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

RCVD 7/23/19

Responsible Party

Responsible Party Agua Moss, LLC	OGRID 247130
Contact Name Philana Thompson	Contact Telephone 505-486-1171
Contact email pthompson@merrion.bz	Incident # *(assigned by OCD)* ***NVF1903133324***
Contact mailing address PO Box 600 Farmington, NM 87499	

Location of Release Source

Latitude 36.7660522 Longitude -107.9743271
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Pretty Lady 30-11-34 #1	Site Type SWD
Date Release Discovered 12/31/2018	API# *(if applicable)* 30-045-30922

Unit Letter	Section	Township	Range	County
J	34	30N	11W	San Juan

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name: Agua Moss, LLC*)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 20 BBLS	Volume Recovered (bbls) 20 BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

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 Philana Thompson	OGRID 247130
Contact Name Philana Thompson	Contact Telephone 505-486-1171
Contact email pthompson@merrion.bz	Incident # *(assigned by OCD)* NVF1903133324
Contact mailing address 610 Reilly Ave, Farmington, NM 87401	

Location of Release Source

Latitude 36.7660522 Longitude -107.9743271
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Pretty Lady 30-11-34 #1	Site Type SWD
Date Release Discovered 12/31/2018	API# *(if applicable)* 30-045-30922

Unit Letter	Section	Township	Range	County
J	34	30N	11W	San Juan

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name: Agua Moss, LLC*)

NMOCD
JAN 28 2019
DISTRICT III

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 20 bbls	Volume Recovered (bbls) 20 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

14

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Cause of Release
On December 30,2018 at 6:18 Pm at the Pretty Lady SWD # 1 I received a phone call from Isaac Ortiz. He told me that we had a spill and that I needed to come back to the shop. I found that tanks 1, 2, 11 and 22 had over flowed. When I had left the earlier in the evening everything was running smoothly and working how it should. We had closed in tank 21 which has a transducer on it which tells our computer system whether or not to pump to the surge because the new and old tank battery is full or to pump to the primary because it needs water. When you close in tank 21 when it is red lighting (pumping to the surge) it will hold that level and keep pumping to the surge. We closed in tank 21 because we didn't get much water that day and we needed to store water in our surge to hold water for the night shift guy so that he can pump on one pump all night. If we don't do this our high pressure line and our drain lines for our primary tank battery will freeze. I soon found out that our air actuated valve had ended up getting stuck half open. This valve controls the water either going to the new and old tank battery or to the surge. So when we made the system stay in red light it was pumping to both the new and old tank battery and the surge. Therefor tanks 1,2,11 and tank 22 over flowed with some oil and mostly water (20 bbl.). We had a hydro vac crew come out and start cleaning up the mess on December 31, 2018, they will be done cleaning up the spill on January 3, 2019. We have since ordered and new actuator valve. We are also not making the system red light to the surge.

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ☒ No	

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Although not a major release Jeff Davis with Agua Moss, LLC contacted Vanessa with the NMOCD to advise of the spill. She advised that a C141 would need to be filled out and Rule 19.15.29 Releases would need to be followed.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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: _Philana Thompson_____ Title: _Regulatory Compliance Specialist____

Signature: _____ Date: __1/8/2019_____

email: ___pthompson@merrion.bz____ Telephone: ____505-486-1171___

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<34 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☒ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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: Philana Thompson Title: Regulatory Compliance Specialist

Signature: Date: 7/23/2019

email: pthompson@merrion.bz Telephone: 505-486-1171

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ 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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☒ Description of remediation activities

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

Printed Name: Philana Thompson Title: Regulatory Compliance Specialist

Signature: Date: 7/23/2019

email: pthompson@merrion.bz Telephone: 505-486-1171

OCD Only

Received by: OCD Date: 7/23/19

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.

