

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-144  
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.  
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

**Pit, Below-Grade Tank, or  
Proposed Alternative Method Permit or Closure Plan Application**

- Type of action: ☐ Below grade tank registration  
☐ Permit of a pit or proposed alternative method  
☒ Closure of a pit, below-grade tank, or proposed alternative method  
☐ Modification to an existing permit/or registration  
☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

**Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request**

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.  
Operator: DJR Operating LLC OGRID #: 371838  
Address: 1 Road 6263, Aztec, New Mexico, 87410  
Facility or well name: Jake Johnson #1  
API Number: 30-045-27167 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr L Section 32 Township 25N Range 11W County: San Juan  
Center of Proposed Design: Latitude 36.35539 Longitude -108.03281 NAD83  
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.  
☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC  
Temporary: ☐ Drilling ☐ Workover  
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no  
☐ Lined ☐ Unlined Liner type: Thickness \_\_\_\_\_ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_  
☐ String-Reinforced  
Liner Seams: ☐ Welded ☐ Factory ☐ Other \_\_\_\_\_ Volume: \_\_\_\_\_ bbl Dimensions: L \_\_\_\_\_ x W \_\_\_\_\_ x D \_\_\_\_\_

3.  
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC  
Volume: 100 bbl Type of fluid: Produced Water  
Tank Construction material: Fiberglass Tank  
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off  
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☒ Other single walled tank  
Liner type: Thickness \_\_\_\_\_ mil ☐ HDPE ☐ PVC ☐ Other \_\_\_\_\_

NMOCD

DEC 12 2018

DISTRICT III

4.  
☐ **Alternative Method:**  
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.  
**Fencing:** Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  
☐ Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)  
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet  
☒ Alternate. Please specify 4 foot tall hogwire fencing with pipe railing

30

6.  
**Netting:** Subsection E of 19.15.17.11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- ☐ Screen ☒ Netting ☐ Other \_\_\_\_\_  
☐ Monthly inspections (If netting or screening is not physically feasible)

7.  
**Signs:** Subsection C of 19.15.17.11 NMAC  
☒ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  
☒ Signed in compliance with 19.15.16.8 NMAC

8.  
**Variances and Exceptions:**  
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  
**Please check a box if one or more of the following is requested, if not leave blank:**  
☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.  
☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.  
**Siting Criteria (regarding permitting):** 19.15.17.10 NMAC  
**Instructions:** *The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.*

### General siting

#### Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.

- ☒ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells

☐ Yes ☒ No  
☐ NA

#### Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No  
☒ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (**Does not apply to below grade tanks**)

☐ Yes ☐ No

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

Within the area overlying a subsurface mine. (**Does not apply to below grade tanks**)

☐ Yes ☐ No

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

Within an unstable area. (**Does not apply to below grade tanks**)

☐ Yes ☐ No

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

Within a 100-year floodplain. (**Does not apply to below grade tanks**)

☐ Yes ☐ No

- FEMA map

### Below Grade Tanks

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

☐ Yes ☒ No

- Topographic map; Visual inspection (certification) of the proposed site

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;

☐ Yes ☒ No

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

### Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

☐ Yes ☐ No

- Topographic map; Visual inspection (certification) of the proposed site

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.

☐ Yes ☐ No

- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image

Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300 feet of any other fresh water well or spring, in existence at the time of the initial application.

☐ Yes ☐ No

NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site



adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

16.  
**On-Site Closure Plan Checklist:** (19.15.17.13 NMAC) *Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.*

<input type="checkbox"/> Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
<input type="checkbox"/> Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
<input type="checkbox"/> Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
<input type="checkbox"/> Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
<input type="checkbox"/> Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
<input type="checkbox"/> Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
<input type="checkbox"/> Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
<input type="checkbox"/> Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
<input type="checkbox"/> Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
<input type="checkbox"/> Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
<input type="checkbox"/> Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.  
**Operator Application Certification:**  
 I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): \_\_\_\_\_ Title: \_\_\_\_\_

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

e-mail address: \_\_\_\_\_ Telephone: \_\_\_\_\_

18.  
**OCD Approval:** ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: [Signature] Approval Date: 12/12/2018

Title: Environmental Specialist OCD Permit Number: \_\_\_\_\_

19.  
**Closure Report (required within 60 days of closure completion):** 19.15.17.13 NMAC  
*Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.*

☒ Closure Completion Date: November 5, 2018

20.  
**Closure Method:**  
☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)  
☐ If different from approved plan, please explain.

