

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) NVF1826951457
Contact mailing address 1 Road 3263 Aztec, NM 87410-9521	

### Location of Release Source

Latitude 36.29493 Longitude -107.65358  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name South Blanco Federal 23-3	Site Type Oil
Date Release Discovered 9-20-2018	API# (if applicable) 30-045-28163

Unit Letter	Section	Township	Range	County
O	23	24N	8W	San Juan

NMOCO

JUN 24 2019

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

### Nature and Volume of Release

DISTRICT III

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) 4 bbls	Volume Recovered (bbls) 0 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
<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: The producing well is the South Blanco Federal 23-3. This well was down for a long period of time and was returned to production 9/19/18 at 4pm. The morning of 9/20/18 at 8:30 am the flowline was found leaking. The leak occurred off South Blanco Federal 23-2 PA Well Site.

Site remediation included excavation, transport and off-site disposal of 562 cy of petroleum contaminated soil between October 2018 and May 2019. Closure sampling confirmed clean extents, with concentrations below applicable NMOCDA Action Levels. Backfill of the excavation area was completed on June 10, 2019.

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Incident ID	
District RP	
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### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100' (ft bgs)
Did this release impact groundwater or surface water?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 1/2-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	
Facility ID	
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## 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 I 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: 6/18/19  
 email: aarchuleta@djrlc.com Telephone: 505-632-3476

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

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

Incident ID	
District RP	
Facility ID	
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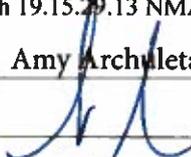
## Closure

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

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

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

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

Printed Name: Amy Archuleta Title: Regulatory Specialist  
 Signature:  Date: 6/18/19  
 email: aarchuleta@djrlc.com Telephone: 505.632.3476

**OCD Only**

Received by: OCD Date: 6/24/19

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 not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 7/22/19  
 Printed Name: Cory Title: Environmental Specialist

June 18, 2019

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

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

**RE: Excavation Clearance Report  
South Blanco Federal 23-3  
API# 30-045-28163  
Incident No. NCS 1826951457  
SW¼ SE¼, Section 23, T24N, R8W  
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) South Blanco Federal 23-3 release location between October 2018 and May 2019. The release, consisting of approximately four barrels of crude oil, was confirmed at this location on September 20, 2018. Confirmation soil samples were collected by AES on a periodic basis to monitor the progress of the excavation and to document when remaining contaminant concentrations were below the applicable New Mexico Oil Conservation Division (NMOCD) action levels.

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## 1.0 Site Information

### 1.1 Location

Site Name – South Blanco Federal 23-3  
Legal Description – SW¼ SE¼, Section 23, T24N, R8W, San Juan County, New Mexico  
Release Latitude/Longitude – N36.29420, W107.64853, 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 140 feet (ft) higher than Blanco Wash located approximately two miles downgradient. Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be greater than 100 ft below ground surface (bgs).
- **Sensitive Receptor Determination:** An unnamed and impacted wash that ultimately drains to Blanco Wash is located 40 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.

### **NMOCD Action levels are:**

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

## 1.3 Assessment and Excavation– September 2018 to May 2019

The initial release consisted of approximately four barrels (bbls) of crude oil. The subject well was down for a long period and was returned to production on September 19, 2018, at 4 pm. The flowline off the neighboring South Blanco Federal 23-2 plugged and abandoned well site was found to be leaking on the morning of September 20, 2018, at 8:30 am. Contaminant impacts were observed to extend approximately 2,100 feet down the unnamed wash adjacent to the location. DJR, in consultation with NMOCD and BLM, began immediate mitigation efforts, including removal of free phase oil and contaminated soils.

Field sampling activities, over the course of different sampling events, included collection of 11 confirmation and 4 grab samples from the unnamed wash immediately downstream of the site location, and 12 confirmation soil samples from the walls and bases of the excavation area. The area of the final excavation area measured approximately 21 ft by 36 ft by 6 to 9 ft in depth.

A total of 562 yd<sup>3</sup> of petroleum contaminated soil was removed during excavation activities and disposed of at Industrial Ecosystems, Inc. (IEI) Landfarm (NMOCD Permit #NM-01-0010B) (507 yd<sup>3</sup>) and at Envirotech Landfarm (NMOCD Permit #NM-01-0011)

(55 yd<sup>3</sup>). Sample locations and final excavation extents are presented on Figures 3, 4, and 5, and excavation activities are documented in the photograph log. Waste disposal manifests are being maintained separately by DJR.

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## 2.0 Soil Sampling

Soil samples were collected by AES with oversight by NMOCD on the following dates:

- October 4 and 29, 2018;
- April 30, 2019; and
- May 31, 2019.

### 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. All samples, except SC-1 (Upper) and SC-2 (Lower) (May 2019), were laboratory analyzed for:

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

Samples SC-1 (Upper) and SC-2 (Lower) were analyzed for chlorides only.

### 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, except for SC-3, which was collected near the flowline on April 30, 2019. Sample results at this location showed 1,990 mg/kg chlorides. Subsequent sampling near the SC-3 location was conducted on May 31, 2019, and these samples, SC-1 (Upper) and SC-2 (Lower), showed chloride concentrations of 523 mg/kg and 566 mg/kg, respectively. Laboratory analytical results are summarized on Figures 3 and 4, and laboratory analytical reports are attached.

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## 3.0 Conclusions and Reclamation Activities

### 3.1 Conclusions

DJR completed excavation of historic contamination at the South Blanco Federal 23-2, sourced from the neighboring South Blanco Federal 23-2, between September 2018 and May 2019. Approximately 562 yd<sup>3</sup> of petroleum contaminated soil were excavated and transported for off-site disposal at authorized facilities between October 2018 and May 2019.

Final clearance of the excavated areas was completed during multiple sampling events October 2018 through May 2019. Final laboratory analytical results reported benzene, total BTEX, TPH (as GRO/DRO/MRO), and chloride concentrations in all samples, except SC-3 chlorides, as below applicable NMOCD action levels. Two samples, SC-1 (Upper) and SC-2 (Lower), subsequently collected in the immediate vicinity of SC-3, were below the chloride action level. No further action is recommended at this time.

### 3.2 Reclamation Activities

DJR completed backfilling of the excavation area on June 3, 2019. The area is not currently scheduled for reclamation since it is part of the active well location.

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



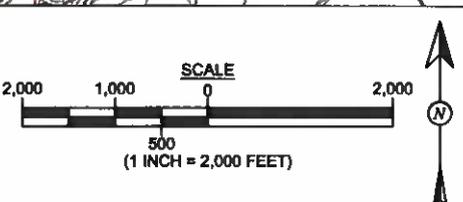
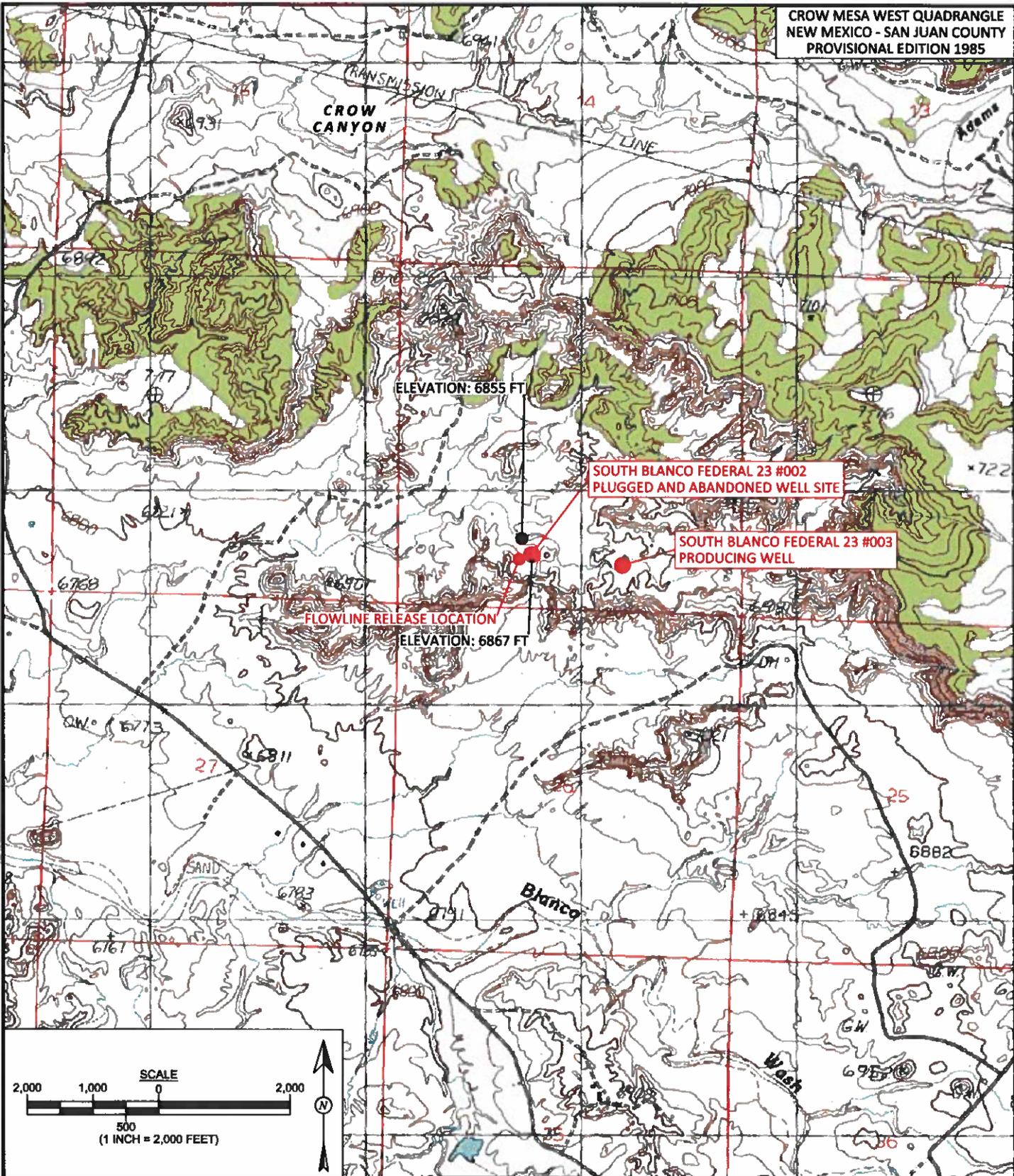
Elizabeth McNally, P.E.