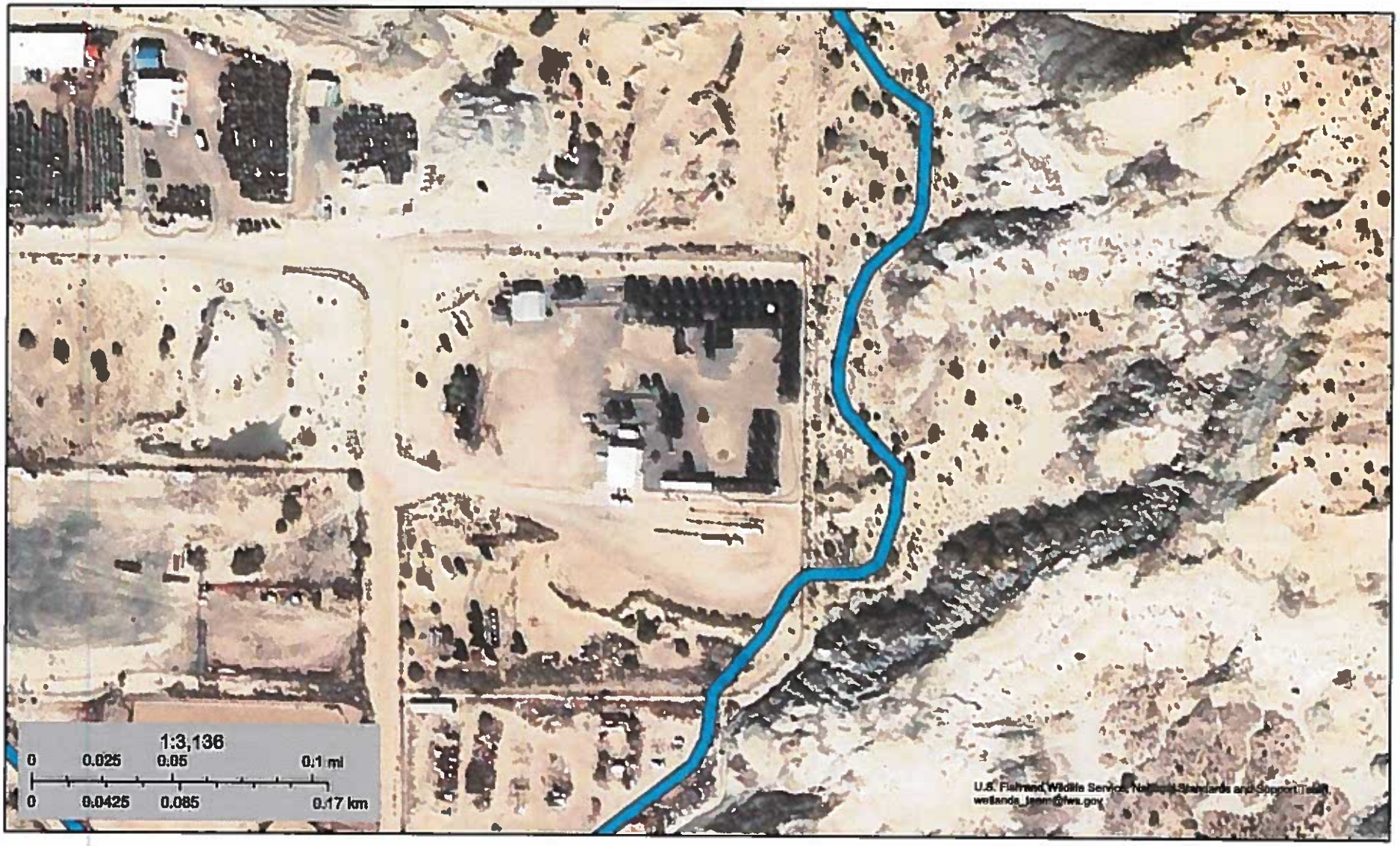
Closure Approved by: Date: 8/5/19

Printed Name: Cory Title: Environmental Specalist

U.S. Fish and Wildlife Service

National Wetlands Inventory

Pretty Lady 30-11-34 #1 30-045-30922



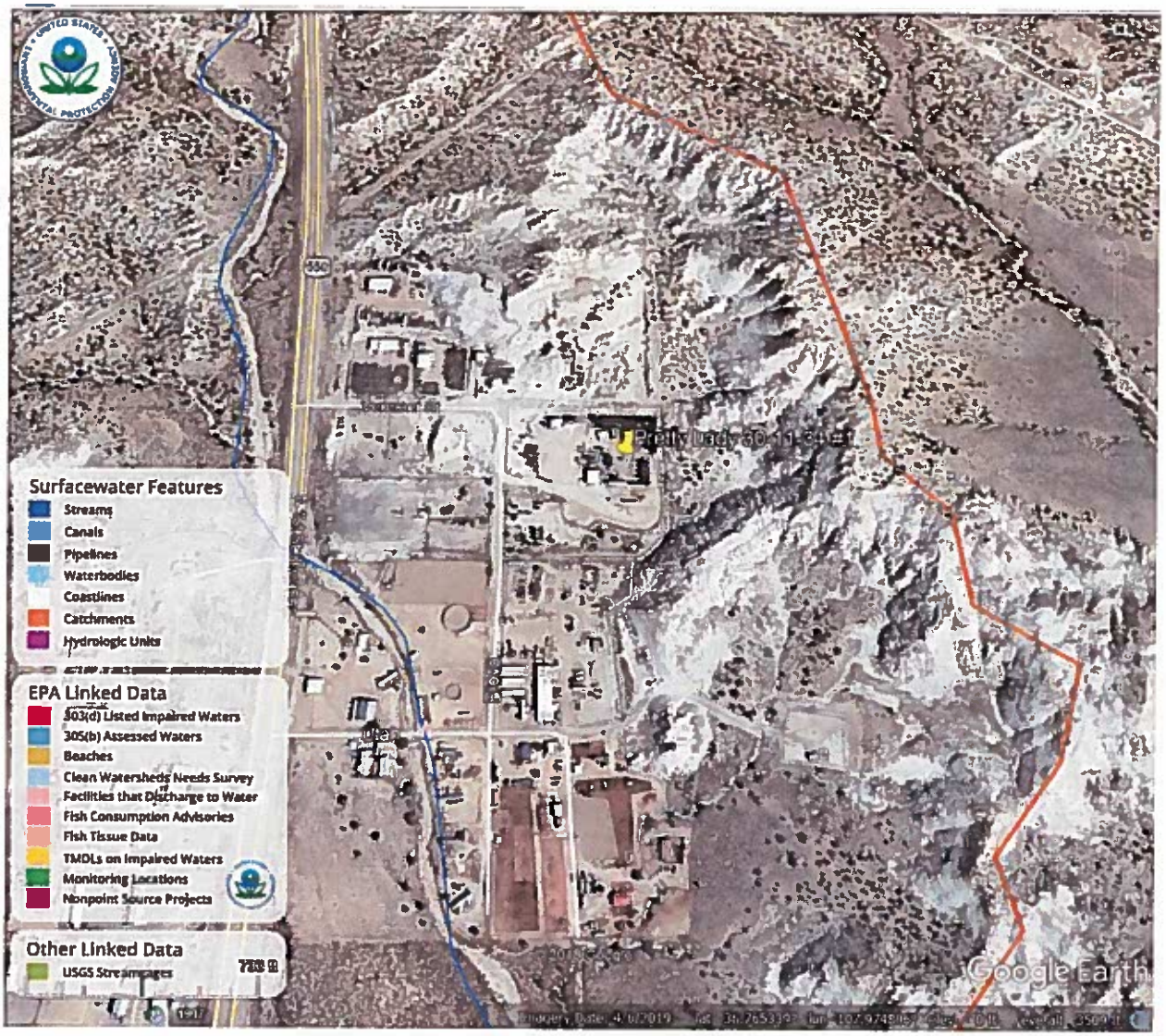
July 23, 2019

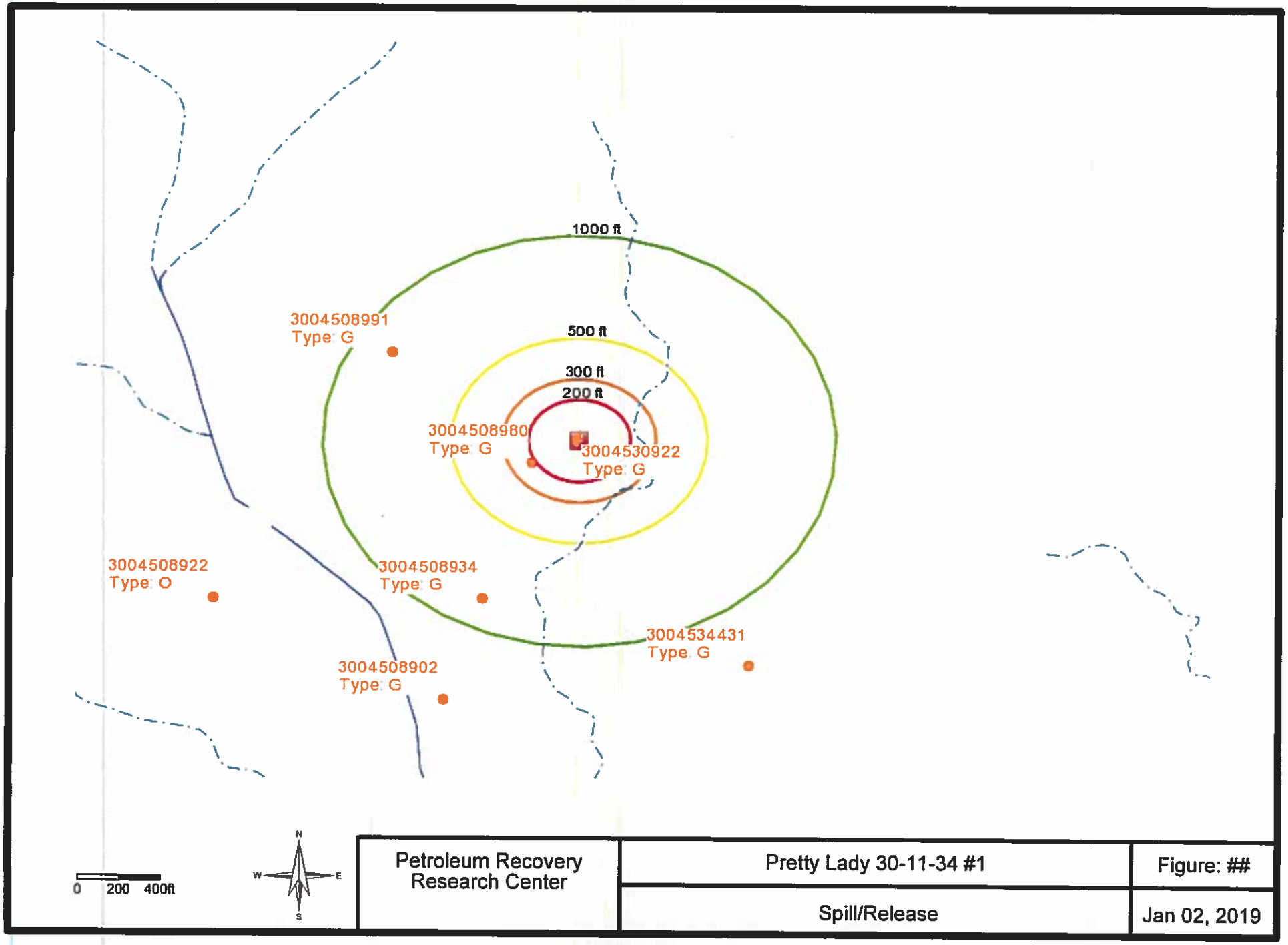
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper


Surfacewater Features
Streams
Canals
Pipelines
Waterbodies
Coastlines
Catchments
Hydrologic Units
EPA Linked Data
303(d) Listed Impaired Waters
305(b) Assessed Waters
Beaches
Clean Watersheds Needs Survey
Facilities that Discharge to Water
Fish Consumption Advisories
Fish Tissue Data
TMDLs on Impaired Waters
Monitoring Locations
Nonpoint Source Projects
Other Linked Data
USGS Streamgages
Google Earth


1000 ft
500 ft
300 ft
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Type: G
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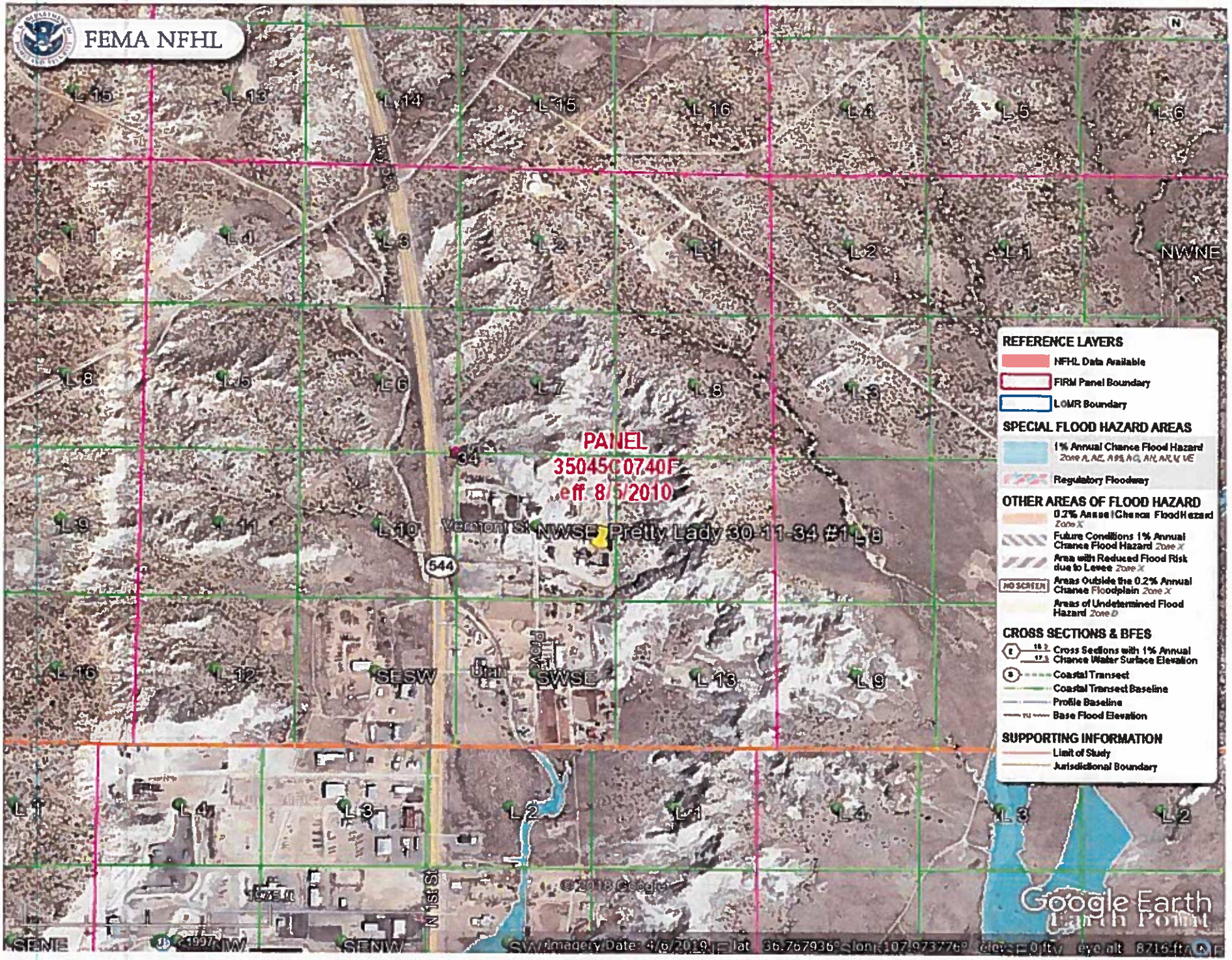
Petroleum Recovery Research Center
Pretty Lady 30-11-34 #1
Spill/Release
Figure: ##
Jan 02, 2019


FEMA NFHL
PANEL
35045C0740F
eff. 8/5/2010
NWSE: Pretty Lady 30-11-34 #1
Vernon St
544
N 1st St
SESW
SWSE
SENE
SENW
NWNE
REFERENCE LAYERS
NFHL Data Available
FIRM Panel Boundary
LOMR Boundary
SPECIAL FLOOD HAZARD AREAS
1% Annual Chance Flood Hazard
Zone A, AE, A99, AO, AH, AR, V, VE
Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD
0.2% Annual Chance Flood Hazard
Zone X
Future Conditions 1% Annual Chance Flood Hazard Zone X
Area with Reduced Flood Risk due to Levee Zone X
NO SCREEN
Areas Outside the 0.2% Annual Chance Floodplain Zone X
Areas of Undetermined Flood Hazard Zone D
CROSS SECTIONS & BFES
Cross Sections with 1% Annual Chance Water Surface Elevation
Coastal Transect
Coastal Transect Baseline
Profile Baseline
Base Flood Elevation
SUPPORTING INFORMATION
Limit of Study
Jurisdictional Boundary
© 2018 Google
Google Earth
Earth Point
Imagery Date: 4/9/2019
lat 36.767936°
eye alt 8716 ft

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 03841 POD10		SJ	SJ			3	34	30N	11W	261236	4075354	42	30	12