21.  
**Closure Report Attachment Checklist:** *Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.*

<input checked="" type="checkbox"/> Proof of Closure Notice (surface owner and division)
<input type="checkbox"/> Proof of Deed Notice (required for on-site closure for private land only)
<input type="checkbox"/> Plot Plan (for on-site closures and temporary pits)
<input checked="" type="checkbox"/> Confirmation Sampling Analytical Results (if applicable)
<input type="checkbox"/> Waste Material Sampling Analytical Results (required for on-site closure)
<input checked="" type="checkbox"/> Disposal Facility Name and Permit Number
<input checked="" type="checkbox"/> Soil Backfilling and Cover Installation
<input type="checkbox"/> Re-vegetation Application Rates and Seeding Technique
<input checked="" type="checkbox"/> Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD: ☐ 1927 ☐ 1983

22.

**Operator Closure Certification:**

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Amy Archuleta Title: Regulatory Specialist

Signature: \_\_\_\_\_ Date: November 9, 2018

e-mail address: aarchuleta@djrlc.com Telephone: 505-632-3476



**Scope of Closure Activities:**

The purpose of this closure plan is to provide the details of the activities involved in the closure of the BGT at the **Jake Johnson 1** well site. The following scope of closure activities has been designed to meet this objective:

- 1) DJR Operating, LLC, or a contractor acting on behalf of DJR Operating, will close all of the BGTs currently in service within the five (5) years allotted. DJR Operating, LLC does not operate any BGTs which would qualify to be upgraded or retrofitted; as such, they will be closing all their current BGT's and replacing them with above ground storage if necessary. **This closure was due by 01-19-2013. It was not done until 11-5-2018.**
- 2) DJR Operating, LLC will close BGT's deemed to be an imminent danger to fresh water, public health, or the environment by an earlier date that the division requires as specified in subsection A of 19.15.17.13 NMAC

**N/A**

- 3) DJR Operating will close any BGT which demonstrates a compromise of integrity before the five (5) years allotted by the division per Paragraph (6) of subsection I of 19.15.17.11 NMAC.

**N/A**

- 4) DJR Operating, LLC will close any BGT within 60 days of cessation of the BGTs operation per Subsection A of 19.15.17.13 NMAC.

**BGT was removed on 10-25-2018. Site closed on 11-05-2018.**

- 5) No less than 72 hours and no greater than on (1) week prior to BGT removal DJR Operating, LLC, or a contractor acting on behalf of DJR Operating, will provide written notification to the appropriate division district office as well as a schedule of on-site activities, as in accordance with 19.15.17.13 Subsection J Paragraph (2) NMAC. Written notification will include the name of the well operator, the well's API number, the wells name and number, and the well's unit letter, section, township and range.

**OCD was notified of the release and immediate excavation of this BGT on 9-6-2018.**

- 6) No less than 24 hours and no greater than one week prior to beginning BGT closure activities DJR Operating, LLC, or a contractor acting on behalf of DJR Operating, will provide written notification to the appropriate surface owner, as in accordance with 19.15.17.13 Subsection J Paragraph (1) NMAC. DJR Operating, or a contractor acting on behalf of DJR

Operating, will notify the surface owner by certified mail, return receipt requested, that the operator plans to close a BGT. The return receipt will be used to ensure that the surface owner has received written notification no less than 25 hrs. and no greater than one week prior to the beginning of BGT closure activities. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance with this requirement. Closure activities that will take place on tribal land will have notification sent by certified mail, return receipt requested, to the appropriate tribal office. DJR Operating, or a contractor acting on behalf of DJR Operating, will notify the BLM of closure activities for wells located on federal land per a Sundry Notice, as in accordance with 19.15.17.13 Subsection J Paragraph (1) NMAC. All notices will be sent in such a way that the surface owner received notice at least 24 hours prior to the beginning of the closure activities.

**Notification for the Jack Johnson was sent to Brandon Foley on 9-6-2018.**

- 7) DJR Operating, LLC, or a contractor acting on behalf of DJR Operating, will remove all liquids, and/or sludge, if applicable, prior to closure. Material will be disposed of at Industrial Ecosystems, Inc. (IEI) Landfarm, Permit #NM-01-0010B or Basin Disposal, Permit # NM-01-0005, depending on the consistence of the material removed, as in accordance with 19.15.17.13 Subsection E Paragraph (1) NMAC.

**Contaminated soil was taken to Industrial Ecosystems, Inc. C-138s are attached.**

- 8) DJR Operating, LLC, or a contractor acting on behalf of DJR Operating, will remove all on site equipment associated with this BGT that is no longer required for some other purpose, as in accordance with 19.15.17.13 Subsection E Paragraphs (3) NMAC.

