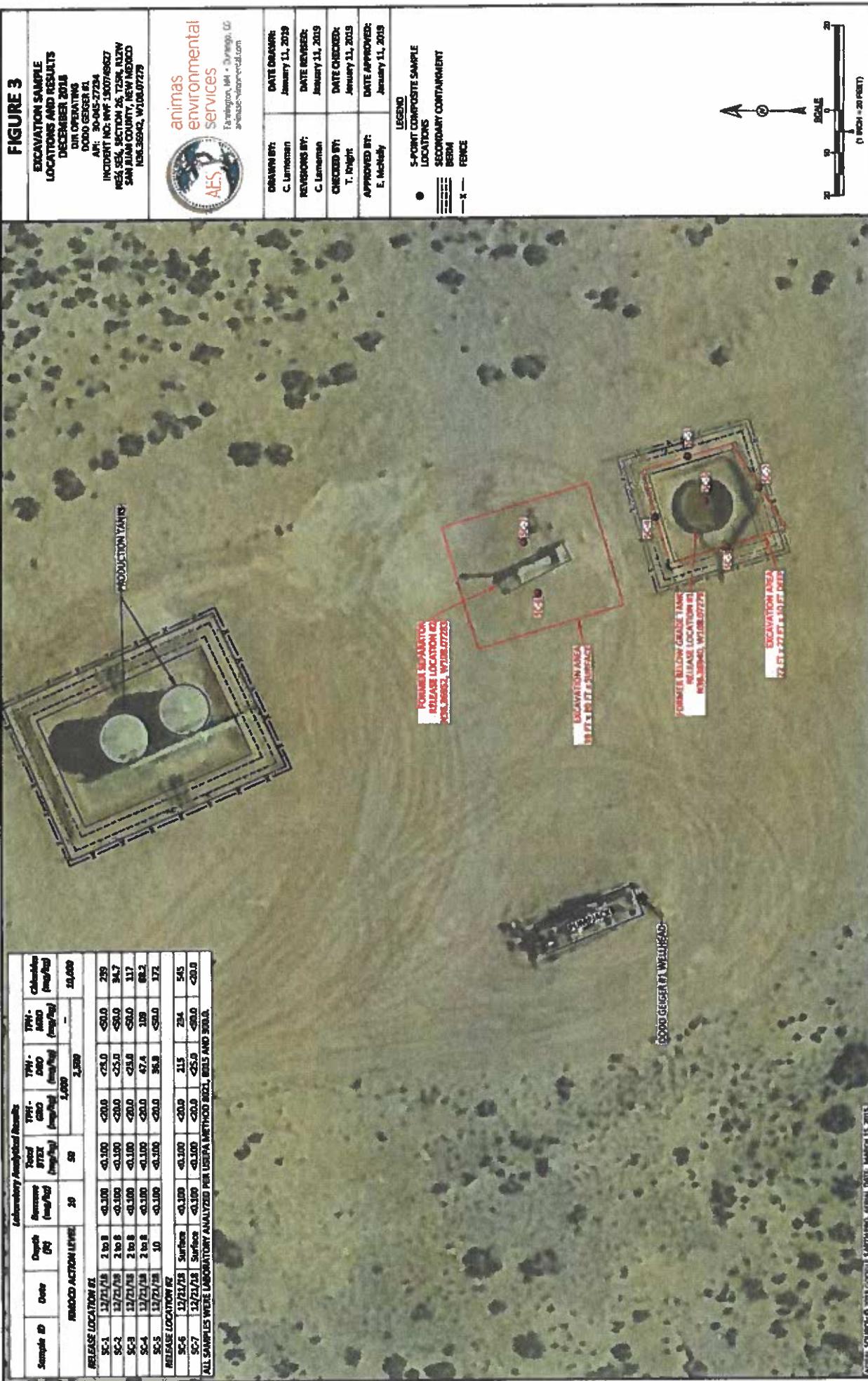
## **Attachments**



<p><b>animas environmental services</b> Farmington, NM • Durango, CO <a href="http://animasenvironmental.com">animasenvironmental.com</a></p>	<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> December 18, 2018	<b>FIGURE 1</b> <b>TOPOGRAPHIC SITE LOCATION MAP</b> DJR OPERATING DODD GEIGER #1 API: 30-045-27234 INCIDENT NO: NVF 1900749627 NE 1/4 SE 1/4, SECTION 26, T25N, R12W SAN JUAN COUNTY, NEW MEXICO N36.36942, W108.07279
	<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> January 11, 2019	
	<b>CHECKED BY:</b> T. Knight	<b>DATE CHECKED:</b> January 11, 2019	
	<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 11, 2019	