Average Depth to Water: **30 feet**

Minimum Depth: **30 feet**

Maximum Depth: **30 feet**

Record Count: 1

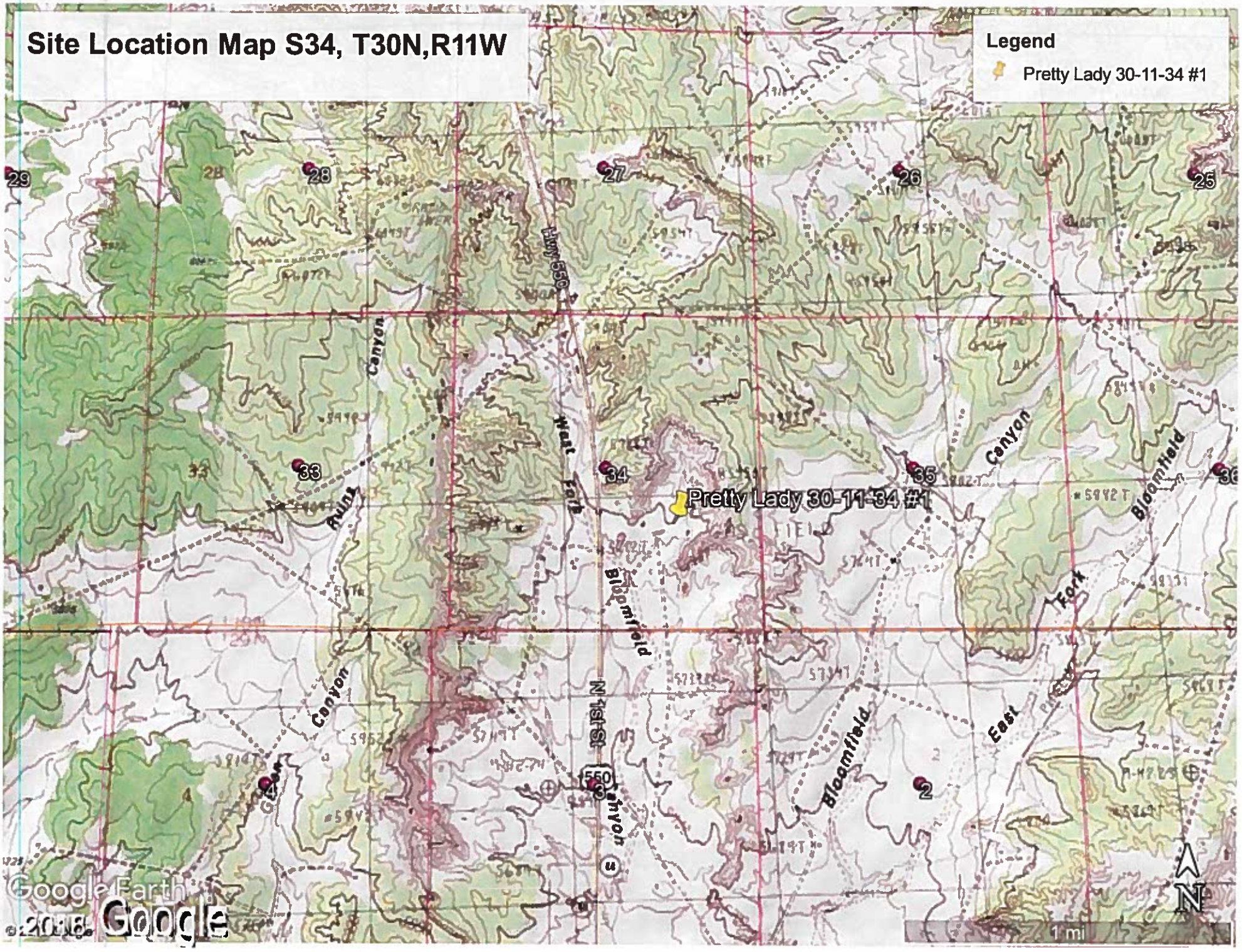
Basin/County Search:

Basin: San Juan **County:** San Juan

PLSS Search:

Section(s): 34 **Township:** 30N **Range:** 11W

Site Location Map S34, T30N,R11W




Site Location Map S34, T30N,R11W
Legend
Extent of Spill
Pretty Lady 30-11-34 #1
Pretty Lady 30-11-34 #1
Google Earth
© 2018 Google
100 ft
N

Clean up & Excavation Activity

12/31/2018

Hydro vac crew began cleaning up the spill and completed operation on January 3rd, 2019.

1/14/2019

Began excavation activities

3/13/19

Requested an extension to sample soil due to weather related issues.

3/27/19

First Sampling event

4/3/2019

Excavated sections 8-15 based on sampling

4/11/2019

Second Sampling event

4/16/19

Excavated section 15 based on sampling

5/6/2019

Brought in clean fill and began backfilling all excavated areas

Total loads of contaminated soil removed:

JFJ/IEI Permit #NM 01-0010B

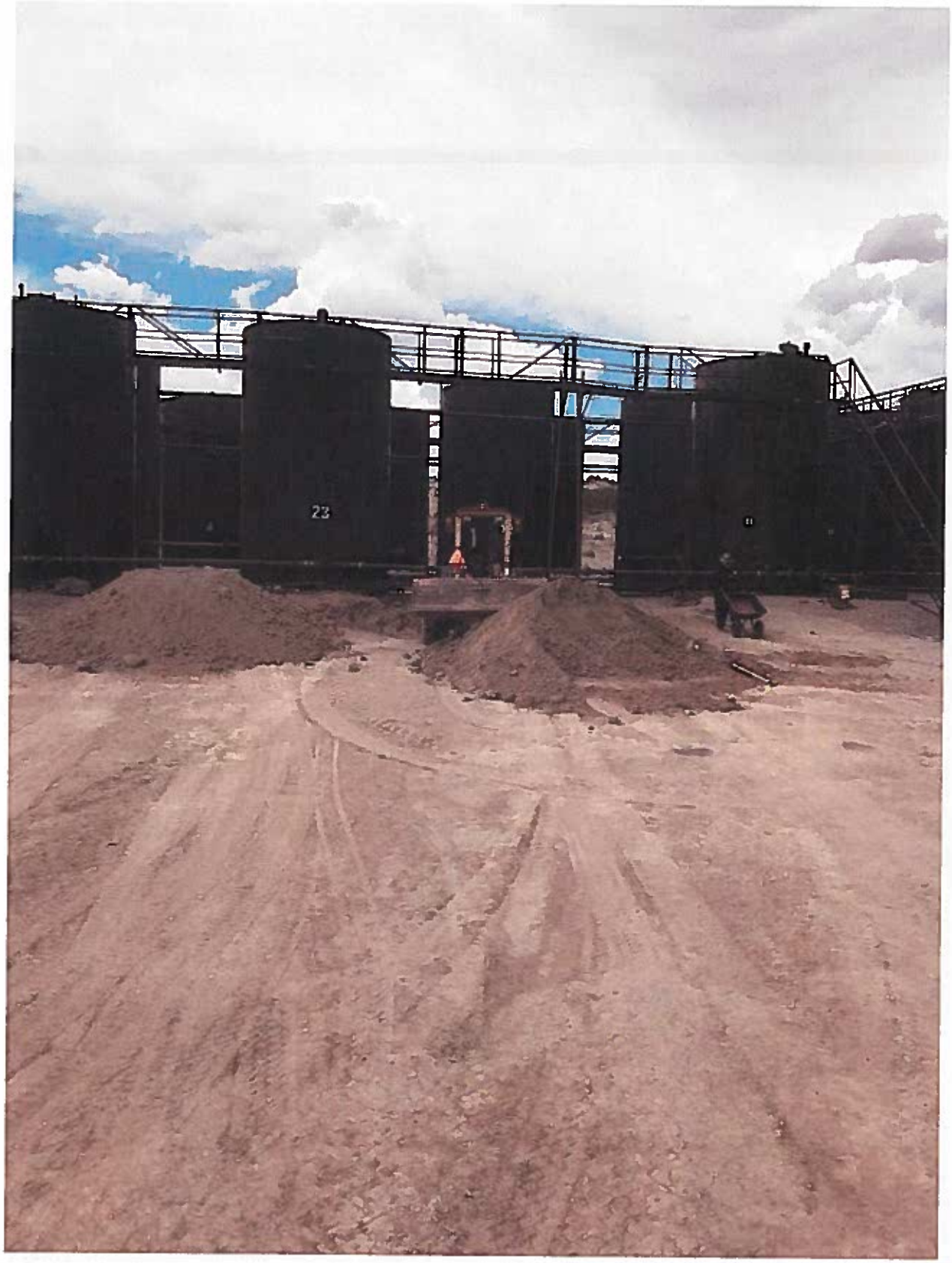
556 yards

Envirotech Land Farm #NM 01-0011

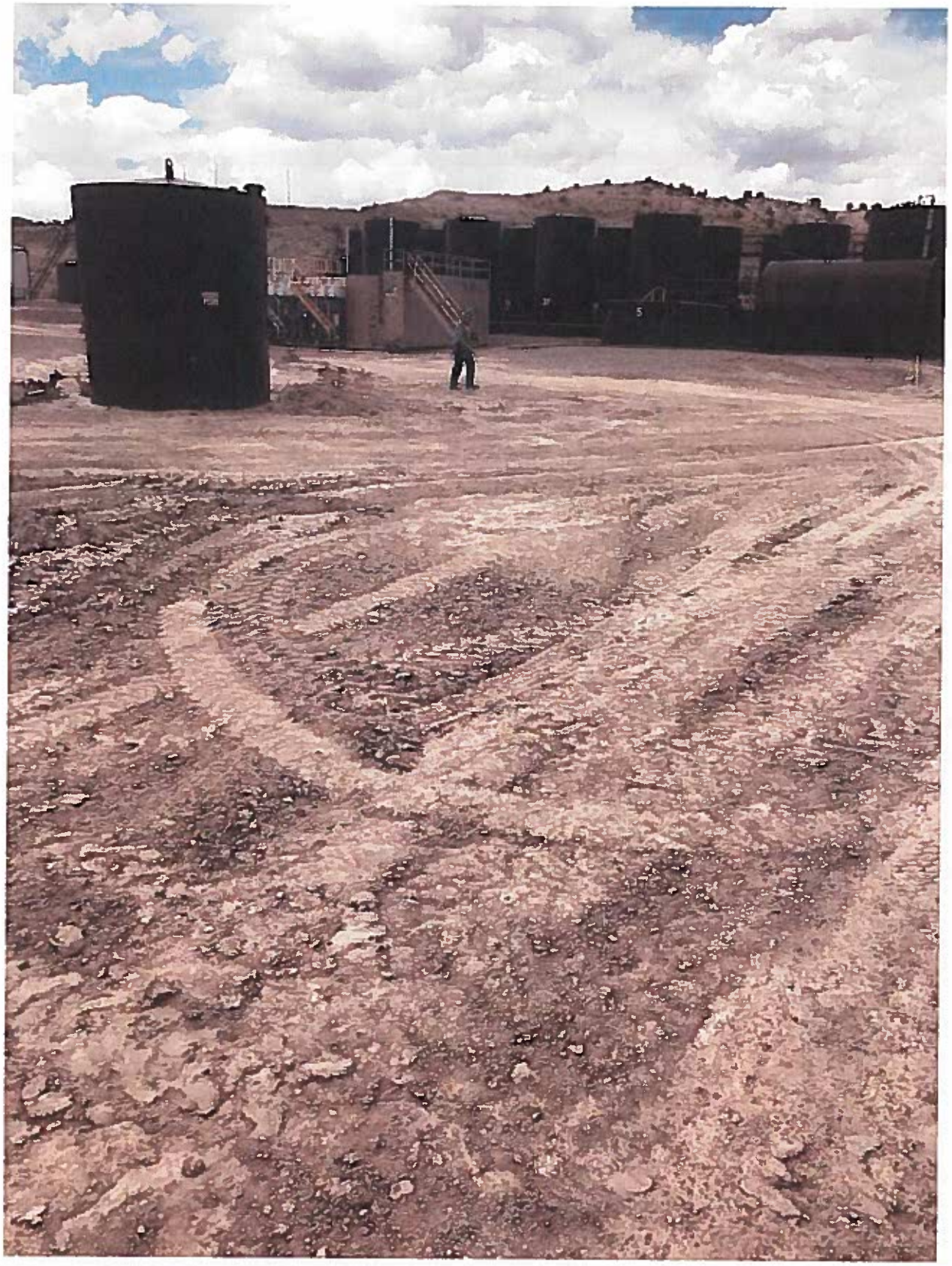
132 yards

Excavated Areas

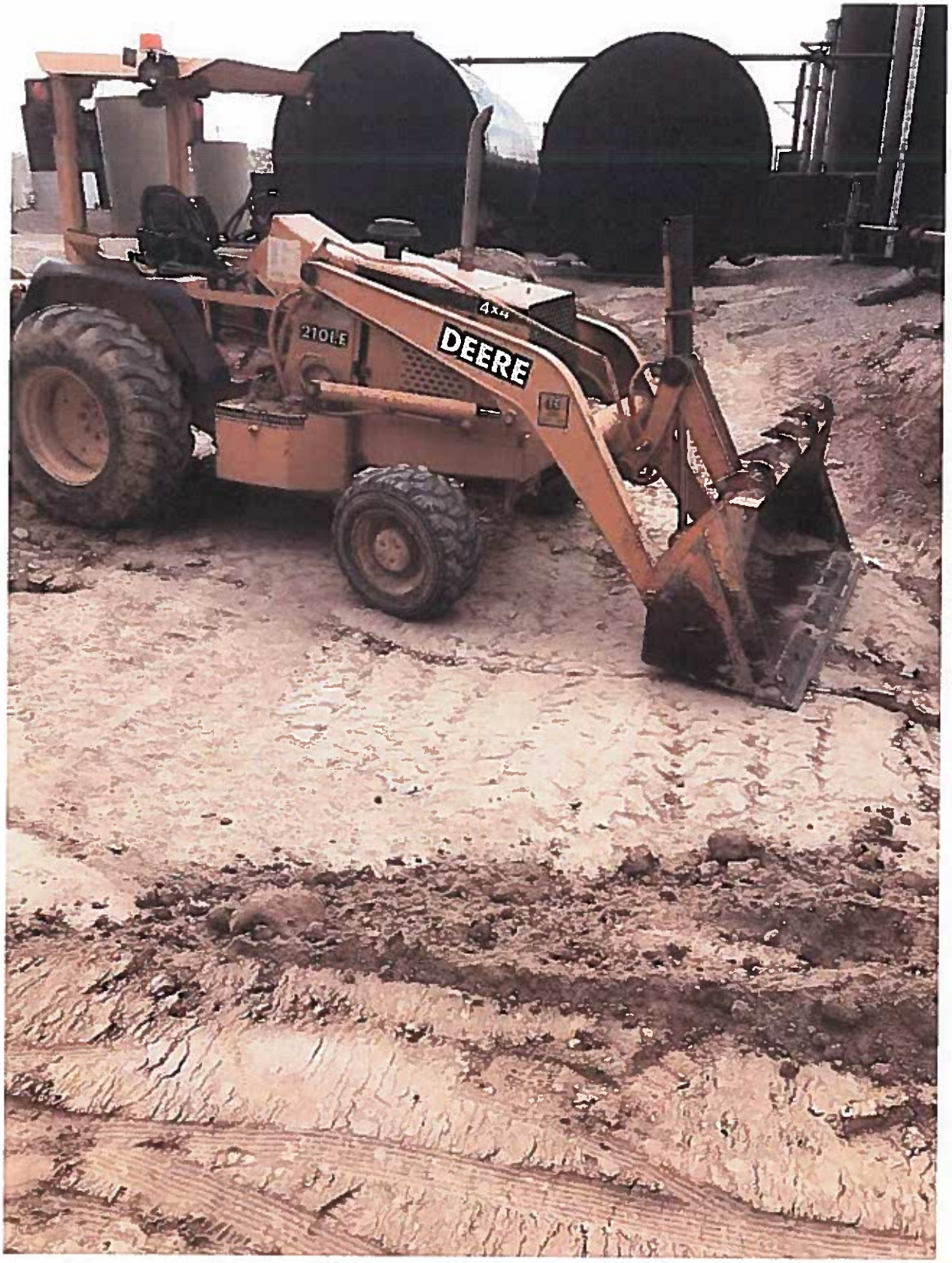
Excavated Areas



Excavated Areas



Excavated Areas



Excavated Areas

Excavated Areas

Excavated Areas

Excavated Areas

Sampling Events

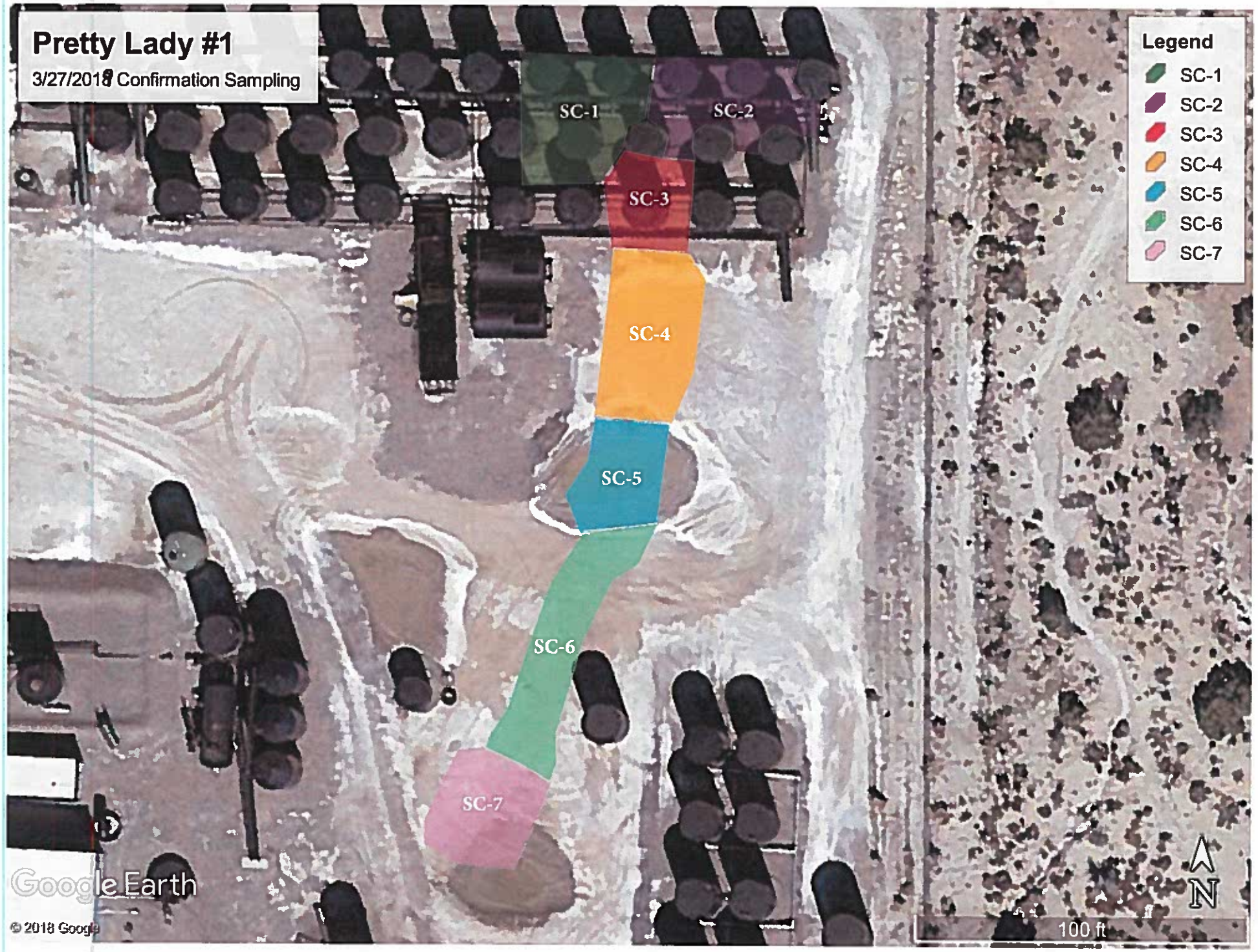
The sampling was done by Heather Woods with Rule Engineering. She collected 5 pt. composite samples in each section as outlined in the attached diagrams.

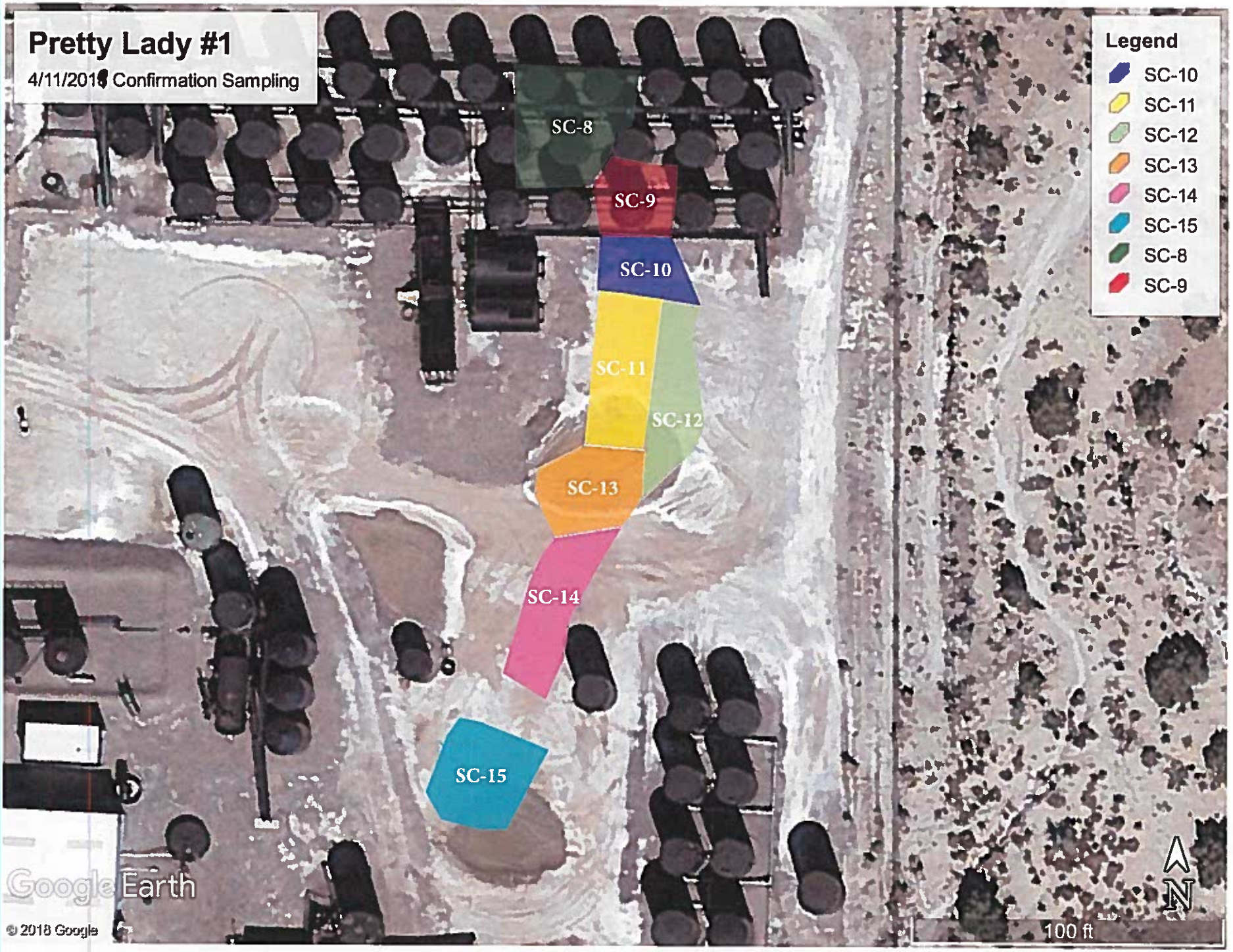
3/27/19 yielded results that further excavation needed to be done, 4/11/19 shows the sample locations from the second event and the only portion of the excavation with TPH in excess of the 100 mg/kg standard is SC-15. On 4/24/19 the final sampling event yielded results below regulatory limits.