**All equipment related to BGT was removed.**

- 9) If applicable, any liners or leak detection system removed from a BGT closure will be cleaned off and disposed of at San Juan County Regional Landfill in accordance with Subparagraph (m) of Paragraph (1) of subsection D of 19.15.9.712 NMAC

**There was a pit liner present, but was ripped when excavation to expose the base started.**

- 10) DJR Operating, LLC, or a contractor acting on behalf of DJR Operating, will obtain prior approval from the OCD to dispose, recycle, reuse, or reclaim the BGT. DJR Operating, LLC, or a contractor acting on behalf of DJR Operating, will provide the OCD with documentation concerning the final disposition of the BGT with the closure report.

**The BGT steam cleaned, cut up and taken to the landfill by Caulder Services.**



- 11) Once the BGT is removed, a five (5)-point composite sample will be collected from directly below the tank or below the leak detection system if present. Grab samples will be collected from any areas that are wet, discolored, or showing other evidence of release. All samples being collected will be analyzed for benzene and total BTEX via USEAP Method 8021B, TPH via USEPA method 8015B, and chlorides, via USEPA 300.1, as in accordance with 19.15.17.13 Subsection E Paragraph (4) NMAC.
- 12) Depending on soil sample results, the area will be either backfilled or the area will be excavated.
- a. If soil samples do not exceed the regulatory standards of .02 mg/kg benzene, 50 mg/kg BTEX, 100 mg/kg TPH, and 250 mg/kg or background concentration of chlorides, as in accordance with 19.15.17.13 Subsection E Paragraph (4) NMAC.
    - i. DJR Operating, or a contractor acting on behalf of DJR Operating, shall submit a Form C-141 with the laboratory results so that the division may review the results to determine if additional delineation is required in accordance with Paragraph (5) of subsection E of 19.15.17.13 NMAC.  
**Attached C-141 w/ results.**
    - ii. DJR Operating, LLC, or a contractor acting on behalf of DJR Operating, will backfill the excavation or impacted area with nonwasted containing, earthen material, in accordance with 19.15.17.13 Subsection E Paragraph (6) NMAC. A soil cover shall be installed for all backfilled excavation consisting of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater in accordance with Subsection H of 19.15.17.13 NMAC. The operator shall construct soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material. **Soil was purchased from Envirotech's Land farm on 11-5-2018 approximately 80 yrds were used.**
    - iii. All areas of the well site that are no longer utilized on a day to day basis for the production of oil and/or gas, DJR Operating, or a contractor acting on behalf of DJR Operating, will substantially restore, recontour, and revegetate the areas, in accordance with 19.15.17.13 Subsections G and I NMAC. The



operator shall notify the division when it has been re-seeded and when it has achieved successful re-vegetation. For re-vegetation methods, please see attached re-vegetation plan. **This area is still in use and will be re-vegetated at Plug and Abandonment.**

- b. If soil samples exceed the regulatory standards stated above.
  - i. DJR Operating will submit a Release Notification by Form C-141 with the appropriate analytical laboratory results to the appropriate division district office, in accordance with 19.15.17.13 Subsection E Paragraph (4) NMAC.
  - ii. In accordance with Paragraph (5) of Subsection E of 19.15.17.13 NMAC, once the operator or the OCD has determined that the release has occurred, DJR Operating, LLC, or a contractor acting on behalf of DJR Operating, will comply with rule 19.15.3.116 NMAC and 19.15.1.19 NMAC as appropriate.

**N/A**

### **Reporting**

DJR Operating, LLC will submit a closure report within 60 days following the BGT closure. The closure report will consist of a form C-144 with all supporting data☒ and a form C-141 with all supporting data☒. The supporting data will include proof of closure notice to the surface owner and the OCD ☒, confirmation of sampling analytical results☒, a site diagram☒, soil backfilling and cover installation☒, revegetation rates☐, re-seeding techniques☐, and a site reclamation photo documentation☒, if applicable, along with all other information related to onsite activities☐.

**Amy Archuleta**  
**Regulatory Supervisor**  
**DJR Operating, LLC**

## Amy Archuleta

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**From:** Amy Archuleta  
**Sent:** Thursday, September 6, 2018 2:05 PM  
**To:** 'Smith, Cory, EMNRD'; Fields, Vanessa, EMNRD; Foley, Brandon M.  
**Subject:** BGT - Jake Johnson 1 30-045-27167 Sec32-T25N-R11W

All:

On September 5<sup>th</sup>, 2018 while removing the soil around the BGT, to make the base visible, a release was discovered. The amount of this historic release is unknown. We have a crew out there currently excavating the contaminated area. I will submit the C-141 initial notification by September 19th, 2018 (15 day requirement).

This below grade tank (BGT) was removed without notice to the surface owner due to the release.

This will serve as official notice to close the BGT per the approved closure noticed scanned to OCD on 5/22/2018.