**Attachments:**

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Location Map
- Figure 3. Wash Composite Sample Locations, October 2018 and April 2019
- Figure 4. Site Location Composite Sample Locations - October 2018, April and May 2019
- Figure 5. Site Location with Flowline Excavation Area (April 2019)
- Photograph Log
- Hall Analytical Report 1810334
- Envirotech Analytical Reports P810127, P905007, P905097

C:\Users\emcnally\Dropbox (Animas Environmental)\0000 aes server client projects dropbox\2019 Client Projects\DJR Operating\South Blanco 23-3\Reports\South Blanco 23-3 Exc Clearance Report 061819.docx

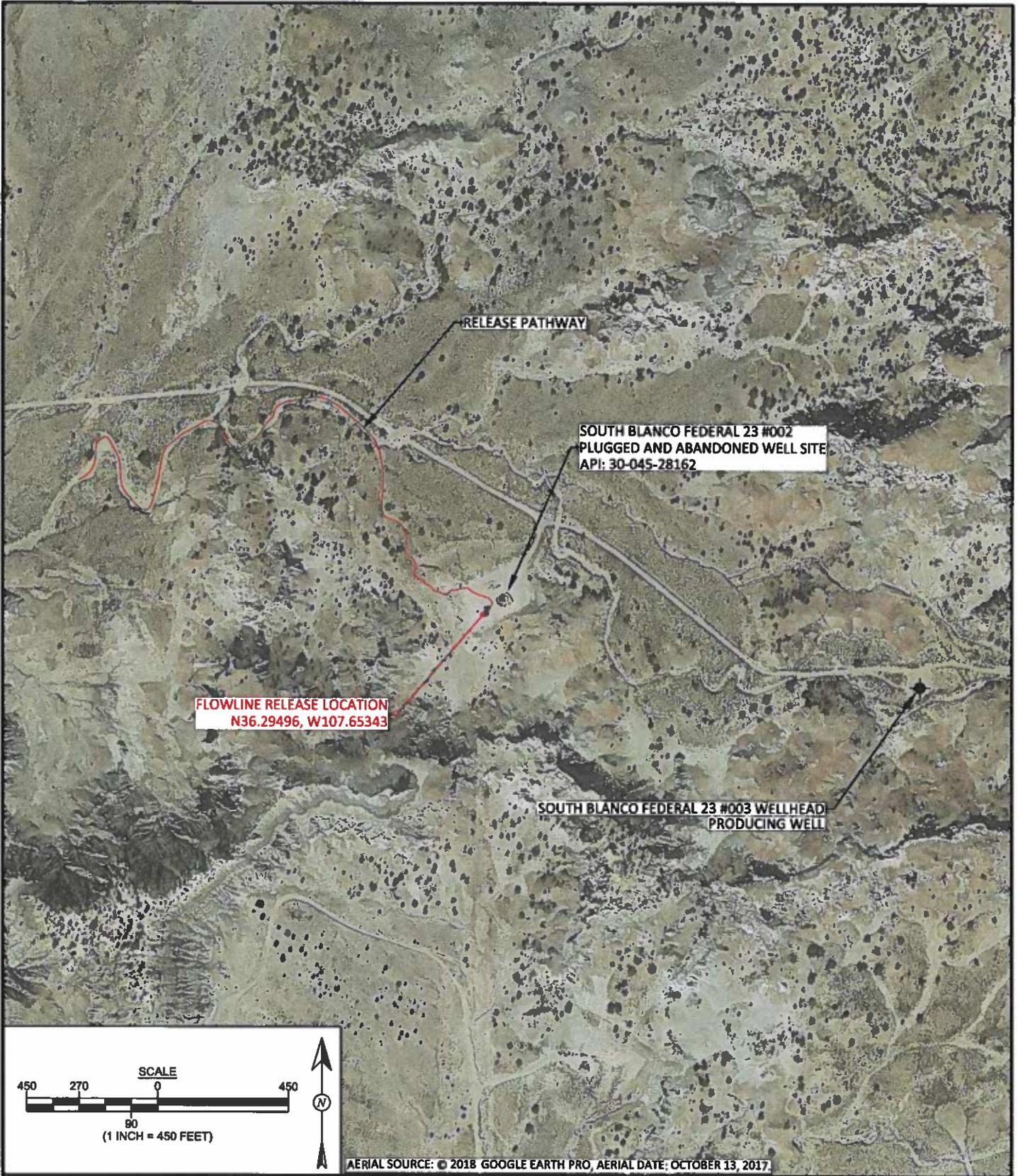
CROW MESA WEST QUADRANGLE  
 NEW MEXICO - SAN JUAN COUNTY  
 PROVISIONAL EDITION 1985



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

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> September 21, 2018
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> June 20, 2019
<b>CHECKED BY:</b> E. McNally	<b>DATE CHECKED:</b> June 20, 2019
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> June 20, 2019

**FIGURE 1**  
**TOPOGRAPHIC SITE LOCATION MAP**  
 DJR OPERATING  
 SOUTH BLANCO FEDERAL 23 #003  
 API: 30-045-28163  
 SW¼ SE¼, SECTION 23, T24N, R8W  
 SAN JUAN COUNTY, NEW MEXICO  
 N36.29420, W107.64853



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<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> September 21, 2018
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> June 20, 2019
<b>CHECKED BY:</b> E. McNally	<b>DATE CHECKED:</b> June 20, 2019
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> June 20, 2019

**FIGURE 2**

**AERIAL SITE LOCATION MAP**  
DJR OPERATING  
SOUTH BLANCO FEDERAL 23 #003  
API: 30-045-28163  
SW¼ SE¼, SECTION 23, T24N, R8W  
SAN JUAN COUNTY, NEW MEXICO  
N36.29420, W107.64853

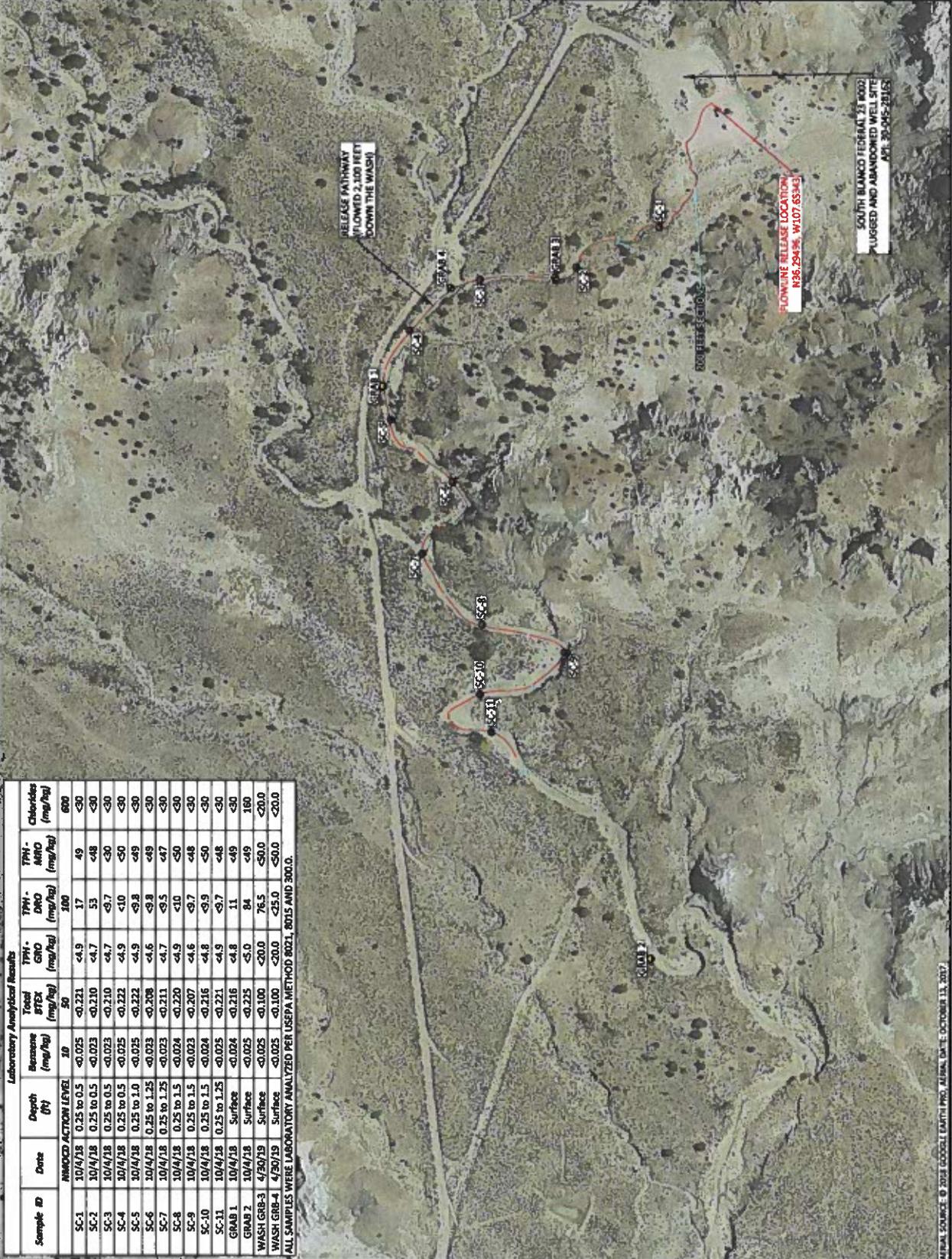
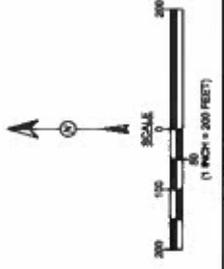
**FIGURE 3**

**WASH COMPOSITE SAMPLE LOCATIONS  
OCTOBER 2018 AND APRIL 2019**  
DIR OPERATING  
SOUTH BLANK FEDERAL 23 8003  
APT: 30-045-28163  
SW¼, SE¼, SECTION 23, T24N, R8W  
SAN JUAN COUNTY, NEW MEXICO  
NS6.29420, W107.64853



**DRAWN BY:** C. Lammiman  
**DATE DRAWN:** October 10, 2018  
**REVISIONS BY:** C. Lammiman  
**DATE REVISED:** June 20, 2019  
**CHECKED BY:** E. McNulty  
**DATE CHECKED:** June 20, 2019  
**APPROVED BY:** L. McNulty  
**DATE APPROVED:** June 20, 2019

**LEGEND**  
● 5-POINT COMPOSITE SAMPLE LOCATIONS (OCTOBER 2018)  
○ GRAB SAMPLE LOCATIONS (OCTOBER 2018)  
○ GRAB SAMPLE LOCATIONS (APRIL 2019)



**Laboratory Analytical Results**

Sample ID	Date	Depth (ft)	Biomass (mg/kg)	Total PFTEX (mg/kg)	TPM - GRO (mg/kg)	TPM - DRO (mg/kg)	TPM - AMRO (mg/kg)	Chlorides (mg/kg)
			10	50	100	100		600
SC-1	10/4/18	0.25 to 0.5	<0.025	<0.221	<4.9	17	49	<30
SC-2	10/4/18	0.25 to 0.5	<0.023	<0.210	<4.7	55	<48	<30
SC-3	10/4/18	0.25 to 0.5	<0.023	<0.210	<4.7	<9.7	<30	<30
SC-4	10/4/18	0.25 to 0.5	<0.025	<0.222	<4.9	<1.0	<30	<30
SC-5	10/4/18	0.25 to 1.0	<0.025	<0.222	<4.9	<9.8	<49	<30
SC-6	10/4/18	0.25 to 1.25	<0.023	<0.208	<4.6	<9.8	<49	<30
SC-7	10/4/18	0.25 to 1.25	<0.023	<0.211	<4.7	<9.5	<47	<30
SC-8	10/4/18	0.25 to 1.5	<0.024	<0.220	<4.9	<1.0	<50	<30
SC-9	10/4/18	0.25 to 1.5	<0.024	<0.207	<4.6	<9.7	<48	<30
SC-10	10/4/18	0.25 to 1.5	<0.024	<0.216	<4.8	<9.9	<50	<30
SC-11	10/4/18	0.25 to 1.25	<0.025	<0.221	<4.9	<9.7	<48	<30
GRAB 1	10/4/18	Surface	<0.024	<0.216	<4.8	11	<49	<30
GRAB 2	10/4/18	Surface	<0.025	<0.225	<5.0	84	<49	160
WASH GRB-3	4/30/19	Surface	<0.025	<0.100	<20.0	76.5	<50.0	<20.0
WASH GRB-4	4/30/19	Surface	<0.025	<0.100	<20.0	<25.0	<50.0	<20.0

ALL SAMPLES WERE LABORATORY ANALYZED PER USEPA METHOD 8021, 8015 AND 300.0.