 <p><b>animas environmental services</b></p> <p>Farmington, NM • Durango, CO <a href="http://animasenvironmental.com">animasenvironmental.com</a></p>	<b>DRAWN BY:</b> C. Laraman	<b>DATE DRAWN:</b> December 18, 2018	<b>FIGURE 2</b> <b>AERIAL SITE LOCATION MAP</b> DJR OPERATING DODD GEIGER #1 API: 30-045-27234 INCIDENT NO: NVF 1900749627 NE 1/4 SE 1/4, SECTION 26, T25N, R12W SAN JUAN COUNTY, NEW MEXICO N36.36942, W108.07279
	<b>REVISIONS BY:</b> C. Laraman	<b>DATE REVISED:</b> January 11, 2019	
	<b>CHECKED BY:</b> T. Knight	<b>DATE CHECKED:</b> January 11, 2019	
	<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 11, 2019	

**FIGURE 3**

**DJR Operating, LLC  
Dodd Geiger #1 BGT and Separator Release  
Closure Photo Log**



**Photo 1: BGT excavation facing northeast. Photo taken December 21, 2018.**



**Photo 2: BGT excavation facing northwest towards the separator. Photo taken December 21, 2018.**

**DJR Operating, LLC  
Dodd Geiger #1 BGT and Separator Release  
Closure Photo Log**



**Photo 3: Looking east at BGT excavation. Photo taken December 21, 2018.**



**Photo 4: Looking southeast at the BGT excavation. Photo taken December 21, 2018.**

**DJR Operating, LLC  
Dodd Geiger #1 BGT and Separator Release  
Closure Photo Log**

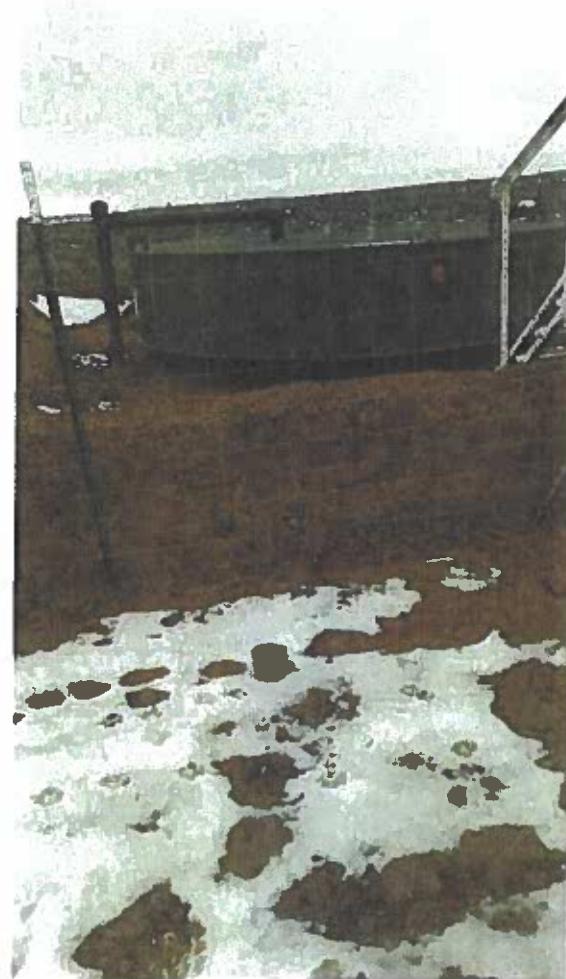


**Photo 5:** Excavation of surficial soils from separator release. Photo taken December 21, 2018.



**Photo 6:** Excavation of surficial soils from separator release. Photo taken December 21, 2018.

**DJR Operating, LLC  
Dodd Geiger #1 BGT and Separator Release  
Closure Photo Log**



**Photo 7: New above ground tank installed in the same location of the former BGT. Photo taken January 14, 2019.**



## Analytical Report

### Report Summary

Client: Animas Environmental Services

Chain Of Custody Number:

Samples Received: 12/21/2018 1:12:00PM

Job Number: 17035-0028

Work Order: P812049

Project Name/Location: Dodd Gieger 1

Report Reviewed By:

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

Date: 1/9/19

Walter Hinchman, Laboratory Director

A handwritten signature in black ink, appearing to read "TJ".