If you have questions or concerns, please contact me.

Thank you,



Amy Archuleta  
Regulatory  
Phone: (505) 632-3476 x201  
Fax: (505) 632-8151  
[aarchuleta@djrlc.com](mailto:aarchuleta@djrlc.com)

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State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

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

### Location of Release Source

Latitude 36.35494 Longitude -108.03280  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Jake Johnson #001	Site Type	Oil
Date Release Discovered	September 5, 2018	API# (if applicable)	30-045-27167

Unit Letter	Section	Township	Range	County
L	32	25N	11W	San Juan

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

### Nature and Volume of Release

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

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

#### Cause of Release

While cleaning out the soil around the below grade waste tank to provide visibility to the base, contaminated soil was observed. The cause of the release appears to be loss of integrity by corrosion.



Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Amy Archuleta Title: Regulatory Specialist  
Signature: \_\_\_\_\_ Date: 11/9/18  
email: aarchuleta@djrlc.com Telephone: 505-632-3476

**OCD Only**

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

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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

November 5, 2018

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: Below Grade Tank Release Final Excavation Report  
Jake Johnson #1  
API #3004527167  
San Juan County, New Mexico**

Dear Ms. Archuleta:

On October 23, 2018, Animas Environmental Services, LLC (AES) completed an environmental clearance of the final excavation limits at the DJR Operating (DJR) Jake Johnson #1 located in San Juan County, New Mexico. While cleaning out the soil around the below grade tank (BGT) to provide visibility to the base of BGT, contaminated soil was observed. The cause of the release appears to be loss of integrity by corrosion. The final excavation was completed by DJR contractors prior to AES' arrival on location.

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## 1.0 Site Information

### 1.1 Location

Site Name – Jake Johnson #1

API# – 3004527167

Legal Description – NW¼ SW¼, Section 32, T25N, R11W, San Juan County, New Mexico

Well Latitude/Longitude – N36.35498 and W108.03281, respectively

Release Latitude/Longitude – N36.35539 and W108.03281, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, October 2018

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

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

## 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 approximately 28 feet higher than Willow Wash, which is 800 feet to the northwest. Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be greater than 100 feet below ground surface (bgs).
- **Sensitive Receptor Determination:** The site does not occur within any of the areas listed within NMAC 19.15.29.12C.4, where releases must be treated as if they occur less than 50 feet bgs to groundwater.

### **Action levels are:**

- 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene, and xylene (BTEX);
- 1,000 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO);
- 2,500 mg/kg TPH as GRO/DRO and motor oil range organics (MRO); and
- 20,000 mg/kg chloride.

## 1.3 Assessment

AES was initially contacted by Amy Archuleta of DJR on October 22, 2018, and on October 23, 2018, Corwin Lameman of AES completed the excavation field work. The field sampling activities included collection of three composite soil samples (SC-1 through SC-3) from the walls and base of the excavation. The area of the final excavation measured approximately 19 feet by 25 feet by 5 to 7 feet in depth. Sample locations and final excavation extents are presented on Figure 2.

---

## 2.0 Soil Sampling

### 2.1 Laboratory Analyses

The soil 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. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All soil samples were laboratory analyzed for:

- BTEX per USEPA Method 8021B;



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

## 2.2 Laboratory Analytical Results

Laboratory analytical results are summarized in Table 1 and on Figure 2. The laboratory analytical report is attached.

Table 1. Soil Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chloride  
Jake Johnson #1 Final Excavation  
October 2018

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)	Chloride (mg/kg)
NMOCD Action Level*			10	50	1,000/2,500*			20,000
NE Wall	10/23/18	6	<0.023	<0.211	<4.7	<9.9	<50	330
SW Wall	10/23/18	6	<0.023	<0.210	<4.7	700	540	210
Base	10/23/18	5 to 7	<0.025	<0.225	<5.0	<10	<50	620

\*Action level determined by NMAC 19.15.29.12 Table I (August 2018). TPH (GRO/DRO) action level is 1,000 mg/kg and TPH (GRO/DRO/MRO) action level is 2,500 mg/kg.

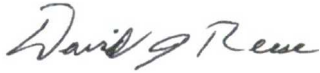
## 3.0 Conclusions and Recommendations

On October 23, 2018, final clearance of the BGT release excavation area was completed. Action levels for releases are based on the minimum depth to groundwater within the horizontal extent of the release area, and the assigned depth to groundwater was greater than 100 feet. Laboratory analytical results reported concentrations in all samples as below applicable action levels for benzene, total BTEX, TPH (as GRO/DRO and GRO/DRO/MRO), and chloride.