AIRIAL SOURCE: © 2018 GOOGLE EARTH PRO. AIRSNAL DATE: OCTOBER 13, 2017.



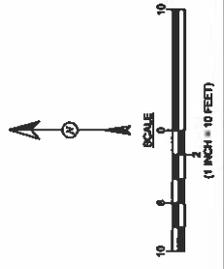
**FIGURE 5**

**SITE LOCATION WITH FLOWLINE  
EXCAVATION AREA**  
 OUR OPERATING  
 SOUTH BLANCO FEDERAL 23 #008  
 API: 30-045-28163  
 SW¼ SE¼, SECTION 23, T24N, R8W  
 SAN JUAN COUNTY, NEW MEXICO  
 N36.29420, W107.64853



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<b>DRAWN BY:</b> C. Lammeman	<b>DATE DRAWN:</b> April 26, 2019
<b>REVISIONS BY:</b> C. Lammeman	<b>DATE REVISED:</b> June 20, 2019
<b>CHECKED BY:</b> E. McNelly	<b>DATE CHECKED:</b> June 20, 2019
<b>APPROVED BY:</b> E. McNelly	<b>DATE APPROVED:</b> June 20, 2019



AIRPHOTO SOURCE: © INTERPLANETION AERIAL IMAGING, NEWARK, NEW JERSEY, 2013

**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 1: South excavation wall. Date taken: 4/30/19.



Photo 2: East (right) and north (left) excavation walls. Date taken: 4/30/19.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 3: East (left) and south (right) excavation walls. Date taken: 4/30/2019.



Photo 4: West (left) and north (right) excavation walls. Date taken: 4/30/2019.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 5: Completion of backfilling the excavation. Date taken: 6/10/2019.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 27: S-27 (36.29660, -107.65612). Date taken: 10/04/18.

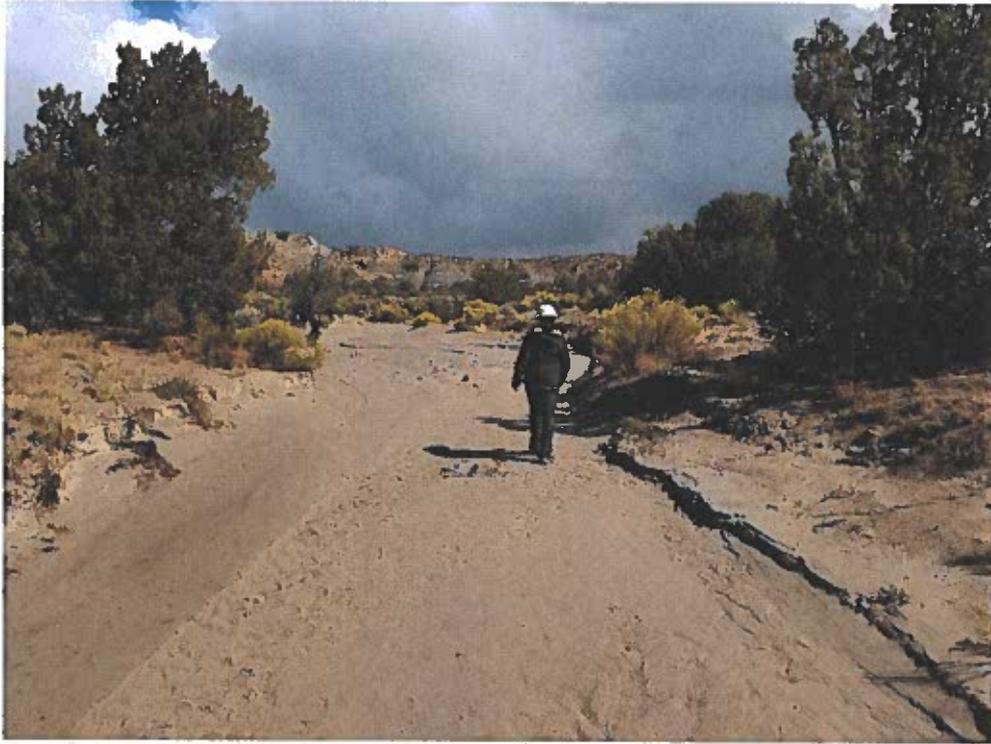
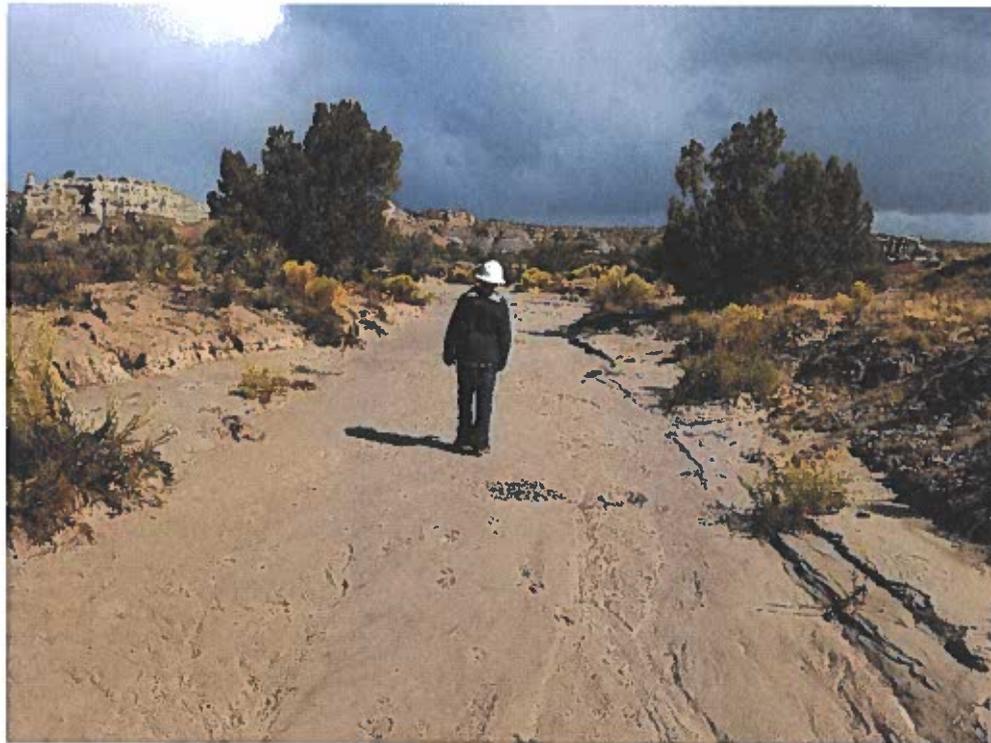


Photo 28: S-28 (36.29652, -107.65622). Date taken: 10/04/18.



**NMOC**

1

**JUL 18 2019**

**DISTRICT III**

**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 29: S-29 (36.29644, -107.65633). Date taken: 10/04/18.



Photo 30: S-30 (36.29648, -107.65646). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 31: S-31 (36.29659, -107.65656). Date taken: 10/04/18.



Photo 32: S-32 (36.29669, -107.65662). Date taken: 10/04/18.



**South Blanco Federal 23-3  
API #30-045-28163, Incident No. NVF 1826951457  
September 2018 Release**

Photo 33: S-33 (36.29670, -107.65675). Date taken: 10/04/18.



Photo 34: S-34 (36.29667, -107.65675). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 35: S-35 (36.29662, -107.65700). Date taken: 10/04/18.