Date: 1/9/19

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: Project Number: Project Manager:	Dodd Gieger 1 17035-0028 Tami Knight	Reported: 01/09/19 15:37
-----------------------------------------------------------------------------------	------------------------------------------------------	--------------------------------------------	-----------------------------

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-1	P812049-01A	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
	P812049-01B	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
SC-2	P812049-02A	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
	P812049-02B	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
SC-3	P812049-03A	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
	P812049-03B	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
SC-4	P812049-04A	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
	P812049-04B	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
SC-5	P812049-05A	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
	P812049-05B	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
SC-6	P812049-06A	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
	P812049-06B	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
SC-7	P812049-07A	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.
	P812049-07B	Soil	12/21/18	12/21/18	Glass Jar, 4 oz.

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Dodd Gieger 1 Project Number: 17035-0028 Project Manager: Tami Knight	Reported: 01/09/19 15:37							
<b>SC-1</b> <b>P812049-01 (Solid)</b>									
Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	102 %	50-150		1901002	01/02/19	01/03/19	EPA 8021B		
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1901002	01/02/19	01/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1901008	01/02/19	01/07/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1901008	01/02/19	01/07/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	50-150		1901002	01/02/19	01/03/19	EPA 8015D		
Surrogate: n-Nonane	113 %	50-200		1901008	01/02/19	01/07/19	EPA 8015D		
<b>Anions by 300.0/9056A</b>									
Chloride	239	20.0	mg/kg	1	1901006	01/02/19	01/02/19	EPA 300.0/9056A	

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

Project Name: Dodd Gieger I  
Project Number: 17035-0028  
Project Manager: Tami Knight

Reported:  
01/09/19 15:37

SC-2  
P812049-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	102 %	50-150		1901002	01/02/19	01/03/19	01/03/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1901002	01/02/19	01/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1901008	01/02/19	01/08/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1901008	01/02/19	01/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID	110 %	50-150		1901002	01/02/19	01/03/19	01/03/19	EPA 8015D	
Surrogate: n-Nonane	113 %	50-200		1901008	01/02/19	01/08/19	01/08/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	34.7	20.0	mg/kg	1	1901006	01/02/19	01/02/19	EPA 300.0/9056A	

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

Project Name: Dodd Gieger 1  
Project Number: 17035-0028  
Project Manager: Tami Knight

Reported:  
01/09/19 15:37

SC-3

P812049-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	100 %		50-150		1901002	01/02/19	01/03/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1901002	01/02/19	01/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1901008	01/02/19	01/08/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1901008	01/02/19	01/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %		50-150		1901002	01/02/19	01/03/19	EPA 8015D	
Surrogate: n-Nonane	112 %		50-200		1901008	01/02/19	01/08/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	117	20.0	mg/kg	1	1901006	01/02/19	01/02/19	EPA 300.0/9056A	

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5796 US Highway 64, Farmington, NM 87401

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

Project Name: Dodd Gieger 1  
Project Number: 17035-0028  
Project Manager: Tami Knight

Reported:  
01/09/19 15:37

SC-4  
P812049-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	101 %	50-150			1901002	01/02/19	01/03/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1901002	01/02/19	01/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	47.4	25.0	mg/kg	1	1901008	01/02/19	01/08/19	EPA 8015D	
Oil Range Organics (C28-C40+)	109	50.0	mg/kg	1	1901008	01/02/19	01/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID	111 %	50-150			1901002	01/02/19	01/03/19	EPA 8015D	
Surrogate: n-Nonane	114 %	50-200			1901008	01/02/19	01/08/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	88.2	20.0	mg/kg	1	1901006	01/02/19	01/02/19	EPA 300.0/9056A	

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

Project Name: Dodd Gieger I  
Project Number: 17035-0028  
Project Manager: Tami Knight

Reported:  
01/09/19 15:37

**SC-5**  
**P812049-05 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	100	ug/kg	1	I901002	01/02/19	01/03/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	I901002	01/02/19	01/03/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	I901002	01/02/19	01/03/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	I901002	01/02/19	01/03/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	I901002	01/02/19	01/03/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	I901002	01/02/19	01/03/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	I901002	01/02/19	01/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	104 %	50-150		I901002	01/02/19	01/03/19	EPA 8021B		
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	I901002	01/02/19	01/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	36.8	25.0	mg/kg	1	I901008	01/02/19	01/08/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	I901008	01/02/19	01/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID	109 %	50-150		I901002	01/02/19	01/03/19	EPA 8015D		
Surrogate: n-Nonane	112 %	50-200		I901008	01/02/19	01/08/19	EPA 8015D		
<b>Anions by 300.0/9056A</b>									
Chloride	172	20.0	mg/kg	1	I901006	01/02/19	01/02/19	EPA 300.0/9056A	