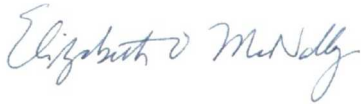
The excavation was backfilled with approximately 80 cubic yards of clean soil on November 5, 2018; photographs of the completed excavation are provided in the attached photo log. Based on the final laboratory analytical results of the excavation no further work is recommended.

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

Sincerely,



David J. Reese  
Environmental Scientist

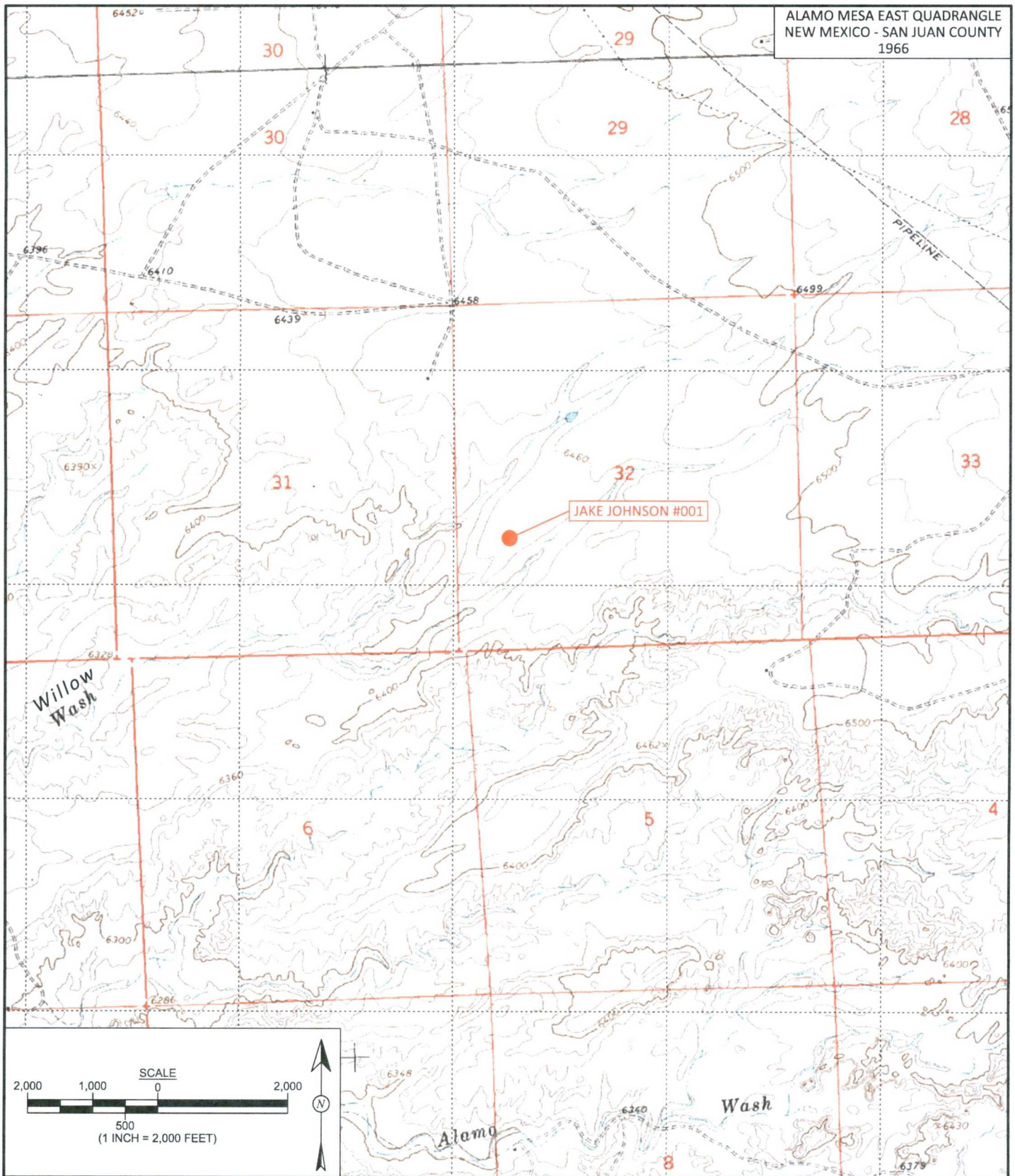


Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Final Excavation Sample Locations and Results, October 2018
- Hall Laboratory Analytical Report 1810C31
- Photo Log

R:\Animas 2000\Dropbox (Animas Environmental)\0000 AES Server Client Projects Dropbox\2018 Client Projects\DJ Resources\Jake Johnson 1 BGT Closure\Jake Johnson #1 Final Excavation Report 110518 DR TK EM TK.docx