Table 1. Summary of Confirmation Soil Sampling Preliminary Laboratory Analytical Results
Agua Moss
Pretty Lady #1
San Juan County, New Mexico

Sample Name	Date	Approximate Sample Depth (ft bgs)	Laboratory Analytical Results									
			Benzene (mg/kg)	Toluene (mg/kg)	Ethylben-zene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH as GRO (mg/kg)	TPH as DRO (mg/kg)	TPH as MRO (mg/kg)	Total TPH as GRO/DRO/MRO (mg/kg)	Chloride (mg/kg)
Remediation Standard*			10	NE	NE	NE	50	NE	NE	NE	100	600
Removed by Additional Excavation												
SC-1	3/27/2019	0 - 1	<0.024	<0.047	<0.047	<0.094	<0.212	7.7	84	93	185	<61
SC-3	3/27/2019	0 - 1	<0.023	<0.046	<0.046	<0.091	<0.206	<4.6	140	270	410	<60
SC-4	3/27/2019	0 - 3	<0.024	1.2	0.29	4.3	5.8	130	240	180	550	130
SC-5	3/27/2019	0 - 3	<0.024	<0.048	<0.048	<0.096	<0.216	8.5	32	50	91	<60
SC-7	3/27/2019	0 - 2	0.029	0.54	0.098	0.97	1.64	35	450	770	1,255	<60
SC-15	4/11/2019	0 - 3	<0.022	<0.045	<0.045	<0.089	<0.201	<4.5	42	97	139	NA
Confirmation Samples												
SC-2	3/27/2019	0 - 3	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	38	49	87	<60
SC-6	3/27/2018	0 - 2	<0.023	<0.046	<0.046	<0.092	<0.207	<4.6	42	<49	42	<59
SC-8	4/11/2019	0 - 1	<0.019	<0.038	<0.038	<0.076	<0.171	<3.8	<9.7	<48	<62	NA
SC-9	4/11/2019	0 - 1.5	<0.020	<0.039	<0.039	<0.079	<0.177	<3.9	<9.7	<48	<62	NA
SC-10	4/11/2019	0 - 3.25	<0.023	<0.046	<0.046	<0.093	<0.208	<4.6	42	55	97	NA
SC-11	4/11/2019	0 - 2	<0.022	<0.043	<0.043	<0.087	<0.195	<4.3	24	<48	24	NA
SC-12	4/11/2019	0 - 3	<0.022	<0.043	<0.043	<0.086	<0.194	<4.3	25	<48	25	NA
SC-13	4/11/2019	0 - 3	<0.021	<0.042	<0.042	<0.085	<0.190	<4.2	49	<48	49	NA
SC-14	4/11/2019	0 - 3	<0.019	0.042	<0.039	<0.077	0.042	<3.9	<9.6	<48	<62	NA
SC-16B	4/24/2019	0 - 4	<0.0250	<0.0250	<0.0250	<0.0250	<0.1	<4.5	<20.0	<25.0	<50.0	NA

Notes:
ft bgs - feet below grade surface
mg/kg - milligrams per kilogram
NE - not established
ND - not detected above laboratory reporting limits
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
MRO - mineral oil range organics
*Per Table 1 of 19.15.29.12 NMAC, based on category *"less than or equal to 50 feet"* depth to groundwater


Pretty Lady #1
3/27/2018 Confirmation Sampling
SC-1
SC-2
SC-3
SC-4
SC-5
SC-6
SC-7
Legend
SC-1
SC-2
SC-3
SC-4
SC-5
SC-6
SC-7
Google Earth
© 2018 Google
100 ft
N


Pretty Lady #1
4/11/2018 Confirmation Sampling
Legend
SC-10
SC-11
SC-12
SC-13
SC-14
SC-15
SC-8
SC-9
SC-8
SC-9
SC-10
SC-11
SC-12
SC-13
SC-14
SC-15
Google Earth
© 2018 Google
100 ft
N

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

April 02, 2019

Heather Woods
Rule Engineering LLC
501 Airport Dr., Ste 205
Farmington, NM 87401
TEL: (505) 325-1055
FAX

RE: Agua Moss Pretty Lady 1 OrderNo.: 1903D52

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/28/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1903D52**
Date Reported: **4/2/2019**

CLIENT: Rule Engineering LLC
Project: Agua Moss Pretty Lady 1
Lab ID: 1903D52-001 **Matrix:** SOIL

Client Sample ID: SC-1
Collection Date: 3/27/2019 9:18:00 AM
Received Date: 3/28/2019 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	61		mg/Kg	20	3/29/2019 11:32:45 PM	43973
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	7.7	4.7		mg/Kg	1	3/30/2019 3:02:03 AM	43946
Surr: BFB	109	70-130		%Rec	1	3/30/2019 3:02:03 AM	43946
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	84	9.9		mg/Kg	1	3/30/2019 1:33:38 PM	43966
Motor Oil Range Organics (MRO)	93	49		mg/Kg	1	3/30/2019 1:33:38 PM	43966
Surr: DNOP	120	70-130		%Rec	1	3/30/2019 1:33:38 PM	43966
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	3/30/2019 3:02:03 AM	43946
Toluene	ND	0.047		mg/Kg	1	3/30/2019 3:02:03 AM	43946
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2019 3:02:03 AM	43946
Xylenes, Total	ND	0.094		mg/Kg	1	3/30/2019 3:02:03 AM	43946
Surr: 1,2-Dichloroethane-d4	83.9	70-130		%Rec	1	3/30/2019 3:02:03 AM	43946
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	3/30/2019 3:02:03 AM	43946
Surr: Dibromofluoromethane	89.0	70-130		%Rec	1	3/30/2019 3:02:03 AM	43946
Surr: Toluene-d8	89.0	70-130		%Rec	1	3/30/2019 3:02:03 AM	43946

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

Qualifiers:

H	Holding times for preparation or analysis exceeded
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-2
Project: Agua Moss Pretty Lady 1
Collection Date: 3/27/2019 9:24:00 AM
Lab ID: 1903D52-002 **Matrix:** SOIL
Received Date: 3/28/2019 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	3/29/2019 11:45:10 PM	43973
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2019 3:30:34 AM	43946
Surr: BFB	109	70-130		%Rec	1	3/30/2019 3:30:34 AM	43946
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	38	9.4		mg/Kg	1	4/1/2019 4:56:57 PM	43966
Motor Oil Range Organics (MRO)	49	47		mg/Kg	1	4/1/2019 4:56:57 PM	43966
Surr: DNOP	103	70-130		%Rec	1	4/1/2019 4:56:57 PM	43966
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	3/30/2019 3:30:34 AM	43946
Toluene	ND	0.046		mg/Kg	1	3/30/2019 3:30:34 AM	43946
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2019 3:30:34 AM	43946
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2019 3:30:34 AM	43946
Surr: 1,2-Dichloroethane-d4	84.0	70-130		%Rec	1	3/30/2019 3:30:34 AM	43946
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	3/30/2019 3:30:34 AM	43946
Surr: Dibromofluoromethane	90.0	70-130		%Rec	1	3/30/2019 3:30:34 AM	43946
Surr: Toluene-d8	89.4	70-130		%Rec	1	3/30/2019 3:30:34 AM	43946

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
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 at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-3
Project: Agua Moss Pretty Lady 1
Collection Date: 3/27/2019 9:30:00 AM
Lab ID: 1903D52-003 **Matrix:** SOIL
Received Date: 3/28/2019 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	3/29/2019 11:57:35 PM	43973
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2019 3:59:09 AM	43946
Surr: BFB	108	70-130		%Rec	1	3/30/2019 3:59:09 AM	43946
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	140	9.7		mg/Kg	1	3/30/2019 3:01:59 PM	43966
Motor Oil Range Organics (MRO)	270	49		mg/Kg	1	3/30/2019 3:01:59 PM	43966
Surr: DNOP	125	70-130		%Rec	1	3/30/2019 3:01:59 PM	43966
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	3/30/2019 3:59:09 AM	43946
Toluene	ND	0.046		mg/Kg	1	3/30/2019 3:59:09 AM	43946
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2019 3:59:09 AM	43946
Xylenes, Total	ND	0.091		mg/Kg	1	3/30/2019 3:59:09 AM	43946
Surr: 1,2-Dichloroethane-d4	84.8	70-130		%Rec	1	3/30/2019 3:59:09 AM	43946
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/30/2019 3:59:09 AM	43946
Surr: Dibromofluoromethane	89.6	70-130		%Rec	1	3/30/2019 3:59:09 AM	43946
Surr: Toluene-d8	89.8	70-130		%Rec	1	3/30/2019 3:59:09 AM	43946

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

Qualifiers:

H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-4
Project: Agua Moss Pretty Lady 1
Collection Date: 3/27/2019 9:36:00 AM
Lab ID: 1903D52-004 **Matrix:** SOIL
Received Date: 3/28/2019 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	130	60		mg/Kg	20	3/30/2019 12:10:00 AM	43973
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	130	4.9		mg/Kg	1	3/30/2019 4:27:32 AM	43946
Surr: BFB	109	70-130		%Rec	1	3/30/2019 4:27:32 AM	43946
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	240	9.9		mg/Kg	1	4/1/2019 2:02:15 PM	43966
Motor Oil Range Organics (MRO)	180	50		mg/Kg	1	4/1/2019 2:02:15 PM	43966
Surr: DNOP	101	70-130		%Rec	1	4/1/2019 2:02:15 PM	43966
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	3/30/2019 4:27:32 AM	43946
Toluene	1.2	0.049		mg/Kg	1	3/30/2019 4:27:32 AM	43946
Ethylbenzene	0.29	0.049		mg/Kg	1	3/30/2019 4:27:32 AM	43946
Xylenes, Total	4.3	0.098		mg/Kg	1	3/30/2019 4:27:32 AM	43946
Surr: 1,2-Dichloroethane-d4	93.5	70-130		%Rec	1	3/30/2019 4:27:32 AM	43946
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/30/2019 4:27:32 AM	43946
Surr: Dibromofluoromethane	105	70-130		%Rec	1	3/30/2019 4:27:32 AM	43946
Surr: Toluene-d8	91.4	70-130		%Rec	1	3/30/2019 4:27:32 AM	43946