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

Project Name: Dodd Gieger 1  
Project Number: 17035-0028  
Project Manager: Tami Knight

Reported:  
01/09/19 15:37

SC-6  
P812049-06 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	102 %	50-150		1901002	01/02/19	01/03/19	EPA 8021B		
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1901002	01/02/19	01/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	215	25.0	mg/kg	1	1901008	01/02/19	01/08/19	EPA 8015D	
Oil Range Organics (C28-C40+)	234	50.0	mg/kg	1	1901008	01/02/19	01/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	50-150	1901002	01/02/19	01/03/19	EPA 8015D		
Surrogate: n-Nanane		124 %	50-200	1901008	01/02/19	01/08/19	EPA 8015D		
<b>Anions by 300.0/9056A</b>									
Chloride	545	20.0	mg/kg	1	1901006	01/02/19	01/02/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Dodd Gieger 1 Project Number: 17035-0028 Project Manager: Tami Knight	Reported: 01/09/19 15:37
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**SC-7**  
**P812049-07 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Toluene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1901002	01/02/19	01/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	102 %	50-150		1901002	01/02/19	01/03/19	01/03/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1901002	01/02/19	01/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1901008	01/02/19	01/08/19	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1901008	01/02/19	01/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID	109 %	50-150		1901002	01/02/19	01/03/19	01/03/19	EPA 8015D	
Surrogate: n-Nonane	113 %	50-200		1901008	01/02/19	01/08/19	01/08/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1901006	01/02/19	01/02/19	EPA 300.0/9056A	

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

Project Name: Dodd Gieger 1  
Project Number: 17035-0028  
Project Manager: Tami Knight

Reported:  
01/09/19 15:37

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 1901002 - Purge and Trap EPA 5030A

Blank (1901002-BLK1)

Prepared: 01/02/19 0 Analyzed: 01/02/19 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	8140		"	8000		102	50-150		

LCS (1901002-BS1)

Prepared: 01/02/19 0 Analyzed: 01/02/19 2

Benzene	4180	100	ug/kg	5000	83.6	70-130			
Toluene	4190	100	"	5000	83.8	70-130			
Ethylbenzene	4220	100	"	5000	84.3	70-130			
p,m-Xylene	8690	200	"	10000	86.9	70-130			
o-Xylene	4290	100	"	5000	85.7	70-130			
Total Xylenes	13000	100	"	15000	86.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8250		"	8000		103	50-150		

Matrix Spike (1901002-MS1)

Source: P812051-01

Prepared: 01/02/19 0 Analyzed: 01/02/19 2

Benzene	4920	100	ug/kg	5000	ND	98.5	54.3-133		
Toluene	4950	100	"	5000	ND	99.0	61.4-130		
Ethylbenzene	5000	100	"	5000	ND	100	61.4-133		
p,m-Xylene	10200	200	"	10000	ND	102	63.3-131		
o-Xylene	4970	100	"	5000	ND	99.3	63.3-131		
Total Xylenes	15200	100	"	15000	ND	101	63.3-131		
Surrogate: 4-Bromochlorobenzene-PID	8230		"	8000		103	50-150		

Matrix Spike Dup (1901002-MSD1)

Source: P812051-01

Prepared: 01/02/19 0 Analyzed: 01/02/19 2

Benzene	5240	100	ug/kg	5000	ND	105	54.3-133	6.21	20
Toluene	5240	100	"	5000	ND	105	61.4-130	5.71	20
Ethylbenzene	5280	100	"	5000	ND	106	61.4-133	5.55	20
p,m-Xylene	10800	200	"	10000	ND	108	63.3-131	5.45	20
o-Xylene	5240	100	"	5000	ND	105	63.3-131	5.32	20
Total Xylenes	16000	100	"	15000	ND	107	63.3-131	5.41	20
Surrogate: 4-Bromochlorobenzene-PID	8210		"	8000		103	50-150		

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

Project Name: Dodd Gieger I  
Project Number: 17035-0028  
Project Manager: Tami Knight

Reported:  
01/09/19 15:37

Nonhalogenated Organics by 8015 - Quality Control  
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
<b>Batch 1901002 - Purge and Trap EPA 5030A</b>										
<b>Blank (1901002-BLK1)</b>										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	8.77	"		8.00		110	50-150			
<b>LCS (1901002-BS2)</b>										
Gasoline Range Organics (C6-C10)	43.1	20.0	mg/kg	50.0		86.1	70-130			
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	9.12	"		8.00		114	50-150			
<b>Matrix Spike (1901002-MS2)</b>										
Gasoline Range Organics (C6-C10)	44.2	20.0	mg/kg	50.0	ND	88.3	70-130			
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	8.71	"		8.00		109	50-150			
<b>Matrix Spike Dup (1901002-MSD2)</b>										
Gasoline Range Organics (C6-C10)	48.8	20.0	mg/kg	50.0	ND	97.6	70-130	9.94	20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	8.83	"		8.00		110	50-150			