ALAMO MESA EAST QUADRANGLE  
NEW MEXICO - SAN JUAN COUNTY  
1966

JAKE JOHNSON #001

Willow  
Wash

Wash

Alamo

SCALE  
2,000 1,000 0 2,000  
500  
(1 INCH = 2,000 FEET)



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environmental  
services

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animasenvironmental.com

**DRAWN BY:**  
C. Lameman

**DATE DRAWN:**  
October 29, 2018

**REVISIONS BY:**  
C. Lameman

**DATE REVISED:**  
November 6, 2018

**CHECKED BY:**  
T. Knight

**DATE CHECKED:**  
November 6, 2018

**APPROVED BY:**  
E. McNally

**DATE APPROVED:**  
November 6, 2018

## FIGURE 1

### TOPOGRAPHIC SITE LOCATION MAP

DJR OPERATING  
JAKE JOHNSON #001  
API: 30-045-27167  
NW¼ SW¼, SECTION 32, T25N, R11W  
SAN JUAN COUNTY, NEW MEXICO  
N36.35498, W108.03281



Laboratory Analytical Results								
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			10	50	1,000		--	20,000
						2,500		
NE WALL	10/23/18	6	<0.023	<0.211	<4.7	<9.9	<50	330
SW WALL	10/23/18	6	<0.023	<0.210	<4.7	700	540	210
BASE	10/23/18	5 to 7	<0.025	<0.225	<5.0	<10	<50	620

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

LEGEND	
	SAMPLE LOCATIONS
	SECONDARY CONTAINMENT
	BERM
	FENCE



**FIGURE 2**

**AERIAL SITE LOCATION MAP  
BELOW GRADE TANK RELEASE  
SOIL CONFIRMATION, OCTOBER 2018**

DJR OPERATING - JAKE JOHNSON #001

API: 30-045-27167

NW¼ SW¼, SECTION 32, T25N, R11W  
SAN JUAN COUNTY, NEW MEXICO

N36.35498, W108.03281



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environmental  
services**

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animasenvironmental.com

**DRAWN BY:**

C. Lameman

**DATE DRAWN:**

October 29, 2018

**REVISIONS BY:**

C. Lameman

**DATE REVISED:**

November 6, 2018

**CHECKED BY:**

T. Knight

**DATE CHECKED:**

November 6, 2018

**APPROVED BY:**

E. McNally

**DATE APPROVED:**

November 6, 2018





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 30, 2018

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

RE: DJR Jake Johnson 1

OrderNo.: 1810C31

Dear Tami Knight:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/24/2018 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", with a stylized flourish at the end.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1810C31

Date Reported: 10/30/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: NE Wall

Project: DJR Jake Johnson I

Collection Date: 10/23/2018 10:59:00 AM

Lab ID: 1810C31-001

Matrix: SOIL

Received Date: 10/24/2018 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	330	30		mg/Kg	20	10/25/2018 5:59:52 PM	41192
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/29/2018 5:57:57 PM	41216
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/29/2018 5:57:57 PM	41216
Surr: DNOP	96.1	50.6-138		%Rec	1	10/29/2018 5:57:57 PM	41216
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/26/2018 11:54:32 AM	41173
Surr: BFB	91.1	15-316		%Rec	1	10/26/2018 11:54:32 AM	41173
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	10/26/2018 11:54:32 AM	41173
Toluene	ND	0.047		mg/Kg	1	10/26/2018 11:54:32 AM	41173
Ethylbenzene	ND	0.047		mg/Kg	1	10/26/2018 11:54:32 AM	41173
Xylenes, Total	ND	0.094		mg/Kg	1	10/26/2018 11:54:32 AM	41173
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	10/26/2018 11:54:32 AM	41173

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.

## Analytical Report

Lab Order 1810C31

Date Reported: 10/30/2018

CLIENT: Animas Environmental Services

Client Sample ID: SW Wall

Project: DJR Jake Johnson 1

Collection Date: 10/23/2018 11:04:00 AM

Lab ID: 1810C31-002

Matrix: SOIL

Received Date: 10/24/2018 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	210	30		mg/Kg	20	10/25/2018 6:12:17 PM	41192
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	700	9.9		mg/Kg	1	10/29/2018 9:39:38 PM	41216
Motor Oil Range Organics (MRO)	540	50		mg/Kg	1	10/29/2018 9:39:38 PM	41216
Surr: DNOP	112	50.6-138		%Rec	1	10/29/2018 9:39:38 PM	41216
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/25/2018 1:16:33 PM	41173
Surr: BFB	86.7	15-316		%Rec	1	10/25/2018 1:16:33 PM	41173
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	10/25/2018 1:16:33 PM	41173
Toluene	ND	0.047		mg/Kg	1	10/25/2018 1:16:33 PM	41173
Ethylbenzene	ND	0.047		mg/Kg	1	10/25/2018 1:16:33 PM	41173
Xylenes, Total	ND	0.093		mg/Kg	1	10/25/2018 1:16:33 PM	41173
Surr: 4-Bromofluorobenzene	88.9	80-120		%Rec	1	10/25/2018 1:16:33 PM	41173