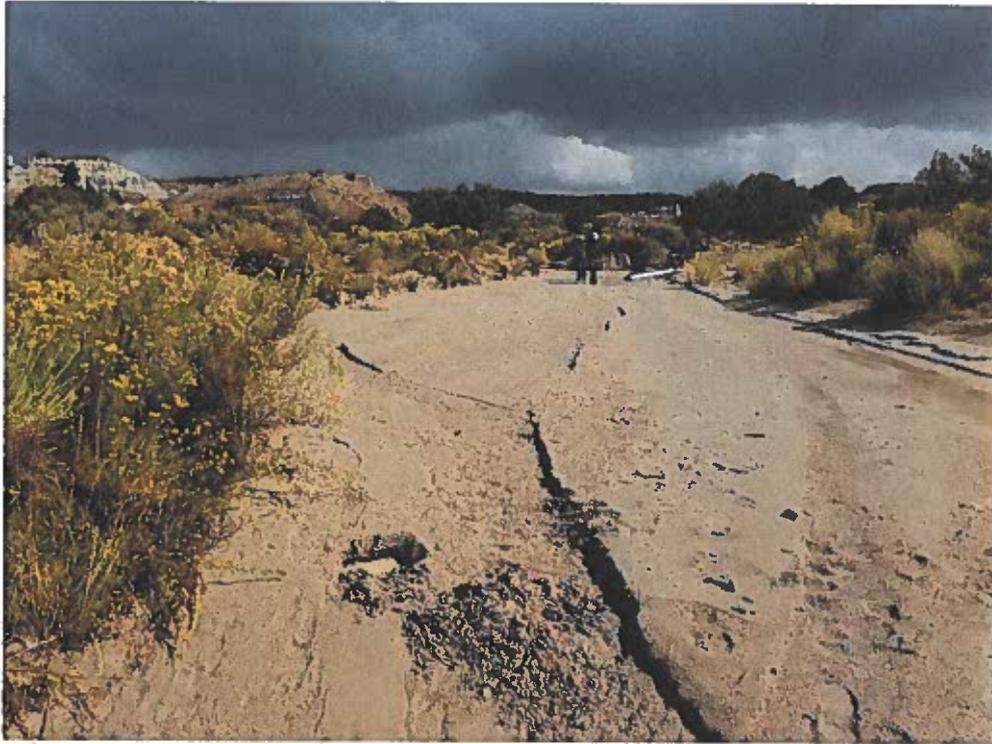
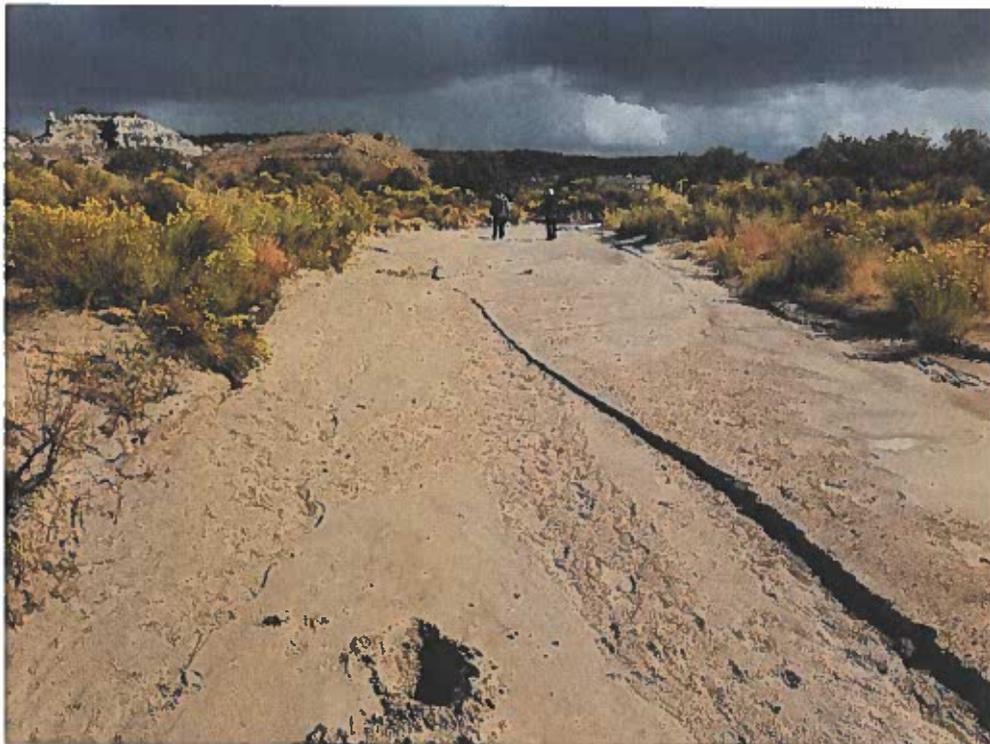


Photo 36: S-36 (36.29655, -107.65712). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 37: S-37 (36.29646, -107.65721). Date taken: 10/04/18.



Photo 38: S-38 (36.29635, -107.65727). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 39: S-39 (36.29624, -107.65733). Date taken: 10/04/18.

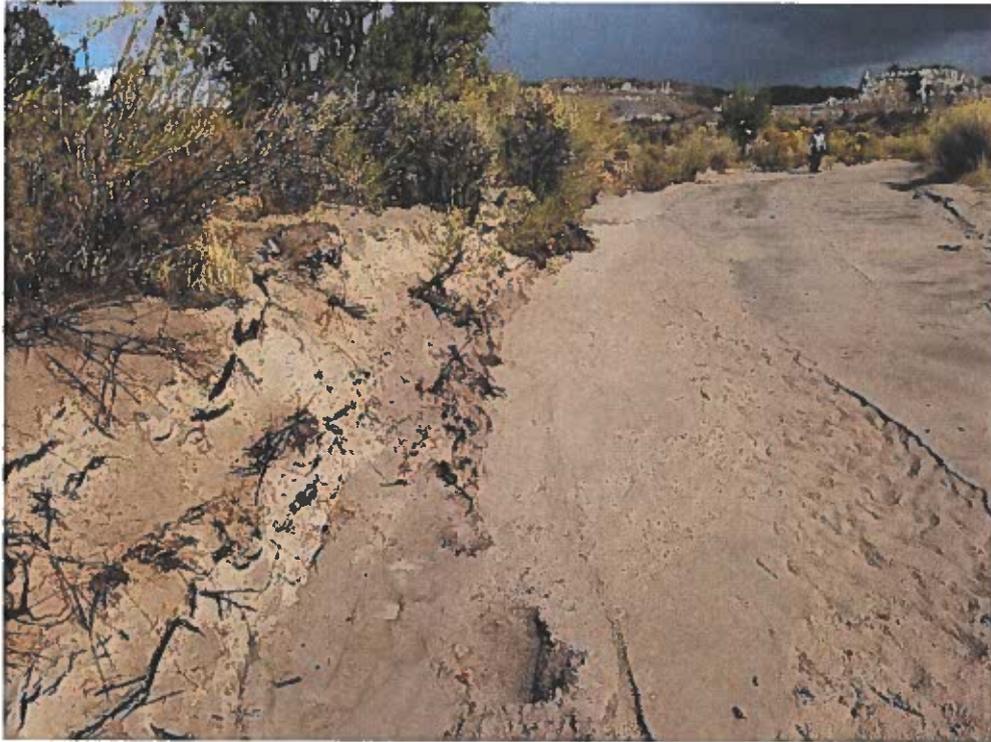


Photo 40: S-40 (36.29612, -107.65733). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 41: S-41 (36.29602, -107.65733). Date taken: 10/04/18.

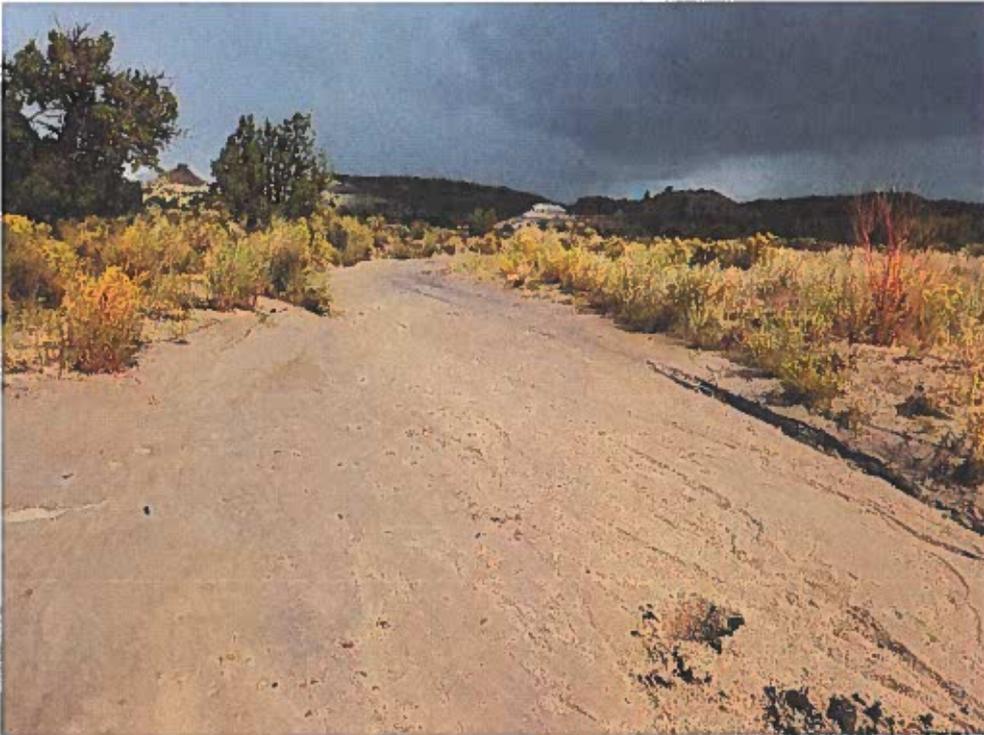
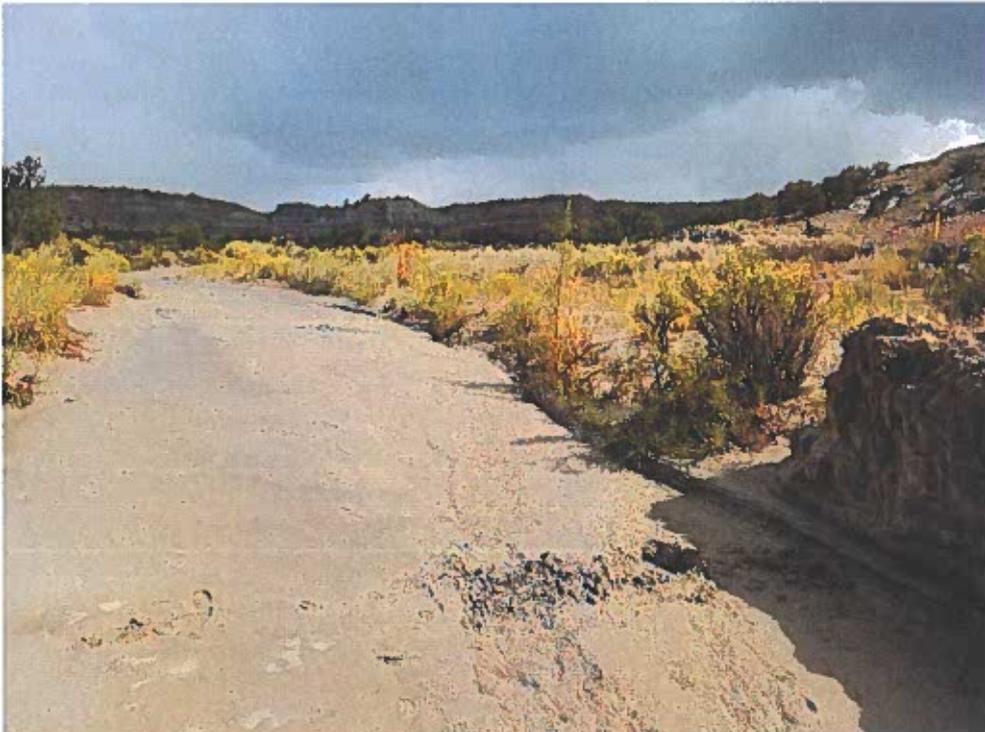


Photo 42: S-42 (36.29591, -107.65736). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 43: S-43 (36.29585, -107.65746). Date taken: 10/04/18.



Photo 44: S-44 (36.29592, -107.65755). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 45: S-45 (36.29600, -107.65765). Date taken: 10/04/18.



Photo 46: S-46 (36.29611, -107.65773). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 47: S-47 (36.29623, -107.65772). Date taken: 10/04/18.