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Laboratory: Envirotech-inc.com



Animas Environmental Services 624 E Comanche St. Farmington NM, 87401-6815	Project Name: Dodd Gieger 1 Project Number: 17035-0028 Project Manager: Tami Knight	Reported: 01/09/19 15:37
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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 1901008 - DRO Extraction EPA 3570****Blank (1901008-BLK1)**

Prepared: 01/02/19 1 Analyzed: 01/08/19 1

Diesel Range Organics (C10-C28) ND 25.0 mg/kg

Oil Range Organics (C28-C40+) ND 50.0 "

Surrogate: n-Nonane 65.0 " 50.0 130 50-200

**LCS (1901008-BS1)**

Prepared: 01/02/19 1 Analyzed: 01/07/19 2

Diesel Range Organics (C10-C28) 460 25.0 mg/kg 500 92.1 38-132

Surrogate: n-Nonane 56.9 " 50.0 114 50-200

**Matrix Spike (1901008-MS1)**

Source: P812047-01 Prepared: 01/02/19 1 Analyzed: 01/07/19 2

Diesel Range Organics (C10-C28) 424 25.0 mg/kg 500 ND 84.7 38-132

Surrogate: n-Nonane 55.8 " 50.0 112 50-200

**Matrix Spike Dup (1901008-MSD1)**

Source: P812047-01 Prepared: 01/02/19 1 Analyzed: 01/07/19 2

Diesel Range Organics (C10-C28) 431 25.0 mg/kg 500 ND 86.1 38-132 1.66 20

Surrogate: n-Nonane 55.9 " 50.0 112 50-200

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Project Number: Project Manager:	Dodd Gieger I 17035-0028 Tami Knight	Reported: 01/09/19 15:37
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**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
<b>Batch 1901006 - Anion Extraction EPA 300.0/9056A</b>									
Blank (1901006-BLK1)					Prepared & Analyzed: 01/02/19 1				
Chloride	ND	20.0	mg/kg						
LCS (1901006-BS1)					Prepared & Analyzed: 01/02/19 1				
Chloride	234	20.0	mg/kg	250		102	90-110		
Matrix Spike (1901006-MS1)		Source: P812049-01			Prepared & Analyzed: 01/02/19 1				
Chloride	471	20.0	mg/kg	250	239	92.8	80-120		
Matrix Spike Dup (1901006-MSD1)		Source: P812049-01			Prepared & Analyzed: 01/02/19 1				
Chloride	515	20.0	mg/kg	250	239	110	80-120	8.83	20

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: Project Number: Project Manager:	Dodd Gieger I 17035-0028 Tami Knight	Reported: 01/09/19 15:37
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#### 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

Report Attention				Chain of Custody				Page _____ of _____				
Bill To DIR				Lab W# 18-2044 Job Number 17025-0726				EPA Program				
Attention: Amy Archuleta Address: 1 Road 3263 City, State, Zip: Aztec, NM 87410 Phone: 505-632-3476 Email: aarchuleta@dirjc.com				Analysis and Method				State				
								NM	CO	UT	A	
								X				
Time Sampled	Date	Matrix	No Containers	Sample ID	Lab Number	Lab Use Only	TAT	1D	3D	RCRA	CWA	SDW
10:29	12-21-18	Soil	2	SC - 1	1	X	X	X	X	X	X	
10:31		Soil	2	SC - 2	2	X	X	X	X	X	X	
10:32			2	SC - 3	3	X	X	X	X	X	X	
10:34				SC - 4	4	X	X	X	X	X	X	
10:33				SC - 5	5	X	X	X	X	X	X	
10:49				SC - 6	6	X	X	X	X	X	X	
10:50				SC - 7	7	X	X	X	X	X	X	
<i>V:S Ice in Cedar Gladden - League</i>												
Additional Instructions:												
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally relabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <i>Joyce</i>												
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received by: (Signature)
<i>[Signature]</i>	12-21-18	13:12	<i>Joyce</i>	12-21-18	13:12							
Sample Matrix: S - Soil, Sd - Sludge, A - Aqueous, O - Other												
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's 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.												

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 5 °C on subsequent days.

Lab Use Only	Received on ice: <i>Y/N</i>	T1	T2	T3

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