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 1810C31

Date Reported: 10/30/2018

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: Base

Project: DJR Jake Johnson 1

Collection Date: 10/23/2018 11:09:00 AM

Lab ID: 1810C31-003

Matrix: SOIL

Received Date: 10/24/2018 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	620	30		mg/Kg	20	10/25/2018 6:24:41 PM	41192
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/29/2018 7:04:14 PM	41216
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/29/2018 7:04:14 PM	41216
Surr: DNOP	95.4	50.6-138		%Rec	1	10/29/2018 7:04:14 PM	41216
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/25/2018 2:03:20 PM	41173
Surr: BFB	89.4	15-316		%Rec	1	10/25/2018 2:03:20 PM	41173
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	10/25/2018 2:03:20 PM	41173
Toluene	ND	0.050		mg/Kg	1	10/25/2018 2:03:20 PM	41173
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2018 2:03:20 PM	41173
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2018 2:03:20 PM	41173
Surr: 4-Bromofluorobenzene	92.3	80-120		%Rec	1	10/25/2018 2:03:20 PM	41173

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#: 1810C31

30-Oct-18

Client: Animas Environmental Services

Project: DJR Jake Johnson 1

Sample ID	<b>MB-41192</b>		SampType:	<b>mblk</b>		TestCode:	<b>EPA Method 300.0: Anions</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>41192</b>		RunNo:	<b>55181</b>			
Prep Date:	<b>10/25/2018</b>		Analysis Date:	<b>10/25/2018</b>		SeqNo:	<b>1835006</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-41192</b>		SampType:	<b>lcs</b>		TestCode:	<b>EPA Method 300.0: Anions</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>41192</b>		RunNo:	<b>55181</b>			
Prep Date:	<b>10/25/2018</b>		Analysis Date:	<b>10/25/2018</b>		SeqNo:	<b>1835007</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical 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#: 1810C31

30-Oct-18

Client: Animas Environmental Services

Project: DJR Jake Johnson 1

Sample ID	MB-41231		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 41231		RunNo: 55232					
Prep Date:	10/29/2018		Analysis Date: 10/29/2018		SeqNo: 1836679		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		115	50.6	138			

Sample ID	LCS-41231		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 41231		RunNo: 55232					
Prep Date:	10/29/2018		Analysis Date: 10/29/2018		SeqNo: 1836680		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		102	50.6	138			

Sample ID	LCS-41216		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 41216		RunNo: 55232					
Prep Date:	10/26/2018		Analysis Date: 10/29/2018		SeqNo: 1837270		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.9	70	130			
Surr: DNOP	4.7		5.000		93.5	50.6	138			

Sample ID	MB-41216	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	41216		RunNo:	55232				
Prep Date:	10/26/2018	Analysis Date:	10/29/2018		SeqNo:	1837271		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	11		10.00		111	50.6	138			

Sample ID	1810C31-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	NE Wall		Batch ID: 41216		RunNo: 55247					
Prep Date:	10/26/2018		Analysis Date: 10/29/2018		SeqNo: 1837794		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.8	49.21	0	91.5	53.5	126			
Surr: DNOP	4.9		4.921		101	50.6	138			

Sample ID	1810C31-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	NE Wall		Batch ID:	41216		RunNo:	55247				
Prep Date:	10/26/2018		Analysis Date:	10/29/2018		SeqNo:	1837795		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	9.8	49.07	0	93.7	53.5	126	2.11	21.7		

### 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#: 1810C31

30-Oct-18

Client: Animas Environmental Services

Project: DJR Jake Johnson 1

Sample ID	1810C31-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	NE Wall	Batch ID:	41216	RunNo:	55247					
Prep Date:	10/26/2018	Analysis Date:	10/29/2018	SeqNo:	1837795	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		4.907		92.3	50.6	138	0	0	

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| PQL Practical 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#: 1810C31

30-Oct-18

Client: Animas Environmental Services

Project: DJR Jake Johnson 1

Sample ID	MB-41173		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	41173		RunNo:	55171				
Prep Date:	10/24/2018		Analysis Date:	10/25/2018		SeqNo:	1834199		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	900		1000		90.4	15	316				