Photo 48: S-48 (36.29634, -107.65778). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 49: S-49 (36.29647, -107.65777). Date taken: 10/04/18.



Photo 50: S-50 (36.29657, -107.65785). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 51: S-51 (36.29654, -107.65801). Date taken: 10/04/18.



Photo 52: S-52 (36.29641, -107.65804). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 53: S-53 (36.29629, -107.65803). Date taken: 10/04/18.



Photo 54: S-54 (36.29614, -107.65810). Date taken: 10/04/18.



**South Blanco Federal 23-3**  
**API #30-045-28163, Incident No. NVF 1826951457**  
**September 2018 Release**

Photo 55: S-55 (36.29615, -107.65829). Date taken: 10/04/18.





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

October 10, 2018

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

RE: DJR South Blanco 23-3

OrderNo.: 1810334

Dear Tami Knight:

Hall Environmental Analysis Laboratory received 13 sample(s) on 10/5/2018 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 9:41:00 AM

Lab ID: 1810334-001

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 11:12:18 AM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: lrm
Diesel Range Organics (DRO)	17	9.8		mg/Kg	1	10/9/2018 4:55:12 PM	40849
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2018 4:55:12 PM	40849
Surr: DNOP	107	50.6-138		%Rec	1	10/9/2018 4:55:12 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2018 11:11:36 AM	40841
Surr: BFB	90.2	15-316		%Rec	1	10/8/2018 11:11:36 AM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/8/2018 11:11:36 AM	40841
Toluene	ND	0.049		mg/Kg	1	10/8/2018 11:11:36 AM	40841
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2018 11:11:36 AM	40841
Xylenes, Total	ND	0.098		mg/Kg	1	10/8/2018 11:11:36 AM	40841
Surr: 4-Bromofluorobenzene	95.5	80-120		%Rec	1	10/8/2018 11:11:36 AM	40841

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

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

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-2

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 9:54:00 AM

Lab ID: 1810334-002

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/8/2018 11:49:32 AM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	53	9.5		mg/Kg	1	10/9/2018 5:19:23 PM	40849
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2018 5:19:23 PM	40849
Surr: DNOP	117	50.6-138		%Rec	1	10/9/2018 5:19:23 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/8/2018 12:21:44 PM	40841
Surr: BFB	92.5	15-316		%Rec	1	10/8/2018 12:21:44 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	10/8/2018 12:21:44 PM	40841
Toluene	ND	0.047		mg/Kg	1	10/8/2018 12:21:44 PM	40841
Ethylbenzene	ND	0.047		mg/Kg	1	10/8/2018 12:21:44 PM	40841
Xylenes, Total	ND	0.093		mg/Kg	1	10/8/2018 12:21:44 PM	40841
Surr: 4-Bromofluorobenzene	96.9	80-120		%Rec	1	10/8/2018 12:21:44 PM	40841

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

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

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 10:02:00 AM

Lab ID: 1810334-003

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/8/2018 12:01:57 PM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>lrm</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/9/2018 5:43:43 PM	40849
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2018 5:43:43 PM	40849
Surr: DNOP	111	50.6-138		%Rec	1	10/9/2018 5:43:43 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/8/2018 1:32:16 PM	40841
Surr: BFB	87.7	15-316		%Rec	1	10/8/2018 1:32:16 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	10/8/2018 1:32:16 PM	40841
Toluene	ND	0.047		mg/Kg	1	10/8/2018 1:32:16 PM	40841
Ethylbenzene	ND	0.047		mg/Kg	1	10/8/2018 1:32:16 PM	40841
Xylenes, Total	ND	0.093		mg/Kg	1	10/8/2018 1:32:16 PM	40841
Surr: 4-Bromofluorobenzene	95.6	80-120		%Rec	1	10/8/2018 1:32:16 PM	40841

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

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

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-4

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 10:19:00 AM

Lab ID: 1810334-004

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/8/2018 12:14:21 PM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2018 6:07:54 PM	40849
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2018 6:07:54 PM	40849
Surr: DNOP	113	50.6-138		%Rec	1	10/9/2018 6:07:54 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2018 1:55:40 PM	40841
Surr: BFB	87.5	15-316		%Rec	1	10/8/2018 1:55:40 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	10/8/2018 1:55:40 PM	40841
Toluene	ND	0.049		mg/Kg	1	10/8/2018 1:55:40 PM	40841
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2018 1:55:40 PM	40841
Xylenes, Total	ND	0.099		mg/Kg	1	10/8/2018 1:55:40 PM	40841
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	10/8/2018 1:55:40 PM	40841

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

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

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 10:34:00 AM

Lab ID: 1810334-005

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/8/2018 12:26:46 PM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>lrm</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/9/2018 6:32:18 PM	40849
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2018 6:32:18 PM	40849
Surr: DNOP	110	50.6-138		%Rec	1	10/9/2018 6:32:18 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2018 2:18:59 PM	40841
Surr: BFB	90.0	15-316		%Rec	1	10/8/2018 2:18:59 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	10/8/2018 2:18:59 PM	40841
Toluene	ND	0.049		mg/Kg	1	10/8/2018 2:18:59 PM	40841
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2018 2:18:59 PM	40841
Xylenes, Total	ND	0.099		mg/Kg	1	10/8/2018 2:18:59 PM	40841
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	10/8/2018 2:18:59 PM	40841

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

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

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-6

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 10:47:00 AM

Lab ID: 1810334-006

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/8/2018 1:03:59 PM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>lrm</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/9/2018 6:56:32 PM	40849
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2018 6:56:32 PM	40849
Surr: DNOP	113	50.6-138		%Rec	1	10/9/2018 6:56:32 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/8/2018 2:42:21 PM	40841
Surr: BFB	86.8	15-316		%Rec	1	10/8/2018 2:42:21 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	10/8/2018 2:42:21 PM	40841
Toluene	ND	0.046		mg/Kg	1	10/8/2018 2:42:21 PM	40841
Ethylbenzene	ND	0.046		mg/Kg	1	10/8/2018 2:42:21 PM	40841
Xylenes, Total	ND	0.093		mg/Kg	1	10/8/2018 2:42:21 PM	40841
Surr: 4-Bromofluorobenzene	94.8	80-120		%Rec	1	10/8/2018 2:42:21 PM	40841

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

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

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-7

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 11:01:00 AM

Lab ID: 1810334-007

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/8/2018 1:16:24 PM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>lrm</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/9/2018 7:20:45 PM	40849
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/9/2018 7:20:45 PM	40849
Surr: DNOP	114	50.6-138		%Rec	1	10/9/2018 7:20:45 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/8/2018 3:05:41 PM	40841
Surr: BFB	87.5	15-316		%Rec	1	10/8/2018 3:05:41 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	10/8/2018 3:05:41 PM	40841
Toluene	ND	0.047		mg/Kg	1	10/8/2018 3:05:41 PM	40841
Ethylbenzene	ND	0.047		mg/Kg	1	10/8/2018 3:05:41 PM	40841
Xylenes, Total	ND	0.094		mg/Kg	1	10/8/2018 3:05:41 PM	40841
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	10/8/2018 3:05:41 PM	40841

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

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

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-8

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 11:17:00 AM

Lab ID: 1810334-008

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/8/2018 1:28:49 PM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2018 7:44:54 PM	40849
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2018 7:44:54 PM	40849
Surr: DNOP	113	50.6-138		%Rec	1	10/9/2018 7:44:54 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2018 3:29:08 PM	40841
Surr: BFB	88.8	15-316		%Rec	1	10/8/2018 3:29:08 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	10/8/2018 3:29:08 PM	40841
Toluene	ND	0.049		mg/Kg	1	10/8/2018 3:29:08 PM	40841
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2018 3:29:08 PM	40841
Xylenes, Total	ND	0.098		mg/Kg	1	10/8/2018 3:29:08 PM	40841
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	10/8/2018 3:29:08 PM	40841

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

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

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** SC-9

**Project:** DJR South Blanco 23-3

**Collection Date:** 10/4/2018 11:30:00 AM

**Lab ID:** 1810334-009

**Matrix:** SOIL

**Received Date:** 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/8/2018 1:41:14 PM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/9/2018 8:09:09 PM	40849
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2018 8:09:09 PM	40849
Surr: DNOP	114	50.6-138		%Rec	1	10/9/2018 8:09:09 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/8/2018 6:59:35 PM	40841
Surr: BFB	88.6	15-316		%Rec	1	10/8/2018 6:59:35 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	10/8/2018 6:59:35 PM	40841
Toluene	ND	0.046		mg/Kg	1	10/8/2018 6:59:35 PM	40841
Ethylbenzene	ND	0.046		mg/Kg	1	10/8/2018 6:59:35 PM	40841
Xylenes, Total	ND	0.092		mg/Kg	1	10/8/2018 6:59:35 PM	40841
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	10/8/2018 6:59:35 PM	40841

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

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

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-10

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 11:42:00 AM

Lab ID: 1810334-010

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/8/2018 1:53:39 PM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/9/2018 8:33:16 PM	40849
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2018 8:33:16 PM	40849
Surr: DNOP	116	50.6-138		%Rec	1	10/9/2018 8:33:16 PM	40849
<b>EPA METHOD 8016D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/8/2018 12:35:38 PM	40841
Surr: BFB	89.5	15-316		%Rec	1	10/8/2018 12:35:38 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	10/8/2018 12:35:38 PM	40841
Toluene	ND	0.048		mg/Kg	1	10/8/2018 12:35:38 PM	40841
Ethylbenzene	ND	0.048		mg/Kg	1	10/8/2018 12:35:38 PM	40841
Xylenes, Total	ND	0.096		mg/Kg	1	10/8/2018 12:35:38 PM	40841
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	10/8/2018 12:35:38 PM	40841

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

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

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: SC-11

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 11:55:00 AM

Lab ID: 1810334-011

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/8/2018 2:06:04 PM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/9/2018 8:57:32 PM	40849
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2018 8:57:32 PM	40849
Surr: DNOP	110	50.6-138		%Rec	1	10/9/2018 8:57:32 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2018 12:58:14 PM	40841
Surr: BFB	88.0	15-316		%Rec	1	10/8/2018 12:58:14 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	10/8/2018 12:58:14 PM	40841
Toluene	ND	0.049		mg/Kg	1	10/8/2018 12:58:14 PM	40841
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2018 12:58:14 PM	40841
Xylenes, Total	ND	0.098		mg/Kg	1	10/8/2018 12:58:14 PM	40841
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	10/8/2018 12:58:14 PM	40841

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

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

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Animas Environmental Services