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-5
Project: Agua Moss Pretty Lady 1
Collection Date: 3/27/2019 9:43:00 AM
Lab ID: 1903D52-005 **Matrix:** SOIL
Received Date: 3/28/2019 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	60		mg/Kg	20	3/30/2019 12:22:24 AM	43973
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	8.5	4.8		mg/Kg	1	3/30/2019 4:56:06 AM	43946
Surr: BFB	108	70-130		%Rec	1	3/30/2019 4:56:06 AM	43946
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	32	9.7		mg/Kg	1	4/1/2019 3:14:59 PM	43966
Motor Oil Range Organics (MRO)	50	49		mg/Kg	1	4/1/2019 3:14:59 PM	43966
Surr: DNOP	96.0	70-130		%Rec	1	4/1/2019 3:14:59 PM	43966
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	3/30/2019 4:56:06 AM	43946
Toluene	ND	0.048		mg/Kg	1	3/30/2019 4:56:06 AM	43946
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2019 4:56:06 AM	43946
Xylenes, Total	ND	0.096		mg/Kg	1	3/30/2019 4:56:06 AM	43946
Surr: 1,2-Dichloroethane-d4	83.0	70-130		%Rec	1	3/30/2019 4:56:06 AM	43946
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	3/30/2019 4:56:06 AM	43946
Surr: Dibromofluoromethane	86.6	70-130		%Rec	1	3/30/2019 4:56:06 AM	43946
Surr: Toluene-d8	91.1	70-130		%Rec	1	3/30/2019 4:56:06 AM	43946

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-6
Project: Agua Moss Pretty Lady 1
Collection Date: 3/27/2019 9:47:00 AM
Lab ID: 1903D52-006 **Matrix:** SOIL
Received Date: 3/28/2019 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	59		mg/Kg	20	3/30/2019 12:34:48 AM	43973
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/30/2019 5:24:43 AM	43946
Surr: BFB	109	70-130		%Rec	1	3/30/2019 5:24:43 AM	43946
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	42	9.8		mg/Kg	1	4/1/2019 4:08:14 PM	43966
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/1/2019 4:08:14 PM	43966
Surr: DNOP	96.1	70-130		%Rec	1	4/1/2019 4:08:14 PM	43966
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	3/30/2019 5:24:43 AM	43946
Toluene	ND	0.046		mg/Kg	1	3/30/2019 5:24:43 AM	43946
Ethylbenzene	ND	0.046		mg/Kg	1	3/30/2019 5:24:43 AM	43946
Xylenes, Total	ND	0.092		mg/Kg	1	3/30/2019 5:24:43 AM	43946
Surr: 1,2-Dichloroethane-d4	82.2	70-130		%Rec	1	3/30/2019 5:24:43 AM	43946
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	3/30/2019 5:24:43 AM	43946
Surr: Dibromofluoromethane	84.6	70-130		%Rec	1	3/30/2019 5:24:43 AM	43946
Surr: Toluene-d8	91.5	70-130		%Rec	1	3/30/2019 5:24:43 AM	43946

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Project: Agua Moss Pretty Lady 1
Lab ID: 1903D52-007 **Matrix:** SOIL

Client Sample ID: SC-7
Collection Date: 3/27/2019 9:52:00 AM
Received Date: 3/28/2019 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: **MRA**
Chloride	ND	60		mg/Kg	20	3/30/2019 12:47:12 AM	43973
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: **RAA**
Gasoline Range Organics (GRO)	35	4.7		mg/Kg	1	3/30/2019 5:53:18 AM	43946
Surr: BFB	106	70-130		%Rec	1	3/30/2019 5:53:18 AM	43946
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **lrm**
Diesel Range Organics (DRO)	450	10		mg/Kg	1	3/30/2019 4:30:08 PM	43966
Motor Oil Range Organics (MRO)	770	50		mg/Kg	1	3/30/2019 4:30:08 PM	43966
Surr: DNOP	132	70-130	S	%Rec	1	3/30/2019 4:30:08 PM	43966
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: **RAA**
Benzene	0.029	0.023		mg/Kg	1	3/30/2019 5:53:18 AM	43946
Toluene	0.54	0.047		mg/Kg	1	3/30/2019 5:53:18 AM	43946
Ethylbenzene	0.098	0.047		mg/Kg	1	3/30/2019 5:53:18 AM	43946
Xylenes, Total	0.97	0.093		mg/Kg	1	3/30/2019 5:53:18 AM	43946
Surr: 1,2-Dichloroethane-d4	90.1	70-130		%Rec	1	3/30/2019 5:53:18 AM	43946
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	3/30/2019 5:53:18 AM	43946
Surr: Dibromofluoromethane	92.5	70-130		%Rec	1	3/30/2019 5:53:18 AM	43946
Surr: Toluene-d8	87.0	70-130		%Rec	1	3/30/2019 5:53:18 AM	43946

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
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 at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1903D52**

02-Apr-19

Client: Rule Engineering LLC

Project: Agua Moss Pretty Lady 1

Sample ID: MB-43973	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 43973	RunNo: 58738
Prep Date: 3/29/2019	Analysis Date: 3/29/2019	SeqNo: 1974899 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-43973	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 43973	RunNo: 58738
Prep Date: 3/29/2019	Analysis Date: 3/29/2019	SeqNo: 1974900 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.0	90	110			

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
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 at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D52

02-Apr-19

Client: Rule Engineering LLC

Project: Agua Moss Pretty Lady 1

Sample ID: **LCS-43966** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **43966** RunNo: **58780**

Prep Date: **3/29/2019** Analysis Date: **3/30/2019** SeqNo: **1975207** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	63.9	124			
Surr: DNOP	5.4		5.000		108	70	130			

Sample ID: **MB-43966** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **43966** RunNo: **58780**

Prep Date: **3/29/2019** Analysis Date: **3/30/2019** SeqNo: **1975208** 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		113	70	130			

Sample ID: **1903D52-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **SC-1** Batch ID: **43966** RunNo: **58780**

Prep Date: **3/29/2019** Analysis Date: **3/30/2019** SeqNo: **1975361** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	170	10	50.35	84.36	163	53.5	126			S
Surr: DNOP	5.8		5.035		115	70	130			

Sample ID: **1903D52-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **SC-1** Batch ID: **43966** RunNo: **58780**

Prep Date: **3/29/2019** Analysis Date: **3/30/2019** SeqNo: **1975362** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	180	9.8	48.88	84.36	188	53.5	126	5.78	21.7	S
Surr: DNOP	5.8		4.888		119	70	130	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D52

02-Apr-19

Client: Rule Engineering LLC

Project: Agua Moss Pretty Lady 1

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List
Client ID: LCSS	Batch ID: R58745	RunNo: 58745
Prep Date:	Analysis Date: 3/29/2019	SeqNo: 1973859 Units: %Rec

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.8	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.41		0.5000		82.5	70	130			
Surr: Toluene-d8	0.44		0.5000		88.8	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List
Client ID: PBS	Batch ID: R58745	RunNo: 58745
Prep Date:	Analysis Date: 3/29/2019	SeqNo: 1973863 Units: %Rec

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.40		0.5000		79.9	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.40		0.5000		80.1	70	130			
Surr: Toluene-d8	0.47		0.5000		93.1	70	130			

Sample ID: lcs-43946	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List
Client ID: LCSS	Batch ID: 43946	RunNo: 58745
Prep Date: 3/28/2019	Analysis Date: 3/30/2019	SeqNo: 1974854 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.5	70	130			
Toluene	0.96	0.050	1.000	0	95.8	70	130			
Ethylbenzene	0.95	0.050	1.000	0	95.4	70	130			
Xylenes, Total	2.8	0.10	3.000	0	94.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.41		0.5000		82.1	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		88.7	70	130			
Surr: Toluene-d8	0.45		0.5000		89.8	70	130			

Sample ID: mb-43946	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List
Client ID: PBS	Batch ID: 43946	RunNo: 58745
Prep Date: 3/28/2019	Analysis Date: 3/30/2019	SeqNo: 1974855 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.1	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			

Qualifiers:

- H Holding times for preparation or analysis exceeded
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1903D52**

02-Apr-19

Client: Rule Engineering LLC

Project: Agua Moss Pretty Lady 1

Sample ID: **mb-43946**	SampType: **MBLK**		TestCode: **EPA Method 8260B: Volatiles Short List**		
Client ID: **PBS**	Batch ID: **43946**		RunNo: **58745**		
Prep Date: **3/28/2019**	Analysis Date: **3/30/2019**		SeqNo: **1974855**	Units: **mg/Kg**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.45		0.5000		90.0	70	130			
Surr: Toluene-d8	0.44		0.5000		87.4	70	130			

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
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 at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D52

02-Apr-19

Client: Rule Engineering LLC

Project: Agua Moss Pretty Lady 1

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: LCSS	Batch ID: R58745	RunNo: 58745
Prep Date:	Analysis Date: 3/29/2019	SeqNo: 1973867 Units: %Rec

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

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: PBS	Batch ID: R58745	RunNo: 58745
Prep Date:	Analysis Date: 3/29/2019	SeqNo: 1973868 Units: %Rec

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	530		500.0		107	70	130			

Sample ID: lcs-43946	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: LCSS	Batch ID: 43946	RunNo: 58745
Prep Date: 3/28/2019	Analysis Date: 3/30/2019	SeqNo: 1974886 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	79.1	70	130			
Surr: BFB	530		500.0		107	70	130			

Sample ID: mb-43946	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range
Client ID: PBS	Batch ID: 43946	RunNo: 58745
Prep Date: 3/28/2019	Analysis Date: 3/30/2019	SeqNo: 1974887 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	550		500.0		109	70	130			

Qualifiers:

- H Holding times for preparation or analysis exceeded
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: RULE ENGINEERING LL Work Order Number: 1903D52 RcptNo: 1

Received By: Anne Thorne 3/28/2019 7:00:00 AM Anne Thorne
Completed By: Anne Thorne 3/28/2019 9:11:49 AM Anne Thorne
Reviewed By: DAD 3/28/19
Labeled by: YG 3/28/19

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: ____ (<2 or >12 unless noted)
Adjusted? ____
Checked by: YG 3/28/19

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

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

Chain-of-Custody Record

Client: Rule Engineering

Mailing Address: 501 Airport Dr, Ste 205
Farmington, NM 87401

Phone #: (505) 716-2787

email or Fax#: hwoods@ruleengineering.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: Results Monday
☐ Standard ☑ Rush 4/1/19

Project Name: Agua Moss Pretty Lady #1

Project #:

Project Manager: Heather Woods

Sampler: Heather Woods

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.0°

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1903052	BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/27/19	0918	Soil	SC-1	(1) 4oz Glass	Non	001	X	X					X			
3/27/19	0924		SC-2			002	X	X					X			
3/27/19	0930		SC-3			003	X	X					X			
3/27/19	0936		SC-4			004	X	X					X			
3/27/19	0943		SC-5			005	X	X					X			
3/27/19	0947		SC-6			006	X	X					X			
3/27/19	0952		SC-7			007	X	X					X			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
3/27/19	1740	Heath M. Woods			3/27/19	1740
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
					03/28/19	0700

Remarks: Direct Bill to Agua Moss

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

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

April 16, 2019

Heather Woods
Rule Engineering LLC
501 Airport Dr., Ste 205
Farmington, NM 87401
TEL: (505) 325-1055
FAX