Sample ID	LCS-41173		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 41173		RunNo: 55171					
Prep Date:	10/24/2018		Analysis Date: 10/25/2018		SeqNo: 1834200		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	75.9	131			
Surr: BFB	1000		1000		104	15	316			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical 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#: 1810C31

30-Oct-18

Client: Animas Environmental Services

Project: DJR Jake Johnson 1

Sample ID	<b>MB-41173</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>41173</b>		RunNo:	<b>55171</b>			
Prep Date:	<b>10/24/2018</b>		Analysis Date:	<b>10/25/2018</b>		SeqNo:	<b>1834206</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	0.93		1.000		93.1	80	120			

Sample ID	<b>LCS-41173</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>41173</b>		RunNo:	<b>55171</b>			
Prep Date:	<b>10/24/2018</b>		Analysis Date:	<b>10/25/2018</b>		SeqNo:	<b>1834207</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	77.3	128			
Toluene	0.95	0.050	1.000	0	95.0	79.2	125			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	96.3	81.6	129			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.2	80	120			

Sample ID	<b>1810C31-001AMS</b>		SampType:	<b>MS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>NE Wall</b>		Batch ID:	<b>41173</b>		RunNo:	<b>55171</b>			
Prep Date:	<b>10/24/2018</b>		Analysis Date:	<b>10/25/2018</b>		SeqNo:	<b>1834208</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.87	0.096	0.9597	0	90.4	56.9	130			
Benzene	0.94	0.024	0.9597	0	98.1	68.5	133			
Toluene	1.0	0.048	0.9597	0	104	75	130			
Ethylbenzene	1.0	0.048	0.9597	0	107	79.4	128			
Xylenes, Total	3.1	0.096	2.879	0	107	77.3	131			
Surr: 4-Bromofluorobenzene	0.90		0.9597		94.2	80	120			

Sample ID	<b>1810C31-001AMSD</b>		SampType:	<b>MSD</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>NE Wall</b>		Batch ID:	<b>41173</b>		RunNo:	<b>55171</b>			
Prep Date:	<b>10/24/2018</b>		Analysis Date:	<b>10/25/2018</b>		SeqNo:	<b>1834209</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9862	0	97.7	68.5	133	2.35	20	
Toluene	1.0	0.049	0.9862	0	105	75	130	3.19	20	
Ethylbenzene	1.0	0.049	0.9862	0	106	79.4	128	1.92	20	
Xylenes, Total	3.2	0.099	2.959	0	109	77.3	131	4.34	20	
Surr: 4-Bromofluorobenzene	0.95		0.9862		96.6	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 |

# Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1810C31

RcptNo: 1

Received By: Anne Thorne 10/24/2018 7:30:00 AM

Completed By: Anne Thorne 10/24/2018 8:16:25 AM

Reviewed By: JAB 10/24/18

Labeled by: ZO

10/24/18

*Anne Thorne*

*Anne Thorne*

## Chain of Custody

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

## Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐  
 (Note discrepancies on chain of custody)
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? Yes ☒ No ☐  
 (If no, notify customer for authorization.)

# of preserved bottles checked for pH  
 10/24/18  
 (<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: \_\_\_\_\_

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

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks

## Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

<b>Chain-of-Custody Record</b>		Turn-Around Time:
Client: Animas Environmental Services		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Mailing Address: 604 W Pinon St. Farmington, NM 87401		Project Name: <b>DJR <del>CSU</del> Jake Johnson #1</b>
Phone #: 505-564-2281		Project #:
Email or Fax#: <a href="mailto:tknight@animasenvironmental.com">tknight@animasenvironmental.com</a>		Project Manager: T. Knight
QA/QC Package: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		
Accreditation: <input type="checkbox"/> NELAP <input type="checkbox"/> Other _____		Sampler: CL
<input type="checkbox"/> EDD (Type) _____		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Sample Temperature: 7.4

☒ Standard      ☐ Rush

DJR ~~CS~~ Jake Johnson #1

Project #:

Project Manager:





T. Knight

Sampler: CL

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

[illegible]

Date: 10/23/18	Time: 1723	Relinquished by: 	Received by: 	Date 10/23/18	Time 1723
Date: 10/23/18	Time: 1811	Relinquished by: 	Received by: 	Date 10/24/18	Time 0730

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

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



**Jake Johnson #1**  
**API #3004527167**  
**Below Grade Tank October 2018 Release**



Photo 1: Sign posted on the site.



Photo 2: BGT excavation extents.

**Jake Johnson #1**  
**API #3004527167**  
**Below Grade Tank October 2018 Release**



Photo 3: The BGT sample locations.



Photo 4: Reclamation completion.