Client Sample ID: Grab 1

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 10:24:00 AM

Lab ID: 1810334-012

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/8/2018 2:18:28 PM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>irm</b>
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	10/9/2018 9:21:36 PM	40849
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2018 9:21:36 PM	40849
Surr: DNOP	111	50.6-138		%Rec	1	10/9/2018 9:21:36 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/8/2018 1:20:53 PM	40841
Surr: BFB	89.2	15-316		%Rec	1	10/8/2018 1:20:53 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	10/8/2018 1:20:53 PM	40841
Toluene	ND	0.048		mg/Kg	1	10/8/2018 1:20:53 PM	40841
Ethylbenzene	ND	0.048		mg/Kg	1	10/8/2018 1:20:53 PM	40841
Xylenes, Total	ND	0.096		mg/Kg	1	10/8/2018 1:20:53 PM	40841
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	10/8/2018 1:20:53 PM	40841

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

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

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Animas Environmental Services

**Client Sample ID:** Grab 2

**Project:** DJR South Blanco 23-3

**Collection Date:** 10/4/2018 12:02:00 PM

**Lab ID:** 1810334-013

**Matrix:** SOIL

**Received Date:** 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	160	30		mg/Kg	20	10/8/2018 2:30:53 PM	40870
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	84	9.9		mg/Kg	1	10/9/2018 9:45:53 PM	40849
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2018 9:45:53 PM	40849
Surr: DNOP	108	50.6-138		%Rec	1	10/9/2018 9:45:53 PM	40849
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2018 1:43:33 PM	40841
Surr: BFB	85.3	15-316		%Rec	1	10/8/2018 1:43:33 PM	40841
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	10/8/2018 1:43:33 PM	40841
Toluene	ND	0.050		mg/Kg	1	10/8/2018 1:43:33 PM	40841
Ethylbenzene	ND	0.050		mg/Kg	1	10/8/2018 1:43:33 PM	40841
Xylenes, Total	ND	0.10		mg/Kg	1	10/8/2018 1:43:33 PM	40841
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	10/8/2018 1:43:33 PM	40841

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

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810334

11-Oct-18

Client: Animas Environmental Services

Project: DJR South Blanco 23-3

Sample ID	MB-40870	SampType:	mbk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	40870	RunNo:	54708					
Prep Date:	10/8/2018	Analysis Date:	10/8/2018	SeqNo:	1816691	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-40870	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	40870	RunNo:	54708					
Prep Date:	10/8/2018	Analysis Date:	10/8/2018	SeqNo:	1816692	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

## Qualifiers:

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810334

11-Oct-18

Client: Animas Environmental Services

Project: DJR South Blanco 23-3

Sample ID	LCS-40849	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	40849	RunNo:	54707					
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1816363	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) 47 10 50.00 0 94.2 70 130

Surr: DNOP 5.7 5.000 114 50.6 138

Sample ID	MB-40849	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	40849	RunNo:	54707					
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1816364	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 12 10.00 115 50.6 138

## Qualifiers:

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810334

11-Oct-18

Client: Animas Environmental Services

Project: DJR South Blanco 23-3

Sample ID	MB-40841	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	40841	RunNo:	54705					
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1815940	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.8	15	316			

Sample ID	LCS-40841	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	40841	RunNo:	54705					
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1815941	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	75.9	131			
Surr: BFB	1100		1000		106	15	316			

Sample ID	1810334-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-1	Batch ID:	40841	RunNo:	54705					
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1815943	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	21	4.7	23.52	0	90.1	77.8	128			
Surr: BFB	990		940.7		105	15	316			

Sample ID	1810334-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-1	Batch ID:	40841	RunNo:	54705					
Prep Date:	10/5/2018	Analysis Date:	10/8/2018	SeqNo:	1815944	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	23	4.9	24.49	0	94.9	77.8	128	9.21	20	
Surr: BFB	1100		979.4		107	15	316	0	0	

**Qualifiers:**

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810334

11-Oct-18

Client: Animas Environmental Services

Project: DJR South Blanco 23-3

Sample ID	<b>MB-40841</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>40841</b>	RunNo:	<b>54705</b>					
Prep Date:	<b>10/5/2018</b>	Analysis Date:	<b>10/8/2018</b>	SeqNo:	<b>1815960</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	80	120			

Sample ID	<b>LCS-40841</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>40841</b>	RunNo:	<b>54705</b>					
Prep Date:	<b>10/5/2018</b>	Analysis Date:	<b>10/8/2018</b>	SeqNo:	<b>1815961</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	0.91	0.025	1.000	0	90.7	77.3	128			
Toluene	0.97	0.050	1.000	0	97.1	79.2	125			
Ethylbenzene	0.97	0.050	1.000	0	97.4	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	97.8	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	<b>1810334-002AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>SC-2</b>	Batch ID:	<b>40841</b>	RunNo:	<b>54705</b>					
Prep Date:	<b>10/5/2018</b>	Analysis Date:	<b>10/8/2018</b>	SeqNo:	<b>1815964</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	0.85	0.025	0.9814	0	86.3	68.5	133			
Toluene	0.92	0.049	0.9814	0.009701	92.3	75	130			
Ethylbenzene	0.92	0.049	0.9814	0	94.0	79.4	128			
Xylenes, Total	2.8	0.098	2.944	0.02892	94.2	77.3	131			
Surr: 4-Bromofluorobenzene	0.98		0.9814		99.4	80	120			

Sample ID	<b>1810334-002AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>SC-2</b>	Batch ID:	<b>40841</b>	RunNo:	<b>54705</b>					
Prep Date:	<b>10/5/2018</b>	Analysis Date:	<b>10/8/2018</b>	SeqNo:	<b>1815965</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	0.84	0.025	0.9843	0	85.6	68.5	133	0.461	20	
Toluene	0.91	0.049	0.9843	0.009701	91.5	75	130	0.567	20	
Ethylbenzene	0.94	0.049	0.9843	0	95.1	79.4	128	1.47	20	
Xylenes, Total	2.8	0.098	2.953	0.02892	94.2	77.3	131	0.242	20	
Surr: 4-Bromofluorobenzene	0.98		0.9843		100	80	120	0	0	

**Qualifiers:**

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



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

# Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1810334

RcptNo: 1

Received By: Anne Thorne 10/5/2018 7:50:00 AM

*Anne Thorne*

Completed By: Anne Thorne 10/5/2018 9:10:45 AM

*Anne Thorne*

Reviewed By: *LB* 10/5/18

Labelled by: *AT 10/05/18*

**Chain of Custody**

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

**Log In**

3. Was an attempt made to cool the samples? Yes  No  NA   
 4. Were all samples received at a temperature of >0° C to 8.0°C Yes  No  NA   
 5. Sample(s) in proper container(s)? Yes  No   
 6. Sufficient sample volume for indicated test(s)? Yes  No   
 7. Are samples (except VOA and ONG) properly preserved? Yes  No   
 8. Was preservative added to bottles? Yes  No  NA   
 9. VOA vials have zero headspace? Yes  No  No VOA Vials   
 10. Were any sample containers received broken? Yes  No   
 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes  No   
 12. Are matrices correctly identified on Chain of Custody? Yes  No   
 13. Is it clear what analyses were requested? Yes  No   
 14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH: \_\_\_\_\_  
 (<2 or >12 unless noted)  
 Adjusted? \_\_\_\_\_  
 Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

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

Person Notified:	<u>TK</u>	Date:	<u>10/05/18</u>	<i>AKKOST'S</i>
By Whom:	<u>AS</u>	Via:	<input type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input checked="" type="checkbox"/> Fax <input type="checkbox"/> In Person	
Regarding:	<u>SLC-3 collection forms</u>			
Client Instructions:	<u>1002</u>			

16. Additional remarks: *For TK per 10/05/18*

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

**Chain-of-Custody Record**

Client: Animas Environmental Services

Mailing Address: 604 W Pinon St.

Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: tknight@animasenvironmental.com

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:

NELAP  Other

EDD (Type)

Standard  Rush 24 TAT

Project Name:

DJR South Blanco 23-3

Project #:

Project Manager:

T. Knight

Sampler: CL SJ

On Ice:  Yes  No

Sample Temperature: 69

Container Type and #

Preservative Type

HEAL No  
1810334

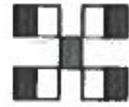
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	80218 - BTEX	8015M - DRO/GRO/MRO	300.0 Chlorides	Air Bubbles (Y or N)
10/4/18	9:41	soil	SC-1	2-4oz jars	cool	201	X	X	X	
10/4/18	9:54	soil	SC-2	2-4oz jars	cool	202	X	X	X	
10/4/18	10:02	soil	SC-3	2-4oz jars	cool	203	X	X	X	
10/4/18	10:19	soil	SC-4	2-4oz jars	cool	204	X	X	X	
10/4/18	10:34	soil	SC-5	2-4oz jars	cool	205	X	X	X	
10/4/18	10:47	soil	SC-6	2-4oz jars	cool	206	X	X	X	
10/4/18	11:01	soil	SC-7	2-4oz jars	cool	207	X	X	X	
10/4/18	11:17	soil	SC-8	2-4oz jars	cool	208	X	X	X	
10/4/18	11:30	soil	SC-9	2-4oz jars	cool	209	X	X	X	
10/4/18	11:42	soil	SC-10	2-4oz jars	cool	210	X	X	X	
10/4/18	11:55	soil	SC-11	2-4oz jars	cool	211	X	X	X	
10/4/18	10:24	soil	Grab 1	2-4oz jars	cool	212	X	X	X	
10/4/18	12:02	soil	Grab 2	2-4oz jars	cool	213	X	X	X	

Date: 10/4/18  
Time: 1624  
Relinquished by: *[Signature]*

Date: 10/4/18  
Time: 1624  
Received by: *[Signature]*

Date: 10/4/18  
Time: 0750  
Received by: *[Signature]*

Remarks: Please call with any questions



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



## Analytical Report

### Report Summary

Client: Animas Environmental Services  
Chain Of Custody Number:  
Samples Received: 10/29/2018 3:14:00PM  
Job Number: 99083-0001  
Work Order: P810127  
Project Name/Location: South Blanco 23-3

Report Reviewed By:

Date: 11/5/18

Walter Hinchman, Laboratory Director

Date: 11/5/18

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: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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**Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Base	P810127-01A	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
	P810127-01B	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
Pad 1	P810127-02A	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
	P810127-02B	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
Pad 2	P810127-03A	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
	P810127-03B	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
Grab 3	P810127-04A	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
	P810127-04B	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
Grab 4	P810127-05A	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
	P810127-05B	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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**Base  
P810127-01 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	396	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
Toluene	2050	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
Ethylbenzene	500	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
p,m-Xylene	2120	200	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
o-Xylene	1070	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
Total Xylenes	3200	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
Total BTEX	6140	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1844021	11/01/18	11/02/18	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	44.0	20.0	mg/kg	1	1844021	11/01/18	11/02/18	EPA 8015D	
Diesel Range Organics (C10-C28)	1860	25.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
Oil Range Organics (C28-C40+)	105	50.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %		50-150	1844021	11/01/18	11/02/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		137 %		50-200	1844026	11/02/18	11/02/18	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	43.3	20.0	mg/kg	1	1844024	11/02/18	11/02/18	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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**Pad 1  
P810127-02 (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	1844021	11/01/18	11/03/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %		50-150	1844021	11/01/18	11/03/18	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1844021	11/01/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	91.8	25.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %		50-150	1844021	11/01/18	11/03/18	EPA 8015D	CV3
<i>Surrogate: n-Nonane</i>		101 %		50-200	1844026	11/02/18	11/02/18	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1844024	11/02/18	11/02/18	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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**Pad 2  
P810127-03 (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	1844021	11/01/18	11/03/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	1844021	11/01/18	11/03/18	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1844021	11/01/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	33.1	25.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1844021	11/01/18	11/03/18	EPA 8015D	CV3
<i>Surrogate: n-Nonane</i>		99.4 %		50-200	1844026	11/02/18	11/02/18	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1844024	11/02/18	11/02/18	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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**Grab 3  
P810127-04 (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	1844021	11/01/18	11/03/18	EPA 8021B	
Toluene	1910	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Ethylbenzene	5000	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
p,m-Xylene	24100	200	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
o-Xylene	9770	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total Xylenes	33800	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total BTEX	40700	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		117 %		50-150	1844021	11/01/18	11/03/18	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	364	20.0	mg/kg	1	1844021	11/01/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	5930	125	mg/kg	5	1844026	11/02/18	11/02/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	250	mg/kg	5	1844026	11/02/18	11/02/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		146 %		50-150	1844021	11/01/18	11/03/18	EPA 8015D	C/V3
<i>Surrogate: n-Nonane</i>		245 %		50-200	1844026	11/02/18	11/02/18	EPA 8015D	Surr2
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1844024	11/02/18	11/02/18	EPA 300.0/9056A	

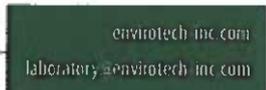
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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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**Grab 4  
P810127-05 (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	1844021	11/01/18	11/03/18	EPA 8021B	
Toluene	553	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Ethylbenzene	2180	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
p,m-Xylene	12100	200	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
o-Xylene	5170	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total Xylenes	17200	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total BTEX	20000	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		118 %		50-150	1844021	11/01/18	11/03/18	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	266	20.0	mg/kg	1	1844021	11/01/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	8660	125	mg/kg	5	1844026	11/02/18	11/02/18	EPA 8015D	
Oil Range Organics (C28-C40+)	463	250	mg/kg	5	1844026	11/02/18	11/02/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		140 %		50-150	1844021	11/01/18	11/03/18	EPA 8015D	CV3
<i>Surrogate: n-Nonane</i>		239 %		50-200	1844026	11/02/18	11/02/18	EPA 8015D	Surr2
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1844024	11/02/18	11/02/18	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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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 1844021 - Purge and Trap EPA 5030A**

<b>Blank (1844021-BLK1)</b>		Prepared: 11/01/18   Analyzed: 11/02/18 2								
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							

<b>LCS (1844021-BS1)</b>		Prepared: 11/01/18   Analyzed: 11/02/18 2								
Benzene	5140	100	ug/kg	5000		103	70-130			
Toluene	5210	100	"	5000		104	70-130			
Ethylbenzene	5260	100	"	5000		105	70-130			
p,m-Xylene	10800	200	"	10000		108	70-130			
o-Xylene	5200	100	"	5000		104	70-130			
Total Xylenes	16000	100	"	15000		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8240		"	8000		103	50-150			

<b>Matrix Spike (1844021-MS1)</b>		Source: P810127-01		Prepared: 11/01/18   Analyzed: 11/02/18 0						
Benzene	5120	100	ug/kg	5000	396	94.4	54.3-133			
Toluene	5900	100	"	5000	2050	77.1	61.4-130			
Ethylbenzene	5330	100	"	5000	500	96.5	61.4-133			
p,m-Xylene	11400	200	"	10000	2120	92.8	63.3-131			
o-Xylene	5560	100	"	5000	1070	89.7	63.3-131			
Total Xylenes	17000	100	"	15000	3200	91.7	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8200		"	8000		102	50-150			

<b>Matrix Spike Dup (1844021-MSD1)</b>		Source: P810127-01		Prepared: 11/01/18   Analyzed: 11/03/18 0						
Benzene	5090	100	ug/kg	5000	396	93.9	54.3-133	0.471	20	
Toluene	5690	100	"	5000	2050	72.9	61.4-130	3.62	20	
Ethylbenzene	5270	100	"	5000	500	95.4	61.4-133	1.08	20	
p,m-Xylene	11100	200	"	10000	2120	90.2	63.3-131	2.27	20	
o-Xylene	5430	100	"	5000	1070	87.2	63.3-131	2.29	20	
Total Xylenes	16600	100	"	15000	3200	89.2	63.3-131	2.28	20	
Surrogate: 4-Bromochlorobenzene-PID	8070		"	8000		101	50-150			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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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
<b>Batch 1844021 - Purge and Trap EPA 5030A</b>										
<b>Blank (1844021-BLK1)</b>				Prepared: 11/01/18   Analyzed: 11/02/18 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		"	8.00		101	50-150			
<b>LCS (1844021-BS2)</b>				Prepared: 11/01/18   Analyzed: 11/02/18 2						
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		"	8.00		102	50-150			
<b>Matrix Spike (1844021-MS2)</b>				Source: P810127-01		Prepared: 11/01/18   Analyzed: 11/03/18 0				
Gasoline Range Organics (C6-C10)	71.1	20.0	mg/kg	50.0	44.0	54.4	70-130			SPK 1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.30		"	8.00		104	50-150			
<b>Matrix Spike Dup (1844021-MSD2)</b>				Source: P810127-01		Prepared: 11/01/18   Analyzed: 11/03/18 0				
Gasoline Range Organics (C6-C10)	63.2	20.0	mg/kg	50.0	44.0	38.5	70-130	11.8	20	SPK 1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.24		"	8.00		103	50-150			

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laboratory@envirotech-inc.com



Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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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
<b>Batch 1844026 - DRO Extraction EPA 3570</b>										
<b>Blank (1844026-BLK1)</b>				Prepared: 11/02/18 0 Analyzed: 11/02/18 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	50.8		"	50.0		102	50-200			
<b>LCS (1844026-BS1)</b>				Prepared: 11/02/18 0 Analyzed: 11/02/18 1						
Diesel Range Organics (C10-C28)	445	25.0	mg/kg	500	ND	89.0	38-132			
Surrogate: n-Nonane	48.4		"	50.0		96.9	50-200			
<b>Matrix Spike (1844026-MS1)</b>				Source: P811001-01		Prepared: 11/02/18 0 Analyzed: 11/02/18 1				
Diesel Range Organics (C10-C28)	437	25.0	mg/kg	500	ND	87.4	38-132			
Surrogate: n-Nonane	48.5		"	50.0		97.0	50-200			
<b>Matrix Spike Dup (1844026-MSD1)</b>				Source: P811001-01		Prepared: 11/02/18 0 Analyzed: 11/02/18 1				
Diesel Range Organics (C10-C28)	427	25.0	mg/kg	500	ND	85.3	38-132	2.35	20	
Surrogate: n-Nonane	48.7		"	50.0		97.3	50-200			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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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 1844024 - Anion Extraction EPA 300.0/9056A</b>										
<b>Blank (1844024-BLK1)</b> Prepared: 11/02/18 0 Analyzed: 11/02/18 1										
Chloride	ND	20.0	mg/kg							
<b>LCS (1844024-BS1)</b> Prepared: 11/02/18 0 Analyzed: 11/02/18 1										
Chloride	257	20.0	mg/kg	250		103	90-110			
<b>Matrix Spike (1844024-MS1)</b> Source: P810127-01 Prepared: 11/02/18 0 Analyzed: 11/02/18 1										
Chloride	305	20.0	mg/kg	250	43.3	105	80-120			
<b>Matrix Spike Dup (1844024-MSD1)</b> Source: P810127-01 Prepared: 11/02/18 0 Analyzed: 11/02/18 1										
Chloride	308	20.0	mg/kg	250	43.3	106	80-120	0.763	20	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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**Notes and Definitions**

- Surr2 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- SPK1 The spike recovery is outside of quality control limits.
- CV3 CV recovery was below 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: ~~South Beach AES~~  
 Project: South Beach 23-3  
 Project Manager: James Knight  
 Address: 604 W. Palm St  
 City, State, Zip: Fort Worth, TX, 76101  
 Phone: 817-564-2281  
 Email: ~~jknight@barnesenvironmental.com~~

Report due by:  
 Attention: Amy Archuleta  
 Address: 1 Road 6263  
 City, State, Zip: Aztec, NM, 87410  
 Phone: 505-632-3476  
 Email: aarchuleta@ajrllc.com

Lab WO# P810127  
 Job Number 99083-0001  
 Analysis and Method  
 EPA Program  
 RCRA  
 CWA  
 SDWA  
 State  
 NM CO UT A  
 X

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TAT	Remarks
11:14	10-21-18	Soil	2	Base	1	X	X	X	X	X	X		
11:27	10-21-18	Soil	2	Pad 1	2	X	X	X	X	X	X		
11:41	10-21-18	Soil	2	Pad 2	3	X	X	X	X	X	X		
11:58	10-21-18	Soil	2	Grab 3	4	X	X	X	X	X	X		
11:59	10-21-18	Soil	2	Grab 4	5	X	X	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: \_\_\_\_\_

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	10/21/18	15:14	<i>[Signature]</i>	10/21/18	15:14
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Sample Matrix: S - Soil, Sd - Solid, Sg - 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 expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this CDC. The liability of the laboratory is limited to the amount paid for on the report.