RE: Agua Moss Pretty Lady 1 OrderNo.: 1904668

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/12/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1904668**
Date Reported: **4/16/2019**

CLIENT: Rule Engineering LLC
Project: Agua Moss Pretty Lady 1
Lab ID: 1904668-001 **Matrix:** SOIL

Client Sample ID: SC-8
Collection Date: 4/11/2019 10:29:00 AM
Received Date: 4/12/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **lrm**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/15/2019 9:13:39 AM	44321
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/15/2019 9:13:39 AM	44321
Surr: DNOP	95.2	70-130		%Rec	1	4/15/2019 9:13:39 AM	44321
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/12/2019 8:56:50 AM	G59110
Surr: BFB	92.0	73.8-119		%Rec	1	4/12/2019 8:56:50 AM	G59110
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	0.019		mg/Kg	1	4/12/2019 8:56:50 AM	B59110
Toluene	ND	0.038		mg/Kg	1	4/12/2019 8:56:50 AM	B59110
Ethylbenzene	ND	0.038		mg/Kg	1	4/12/2019 8:56:50 AM	B59110
Xylenes, Total	ND	0.076		mg/Kg	1	4/12/2019 8:56:50 AM	B59110
Surr: 4-Bromofluorobenzene	91.0	80-120		%Rec	1	4/12/2019 8:56:50 AM	B59110

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-9
Project: Agua Moss Pretty Lady 1
Collection Date: 4/11/2019 10:32:00 AM
Lab ID: 1904668-002 **Matrix:** SOIL **Received Date:** 4/12/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/15/2019 9:35:45 AM	44321
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/15/2019 9:35:45 AM	44321
Surr: DNOP	96.6	70-130		%Rec	1	4/15/2019 9:35:45 AM	44321
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	4/12/2019 9:20:30 AM	G59110
Surr: BFB	93.5	73.8-119		%Rec	1	4/12/2019 9:20:30 AM	G59110
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	4/12/2019 9:20:30 AM	B59110
Toluene	ND	0.039		mg/Kg	1	4/12/2019 9:20:30 AM	B59110
Ethylbenzene	ND	0.039		mg/Kg	1	4/12/2019 9:20:30 AM	B59110
Xylenes, Total	ND	0.079		mg/Kg	1	4/12/2019 9:20:30 AM	B59110
Surr: 4-Bromofluorobenzene	92.4	80-120		%Rec	1	4/12/2019 9:20:30 AM	B59110

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-10
Project: Agua Moss Pretty Lady 1
Collection Date: 4/11/2019 10:35:00 AM
Lab ID: 1904668-003 **Matrix:** SOIL
Received Date: 4/12/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	42	9.3		mg/Kg	1	4/15/2019 9:57:44 AM	44321
Motor Oil Range Organics (MRO)	55	47		mg/Kg	1	4/15/2019 9:57:44 AM	44321
Surr: DNOP	100	70-130		%Rec	1	4/15/2019 9:57:44 AM	44321
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/12/2019 9:43:59 AM	G59110
Surr: BFB	97.1	73.8-119		%Rec	1	4/12/2019 9:43:59 AM	G59110
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/12/2019 9:43:59 AM	B59110
Toluene	ND	0.046		mg/Kg	1	4/12/2019 9:43:59 AM	B59110
Ethylbenzene	ND	0.046		mg/Kg	1	4/12/2019 9:43:59 AM	B59110
Xylenes, Total	ND	0.093		mg/Kg	1	4/12/2019 9:43:59 AM	B59110
Surr: 4-Bromofluorobenzene	94.0	80-120		%Rec	1	4/12/2019 9:43:59 AM	B59110

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-11
Project: Agua Moss Pretty Lady 1
Collection Date: 4/11/2019 10:38:00 AM
Lab ID: 1904668-004 **Matrix:** SOIL
Received Date: 4/12/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	25	9.6		mg/Kg	1	4/15/2019 10:19:55 AM	44321
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/15/2019 10:19:55 AM	44321
Surr: DNOP	98.4	70-130		%Rec	1	4/15/2019 10:19:55 AM	44321
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	4/12/2019 10:07:26 AM	G59110
Surr: BFB	97.6	73.8-119		%Rec	1	4/12/2019 10:07:26 AM	G59110
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	4/12/2019 10:07:26 AM	B59110
Toluene	ND	0.043		mg/Kg	1	4/12/2019 10:07:26 AM	B59110
Ethylbenzene	ND	0.043		mg/Kg	1	4/12/2019 10:07:26 AM	B59110
Xylenes, Total	ND	0.087		mg/Kg	1	4/12/2019 10:07:26 AM	B59110
Surr: 4-Bromofluorobenzene	94.0	80-120		%Rec	1	4/12/2019 10:07:26 AM	B59110

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-12
Project: Agua Moss Pretty Lady 1
Collection Date: 4/11/2019 10:42:00 AM
Lab ID: 1904668-005 **Matrix:** SOIL
Received Date: 4/12/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: **lrm**
Diesel Range Organics (DRO)	25	9.5		mg/Kg	1	4/15/2019 10:42:02 AM	44321
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/15/2019 10:42:02 AM	44321
Surr: DNOP	100	70-130		%Rec	1	4/15/2019 10:42:02 AM	44321
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	4/12/2019 10:30:49 AM	G59110
Surr: BFB	98.5	73.8-119		%Rec	1	4/12/2019 10:30:49 AM	G59110
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	0.022		mg/Kg	1	4/12/2019 10:30:49 AM	B59110
Toluene	ND	0.043		mg/Kg	1	4/12/2019 10:30:49 AM	B59110
Ethylbenzene	ND	0.043		mg/Kg	1	4/12/2019 10:30:49 AM	B59110
Xylenes, Total	ND	0.086		mg/Kg	1	4/12/2019 10:30:49 AM	B59110
Surr: 4-Bromofluorobenzene	94.0	80-120		%Rec	1	4/12/2019 10:30:49 AM	B59110

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
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 at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-13
Project: Agua Moss Pretty Lady 1
Collection Date: 4/11/2019 10:40:00 AM
Lab ID: 1904668-006 **Matrix:** SOIL
Received Date: 4/12/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	49	9.6		mg/Kg	1	4/15/2019 11:04:12 AM	44321
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/15/2019 11:04:12 AM	44321
Surr: DNOP	101	70-130		%Rec	1	4/15/2019 11:04:12 AM	44321
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	4/12/2019 10:54:20 AM	G59110
Surr: BFB	96.7	73.8-119		%Rec	1	4/12/2019 10:54:20 AM	G59110
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	4/12/2019 10:54:20 AM	B59110
Toluene	ND	0.042		mg/Kg	1	4/12/2019 10:54:20 AM	B59110
Ethylbenzene	ND	0.042		mg/Kg	1	4/12/2019 10:54:20 AM	B59110
Xylenes, Total	ND	0.085		mg/Kg	1	4/12/2019 10:54:20 AM	B59110
Surr: 4-Bromofluorobenzene	90.0	80-120		%Rec	1	4/12/2019 10:54:20 AM	B59110

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
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 at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-14
Project: Agua Moss Pretty Lady 1
Collection Date: 4/11/2019 10:45:00 AM
Lab ID: 1904668-007 **Matrix:** SOIL
Received Date: 4/12/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/15/2019 11:26:21 AM	44321
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/15/2019 11:26:21 AM	44321
Surr: DNOP	98.6	70-130		%Rec	1	4/15/2019 11:26:21 AM	44321
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	4/12/2019 11:18:04 AM	G59110
Surr: BFB	91.7	73.8-119		%Rec	1	4/12/2019 11:18:04 AM	G59110
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	4/12/2019 11:18:04 AM	B59110
Toluene	0.042	0.039		mg/Kg	1	4/12/2019 11:18:04 AM	B59110
Ethylbenzene	ND	0.039		mg/Kg	1	4/12/2019 11:18:04 AM	B59110
Xylenes, Total	ND	0.077		mg/Kg	1	4/12/2019 11:18:04 AM	B59110
Surr: 4-Bromofluorobenzene	90.4	80-120		%Rec	1	4/12/2019 11:18:04 AM	B59110

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Client Sample ID: SC-15
Project: Agua Moss Pretty Lady 1
Collection Date: 4/11/2019 10:48:00 AM
Lab ID: 1904668-008 **Matrix:** SOIL
Received Date: 4/12/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	42	9.8		mg/Kg	1	4/15/2019 11:48:37 AM	44321
Motor Oil Range Organics (MRO)	97	49		mg/Kg	1	4/15/2019 11:48:37 AM	44321
Surr: DNOP	102	70-130		%Rec	1	4/15/2019 11:48:37 AM	44321
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	4/12/2019 11:41:49 AM	G59110
Surr: BFB	93.9	73.8-119		%Rec	1	4/12/2019 11:41:49 AM	G59110
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.022		mg/Kg	1	4/12/2019 11:41:49 AM	B59110
Toluene	ND	0.045		mg/Kg	1	4/12/2019 11:41:49 AM	B59110
Ethylbenzene	ND	0.045		mg/Kg	1	4/12/2019 11:41:49 AM	B59110
Xylenes, Total	ND	0.089		mg/Kg	1	4/12/2019 11:41:49 AM	B59110
Surr: 4-Bromofluorobenzene	93.2	80-120		%Rec	1	4/12/2019 11:41:49 AM	B59110

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

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1904668**

16-Apr-19

Client: Rule Engineering LLC

Project: Agua Moss Pretty Lady 1

Sample ID: LCS-44321	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 44321			RunNo: 59146					
Prep Date: 4/12/2019	Analysis Date: 4/15/2019			SeqNo: 1991064		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.4	63.9	124			
Surr: DNOP	4.3		5.000		85.4	70	130			

Sample ID: MB-44321	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 44321			RunNo: 59146					
Prep Date: 4/12/2019	Analysis Date: 4/15/2019			SeqNo: 1991065		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	9.2		10.00		92.1	70	130			

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
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 at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1904668**

16-Apr-19

Client: Rule Engineering LLC

Project: Agua Moss Pretty Lady 1

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: G59110	RunNo: 59110
Prep Date:	Analysis Date: 4/12/2019	SeqNo: 1990090 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	920		1000		92.5	73.8	119			

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: G59110	RunNo: 59110
Prep Date:	Analysis Date: 4/12/2019	SeqNo: 1990091 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	80.1	123			
Surr: BFB	1000		1000		103	73.8	119			

Qualifiers:

H	Holding times for preparation or analysis exceeded
PQL	Practical Quantitative Limit
S	% Recovery outside of range due to dilution or matrix
ND	Not Detected at the Reporting Limit
RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904668

16-Apr-19

Client: Rule Engineering LLC

Project: Agua Moss Pretty Lady 1

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID: PBS	Batch ID: B59110	RunNo: 59110
Prep Date:	Analysis Date: 4/12/2019	SeqNo: 1990137 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.9	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles
Client ID: LCSS	Batch ID: B59110	RunNo: 59110
Prep Date:	Analysis Date: 4/12/2019	SeqNo: 1990138 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	85.6	80	120			
Toluene	0.90	0.050	1.000	0	89.7	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.1	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.7	80	120			

Sample ID: 1904668-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles
Client ID: SC-8	Batch ID: B59110	RunNo: 59110
Prep Date:	Analysis Date: 4/12/2019	SeqNo: 1990140 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.019	0.7616	0	90.9	63.9	127			
Toluene	0.73	0.038	0.7616	0.01051	94.0	69.9	131			
Ethylbenzene	0.72	0.038	0.7616	0	94.9	71	132			
Xylenes, Total	2.2	0.076	2.285	0.01104	95.7	71.8	131			
Surr: 4-Bromofluorobenzene	0.73		0.7616		96.4	80	120			

Sample ID: 1904668-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles
Client ID: SC-8	Batch ID: B59110	RunNo: 59110
Prep Date:	Analysis Date: 4/12/2019	SeqNo: 1990141 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.019	0.7616	0	90.8	63.9	127	0.131	20	
Toluene	0.73	0.038	0.7616	0.01051	94.3	69.9	131	0.409	20	
Ethylbenzene	0.72	0.038	0.7616	0	94.9	71	132	0.0626	20	
Xylenes, Total	2.2	0.076	2.285	0.01104	95.4	71.8	131	0.367	20	
Surr: 4-Bromofluorobenzene	0.68		0.7616		89.8	80	120	0	0	

Qualifiers:

- H Holding times for preparation or analysis exceeded
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: RULE ENGINEERING LL Work Order Number: 1904668 RcptNo: 1

Received By: Desiree Dominguez 4/12/2019 8:10:00 AM DD

Completed By: Anne Thorne 4/12/2019 9:03:19 AM Anne Thorne

Reviewed By: DAD 4/12/19

Labeled by: JC 4-12-19

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: 1 (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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 ☐	Checked by: JC 4-17-19

Special Handling (if applicable)

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

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes			

Chain-of-Custody Record

Client: Rule Engineering

Mailing Address: 501 Airport Dr. Ste 205
Farmington, NM 87401

Phone #: (505) 716-2787

email or Fax#: hwoods@ruleengineering.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush Results 4/15

Project Name: Agua Moss Pretty Lady #1

Project #:

Project Manager: Heather Woods

Sampler: Heather Woods

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.6°c

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 1904668	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4/11/19	1029	Soil	SC-8	(1) 4oz Glass	Non	001	X	X								
4/11/19	1032	Soil	SC-9	(1) 4oz Glass	Non	002	X	X								
4/11/19	1035	Soil	SC-10	(1) 4oz Glass	Non	003	X	X								
4/11/19	1038	Soil	SC-11	(1) 4 oz Glass	Non	004	X	X								
4/11/19	1042	Soil	SC-12	(1) 4 oz Glass	Non	005	X	X								
4/11/19	1040	Soil	SC-13	(1) 4oz Glass	Non	006	X	X								
4/11/19	1045	Soil	SC-14	(1) 4 oz Glass	Non	007	X	X								
4/11/19	1048	Soil	SC-15	(1) 4 oz Glass	Non	008	X	X								

NFS HW

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
4/11/19	1711	Heather M. Woods	Christin Walls		4/11/19	1711
4/11/19	1806	Christin Walls	BB	Courier	4/12/19	8:10

Remarks: Direct Bill to Agua Moss

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.

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Analytical Laboratory

Analytical Report

Report Summary

Client: Agua Moss LLC

Samples Received: 4/24/2019
Job Number: 07117-0003
Work Order: P904124
Project Name/Location: Pretty Lady #1

Report Reviewed By: Walter Hinchman, Laboratory Director Date: 4/26/19

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

envirotech
Analytical Laboratory

Agua Moss LLC	Project Name:	Pretty Lady #1	
PO Box 600	Project Number:	07117-0003	**Reported:**
Farmington NM, 87499	Project Manager:	Heather Woods	04/26/19 14:58

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-16B	P904124-01A	Soil	04/24/19	04/24/19	Glass Jar, 4 oz.

envirotech
Analytical Laboratory

Agua Moss LLC	Project Name:	Pretty Lady #1	
PO Box 600	Project Number:	07117-0003	**Reported:**
Farmington NM, 87499	Project Manager:	Heather Woods	04/26/19 14:58

SC-16B
P904124-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1917025	04/24/19	04/25/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1917025	04/24/19	04/25/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1917025	04/24/19	04/25/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1917025	04/24/19	04/25/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1917025	04/24/19	04/25/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1917025	04/24/19	04/25/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*99.8 %*		*50-150*	*1917025*	*04/24/19*	*04/25/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1917025	04/24/19	04/25/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1917028	04/25/19	04/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1917028	04/25/19	04/25/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.3 %*		*50-150*	*1917025*	*04/24/19*	*04/25/19*	*EPA 8015D*	
Surrogate: n-Nonane		*92.4 %*		*50-200*	*1917028*	*04/25/19*	*04/25/19*	*EPA 8015D*	

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Analytical Laboratory

Agua Moss LLC	Project Name:	Pretty Lady #1	
PO Box 600	Project Number:	07117-0003	Reported:
Farmington NM, 87499	Project Manager:	Heather Woods	04/26/19 14:58

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1917025 - Purge and Trap EPA 5030A										
Blank (1917025-BLK1)				Prepared: 04/24/19 1 Analyzed: 04/25/19 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	*7.85*		"	*8.00*		*98.2*	*50-150*			
LCS (1917025-BS1)				Prepared: 04/24/19 1 Analyzed: 04/25/19 1						
Benzene	4.35	0.0250	mg/kg	5.00		87.0	70-130			
Toluene	4.74	0.0250	"	5.00		94.7	70-130			
Ethylbenzene	4.71	0.0250	"	5.00		94.1	70-130			
p,m-Xylene	9.73	0.0500	"	10.0		97.3	70-130			
o-Xylene	4.71	0.0250	"	5.00		94.2	70-130			
Total Xylenes	14.4	0.0250	"	15.0		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.61*		"	*8.00*		*95.1*	*50-150*			
Matrix Spike (1917025-MS1)		Source: P904124-01		Prepared: 04/24/19 1 Analyzed: 04/25/19 1						
Benzene	4.57	0.0250	mg/kg	5.00	ND	91.4	54.3-133			
Toluene	4.97	0.0250	"	5.00	ND	99.5	61.4-130			
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.1	61.4-133			
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131			
o-Xylene	4.95	0.0250	"	5.00	ND	99.0	63.3-131			
Total Xylenes	15.2	0.0250	"	15.0	ND	101	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.74*		"	*8.00*		*96.7*	*50-150*			
Matrix Spike Dup (1917025-MSD1)		Source: P904124-01		Prepared: 04/24/19 1 Analyzed: 04/25/19 1						
Benzene	4.63	0.0250	mg/kg	5.00	ND	92.6	54.3-133	1.33	20	
Toluene	5.03	0.0250	"	5.00	ND	101	61.4-130	1.19	20	
Ethylbenzene	5.01	0.0250	"	5.00	ND	100	61.4-133	1.09	20	
p,m-Xylene	10.3	0.0500	"	10.0	ND	103	63.3-131	0.981	20	
o-Xylene	5.01	0.0250	"	5.00	ND	100	63.3-131	1.14	20	
Total Xylenes	15.3	0.0250	"	15.0	ND	102	63.3-131	1.03	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.78*		"	*8.00*		*97.2*	*50-150*			

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Analytical Laboratory

Agua Moss LLC	Project Name:	Pretty Lady #1	
PO Box 600	Project Number:	07117-0003	Reported:
Farmington NM, 87499	Project Manager:	Heather Woods	04/26/19 14:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1917025 - Purge and Trap EPA 5030A										
Blank (1917025-BLK1)				Prepared: 04/24/19 1 Analyzed: 04/25/19 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		"	*8.00*		*94.9*	*50-150*			
LCS (1917025-BS2)				Prepared: 04/24/19 1 Analyzed: 04/25/19 1						
Gasoline Range Organics (C6-C10)	52.4	20.0	mg/kg	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.81*		"	*8.00*		*97.6*	*50-150*			
Matrix Spike (1917025-MS2)		Source: P904124-01		Prepared: 04/24/19 1 Analyzed: 04/25/19 1						
Gasoline Range Organics (C6-C10)	53.8	20.0	mg/kg	50.0	ND	108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.81*		"	*8.00*		*97.7*	*50-150*			
Matrix Spike Dup (1917025-MSD2)		Source: P904124-01		Prepared: 04/24/19 1 Analyzed: 04/25/19 1						
Gasoline Range Organics (C6-C10)	53.6	20.0	mg/kg	50.0	ND	107	70-130	0.404	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.79*		"	*8.00*		*97.3*	*50-150*			

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Analytical Laboratory

Agua Moss LLC	Project Name:	Pretty Lady #1	
PO Box 600	Project Number:	07117-0003	Reported:
Farmington NM, 87499	Project Manager:	Heather Woods	04/26/19 14:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1917028 - DRO Extraction EPA 3570										
Blank (1917028-BLK1)				Prepared: 04/25/19 0 Analyzed: 04/25/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*49.9*		"	*50.0*		*99.8*	*50-200*			
LCS (1917028-BS1)				Prepared: 04/25/19 0 Analyzed: 04/25/19 1						
Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500		96.2	38-132			
Surrogate: n-Nonane	*46.4*		"	*50.0*		*92.7*	*50-200*			
Matrix Spike (1917028-MS1)		Source: P904124-01		Prepared: 04/25/19 0 Analyzed: 04/25/19 1						
Diesel Range Organics (C10-C28)	500	25.0	mg/kg	500	ND	100	38-132			
Surrogate: n-Nonane	*46.3*		"	*50.0*		*92.5*	*50-200*			
Matrix Spike Dup (1917028-MSD1)		Source: P904124-01		Prepared: 04/25/19 0 Analyzed: 04/25/19 1						
Diesel Range Organics (C10-C28)	515	25.0	mg/kg	500	ND	103	38-132	2.95	20	
Surrogate: n-Nonane	*47.0*		"	*50.0*		*94.1*	*50-200*			

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Agua Moss LLC	Project Name:	Pretty Lady #1	
PO Box 600	Project Number:	07117-0003	**Reported:**
Farmington NM, 87499	Project Manager:	Heather Woods	04/26/19 14:58

Notes and Definitions

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

Project Information

Chain of Custody

Page 1 of 1

Client:	Agua Mass
Project:	Pretty Lady #1
Project Manager:	Heather Woods
Address:	
City, State, Zip	
Phone:	
Email:	hwoods@ruleengineering.com

Report Attention

Report due by:	4/25/19
Attention:	Philana Thompson
Address:	
City, State, Zip	
Phone:	
Email:	pthompson@mercion.biz

Lab Use Only

Lab WO#	Job Number
P904124	07117-0003

TAT

1D	3D
X	

EPA Program

RCRA	CWA	SDWA

State

NM	CO	UT	AZ
X			

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1					Remarks
1135	4/24/19	S	1	SC-16B	1	X	X	X									

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Heather M-Lee	4/24/19	3:25pm	Paola Lopez	4-24-19	3:25pm
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: Y / (N)

T1 15.4 T2 15.9 T3 15.4

AVG Temp °C 15.6

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

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

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

envirotech Analytical Laboratory

5796 US Highway 64, Farmington, NM 87401

24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com

labadmin@envirotech-inc.com