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

Received on ice: *Y* N T1 T2 T3  
 AVG Temp °C: *4.0*



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## Analytical Report

### Report Summary

Client: Animas Environmental Services

Samples Received: 5/1/2019

Job Number: 17035-0028

Work Order: P905007

Project Name/Location: South Blanco 23-3

Report Reviewed By:

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

Date: 5/6/19

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: South Blanco 23-3  
Project Number: 17035-0028  
Project Manager: Elizabeth McNally

Reported:  
05/06/19 11:36

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-1	P905007-01A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-01B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-2	P905007-02A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-02B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-3	P905007-03A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-03B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-4	P905007-04A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-04B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-5	P905007-05A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-05B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-6	P905007-06A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-06B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-7	P905007-07A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-07B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-8	P905007-08A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-08B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
WASH GRB-3	P905007-09A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-09B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
WASH GRB-4	P905007-10A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-10B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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**SC-1**  
**P905007-01 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	1918032	05/02/19	05/02/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.8 %		50-150	1918032	05/02/19	05/02/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		98.0 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	238	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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**SC-2**  
**P905007-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		91.4 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	64.7	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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**SC-3**  
**P905007-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.3 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.9 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	1990	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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**SC-4  
P905007-04 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.2 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.2 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	382	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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**SC-5**  
**P905007-05 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1918032	05-02-19	05-03-19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %		50-150	1918032	05-02-19	05-03-19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		87.6 %		50-200	1918033	05-02-19	05-03-19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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**SC-6  
P905007-06 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.4 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		84.4 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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**SC-7  
P905007-07 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		90.9 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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**SC-8**  
**P905007-08 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.9 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		92.0 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	171	20.0	mg/kg	1	1918037	05/02/19	05/03/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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**WASH GRB-3  
P905007-09 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	76.5	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.5 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		91.5 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1918037	05/02/19	05/03/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Bianco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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**WASH GRB-4  
P905007-10 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1918032	05-02-19	05-03-19	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.1 %		50-150	1918032	05-02-19	05-03-19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		88.6 %		50-200	1918033	05-02-19	05-03-19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1918037	05/02/19	05/03/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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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 1918032 - Purge and Trap EPA 5030A**

<b>Blank (1918032-BLK1)</b>				Prepared: 05/01/19 1 Analyzed: 05/02/19 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	8.26		"	8.00		103	50-150			

<b>LCS (1918032-BS1)</b>				Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Benzene	4.66	0.0250	mg/kg	5.00		93.2	70-130			
Toluene	5.10	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.13	0.0250	"	5.00		103	70-130			
p,m-Xylene	10.6	0.0500	"	10.0		106	70-130			
o-Xylene	5.13	0.0250	"	5.00		103	70-130			
Total Xylenes	15.7	0.0250	"	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		"	8.00		102	50-150			

<b>Matrix Spike (1918032-MS1)</b>				Source: P905005-01		Prepared: 05/01/19 1 Analyzed: 05/02/19 1				
Benzene	4.49	0.0250	mg/kg	5.00	0.0309	89.1	54.3-133			
Toluene	5.37	0.0250	"	5.00	0.790	91.7	61.4-130			
Ethylbenzene	5.23	0.0250	"	5.00	0.315	98.3	61.4-133			
p,m-Xylene	16.0	0.0500	"	10.0	7.79	82.2	63.3-131			
o-Xylene	6.61	0.0250	"	5.00	2.10	90.3	63.3-131			
Total Xylenes	22.6	0.0250	"	15.0	9.89	84.9	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.70		"	8.00		96.2	50-150			

<b>Matrix Spike Dup (1918032-MSD1)</b>				Source: P905005-01		Prepared: 05/01/19 1 Analyzed: 05/02/19 1				
Benzene	4.40	0.0250	mg/kg	5.00	0.0309	87.4	54.3-133	1.87	20	
Toluene	5.30	0.0250	"	5.00	0.790	90.2	61.4-130	1.42	20	
Ethylbenzene	5.13	0.0250	"	5.00	0.315	96.3	61.4-133	1.97	20	
p,m-Xylene	15.5	0.0500	"	10.0	7.79	77.4	63.3-131	3.05	20	
o-Xylene	6.41	0.0250	"	5.00	2.10	86.3	63.3-131	3.05	20	
Total Xylenes	21.9	0.0250	"	15.0	9.89	80.3	63.3-131	3.05	20	
Surrogate: 4-Bromochlorobenzene-PID	7.58		"	8.00		94.7	50-150			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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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
<b>Batch 1918032 - Purge and Trap EPA 5030A</b>										
<b>Blank (1918032-BLK1)</b>					Prepared: 05/01/19   Analyzed: 05/02/19					
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		"	8.00		94.7	50-150			
<b>LCS (1918032-BS2)</b>					Prepared: 05/01/19   Analyzed: 05/02/19					
Gasoline Range Organics (C6-C10)	48.8	20.0	mg/kg	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		"	8.00		96.2	50-150			
<b>Matrix Spike (1918032-MS2)</b>					Source: P905005-01   Prepared: 05/01/19   Analyzed: 05/02/19					
Gasoline Range Organics (C6-C10)	138	20.0	mg/kg	50.0	123	30.3	70-130			SPK 1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		"	8.00		101	50-150			
<b>Matrix Spike Dup (1918032-MSD2)</b>					Source: P905005-01   Prepared: 05/01/19   Analyzed: 05/02/19					
Gasoline Range Organics (C6-C10)	135	20.0	mg/kg	50.0	123	24.0	70-130	2.31	20	SPK 1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.18		"	8.00		102	50-150			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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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
<b>Batch 1918033 - DRO Extraction EPA 3570</b>										
<b>Blank (1918033-BLK1)</b>				Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	45.7		"	50.0		91.4	50-200			
<b>LCS (1918033-BS1)</b>				Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500		95.2	38-132			
Surrogate: n-Nonane	44.4		"	50.0		88.9	50-200			
<b>Matrix Spike (1918033-MS1)</b>				Source: P905005-01		Prepared: 05/02/19 0 Analyzed: 05/02/19 1				
Diesel Range Organics (C10-C28)	1180	25.0	mg/kg	500	767	81.6	38-132			
Surrogate: n-Nonane	54.2		"	50.0		108	50-200			
<b>Matrix Spike Dup (1918033-MSD1)</b>				Source: P905005-01		Prepared: 05/02/19 0 Analyzed: 05/02/19 1				
Diesel Range Organics (C10-C28)	1140	25.0	mg/kg	500	767	74.3	38-132	3.18	20	
Surrogate: n-Nonane	51.5		"	50.0		103	50-200			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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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 1918037 - Anion Extraction EPA 300.0/9056A</b>										
<b>Blank (1918037-BLK1)</b> Prepared: 05/02/19 0 Analyzed: 05/02/19 1										
Chloride	ND	20.0	mg/kg							
<b>LCS (1918037-BS1)</b> Prepared: 05/02/19 0 Analyzed: 05/02/19 1										
Chloride	243	20.0	mg/kg	250		97.1	90-110			
<b>Matrix Spike (1918037-MS1)</b> Source: P904133-01 Prepared: 05/02/19 0 Analyzed: 05/02/19 1										
Chloride	437	20.0	mg/kg	250	186	101	80-120			
<b>Matrix Spike Dup (1918037-MSD1)</b> Source: P904133-01 Prepared: 05/02/19 0 Analyzed: 05/02/19 1										
Chloride	440	20.0	mg/kg	250	186	102	80-120	0.718	20	

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Animas Environmental Services	Project Name:	South Blanco 23-3	
624 E. Comanche St.	Project Number:	17035-0028	Reported:
Farmington NM, 87401-6815	Project Manager:	Elizabeth McNally	05/06/19 11:36

**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: AES  
 Project: South Blanco 23-3  
 Project Manager: Eliz. McNally/D. Reese  
 Address: 624 E. Comanche St.  
 City, State, Zip: Farmington, NM 87401  
 Phone: 505-564-2281  
 Email: emcnally@animasenvironmental.com; d

Report Attention  
 Bill To DJR  
 Attention: Amy Archuleta: ~~505-632-3476~~  
 Address: 1 Road 3263  
 City, State, Zip: Aztec, NM 87410  
 Phone: 505-632-3476  
 Email: aarchuleta@dlrlc.com

Lab WO#	Job Number	TAT		EPA Program		
		1D	3D	RCRA	SDWA	
P905007	17635-0038		<input checked="" type="checkbox"/>			
Analysis and Method						
DRO/ORD by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3000	TPH 418.1
X	X	X	X	X	X	
X	X	X	X	X	X	
X	X	X	X	X	X	
X	X	X	X	X	X	
X	X	X	X	X	X	
X	X	X	X	X	X	
X	X	X	X	X	X	
X	X	X	X	X	X	
X	X	X	X	X	X	
X	X	X	X	X	X	
X	X	X	X	X	X	
X	X	X	X	X	X	

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Remarks
11:50	30-Apr 2019	S	2	SC-1	1	
11:59	30-Apr 2019	S	2	SC-2	2	
13:03	30-Apr 2019	S	2	SC-3	3	
13:22	30-Apr 2019	S	2	SC-4	4	
13:16	30-Apr 2019	S	2	SC-5	5	
13:30	30-Apr 2019	S	2	SC-6	6	
13:26	30-Apr 2019	S	2	SC-7	7	
13:09	30-Apr 2019	S	2	SC-8	8	
13:45	30-Apr 2019	S	2	GRB-3	9	WASH
13:50	30-Apr 2019	S	2	GRB-4	10	WASH

Additional Instructions: Bill to DJR

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: Greg Beane

Relinquished by: (Signature) [Signature] Date: 5/1/19 Time: 4:45 pm  
 Received by: (Signature) [Signature] Date: 5-1-19 Time: 4:45 pm

Relinquished by: (Signature) [Signature] Date: [ ] Time: [ ]  
 Received by: (Signature) [Signature] Date: [ ] Time: [ ]

Lab Use Only  
 Job Number: 17635-0038  
 Analysis and Method: [ ]  
 State: [ ]  
 NM CO UT AZ  
 X

Received on ice:  Y /  N  
 AVG Temp °C: 4  
 T1: [ ] T2: [ ] T3: [ ]

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 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.

per Kern 5.2.19  
 TAT 3D





## Analytical Report

### Report Summary

Client: Animas Environmental Services

Samples Received: 5/31/2019

Job Number: 17035-0028

Work Order: P905097

Project Name/Location: South Blanco 23-3

Report Reviewed By:

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

Date: 6/4/19

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: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 06/04/19 17:03
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-1 (Upper)	P905097-01A	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.
	P905097-01B	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.
	P905097-01C	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.
SC-2 (Lower)	P905097-02A	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.
	P905097-02B	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.
	P905097-02C	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.

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**SC-1 (Upper)  
P905097-01 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Anions by 300.0/9056A</b>									
Chloride	523	20.0	mg/kg	1	1923001	06/03/19	06/03/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 06/04/19 17:03
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**SC-2 (Lower)  
P905097-02 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Anions by 300.0/9056A</b>									
Chloride	566	20.0	mg/kg	1	1923001	06/03/19	06/03/19	EPA 300.0/9056A	

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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 1923001 - Anion Extraction EPA 300.0/9056A</b>										
<b>Blank (1923001-BLK1)</b> Prepared: 06/03/19 0 Analyzed: 06/03/19 1										
Chloride	ND	20.0	mg/kg							
<b>LCS (1923001-BS1)</b> Prepared: 06/03/19 0 Analyzed: 06/03/19 1										
Chloride	254	20.0	mg/kg	250		102	90-110			
<b>Matrix Spike (1923001-MS1)</b> Source: P905097-01 Prepared: 06/03/19 0 Analyzed: 06/03/19 1										
Chloride	811	20.0	mg/kg	250	523	115	80-120			
<b>Matrix Spike Dup (1923001-MSD1)</b> Source: P905097-01 Prepared: 06/03/19 0 Analyzed: 06/03/19 2										
Chloride	841	20.0	mg/kg	250	523	127	80-120	3.64	20	SPK1

**QC Summary Report**

**Comment:**

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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**Notes and Definitions**

- SPK 1 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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