

### Memorandum

To: Nelson Velez, New Mexico Oil Conservation Division (NMOCD)

From: Mitch Killough, Hilcorp Energy Company (Hilcorp)

Date: 7/3/2023

Subject: Culpepper Martin 100S – Final Form C-141 Submittal (Closure Request)

On 4/4/2023 at approximately 10:00 AM (MT), Hilcorp Energy Company (Hilcorp) discovered a 54-bbl release of produced water at the Culpepper Martin 100S in San Juan County, NM. Shortly after commencing the unloading of produced water from a Hilcorp-owned storage tank, fluids began spilling from the third-party water hauling truck onto the pad. The spilled fluids migrated across the pad and flowed off location in an easterly direction. Upon inspection and discussions with the third-party, it was determined that during the unloading process, a valve on the truck was not closed properly, which allowed fluids to escape the truck.

On behalf of CNJ Oilfield Services, Animas Environmental Services presents the enclosed *Clearance Report* for NMOCD review and final approval. Site assessment activities were conducted at the Site to address the release of produced water that was discovered on 4/4/2023. Laboratory analytical results for the soil samples indicate concentrations are compliant with the Site Closure Criteria and no further actions are required. As such, Hilcorp respectfully requests closure for Incident Number nAPP2310736718.

Enclosures: Form C-141

Clearance Report – Culpepper Martin 100S Release (dated 5/5/2023)

Hilcorp Energy Company
1111 Travis Street, Houston, Texas 77002
T 713.209.2400 F 713.289.2750

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	nAPP2310736718
District RP	
Facility ID	
Application ID	

# **Release Notification**

Responsible Party						
Responsible Party Hilcorp Energy Company			OGRID 37	2171		
Contact Nan	ne Mitch Ki	llough			Contact Te	elephone 713-757-5247
Contact ema	il mkillougl	h@hilcorp.com			Incident #	nAPP2310736718
Contact mailing address 1111 Travis Street, Houston, Texas 77002						
Location of Release Source						
Latitude 36.9686241 Longitude -108.1127167						
Site Name C	ulpepper Ma	artin 100S			Site Type	Well
Date Release	Discovered	: 4/4/2023 @ 10:0	00 (MT)		API# 30-04	15-34394
Unit Letter	Section	Township	Range		Coun	ty
I	20	32N	12W	San Juan		
Surface Owner: State Federal Tribal Private (Name: Montoya Land Company)  Nature and Volume of Release  Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)						
Crude Oi	l	Volume Release	ed (bbls)			Volume Recovered (bbls)
Non-	Water	Volume Release	ed (bbls) 54 bbls			Volume Recovered (bbls) 1 bbl
Is the concentration of dissolved chloride produced water >10,000 mg/l?			e in the	☐ Yes ⊠ No		
Condensate Volume Released (bbls)				Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units		)	Volume/Weight Recovered (provide units)			
Cause of Release On 4/4/2023 at approximately 10:00 AM (MT), Hilcorp Energy Company (Hilcorp) discovered a 54-bbl release of produced water at the Culpepper Martin 100S in San Juan County, NM. Shortly after commencing the unloading of produced water from a Hilcorp-owned storage tank, fluids began spilling from the third-party water hauling truck onto the pad. The spilled fluids migrated across the pad and flowed off location in an easterly direction before terminating approximately 300 ft from the site. Upon inspection and discussions with the third-party, it was determined that during the unloading process, a valve on the truck was not closed properly, which allowed fluids						

to escape the truck.

Received by OCD: 7/3/2023 10:32:25 AM State of New Mexico
Page 2 Oil Conservation Division

Page 3 of 59

Incident ID	nAPP2310736718
District RP	
Facility ID	
Application ID	

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?  The spill amount exceeded 25 bbls.		
19.13.29.7(A) NMAC?	The spin amount exceeded 23 bots.		
⊠ Yes □ No			
If YES, was immediate n	notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		
Yes. Mitch Killough pro	ovided a 24-hour notice via email to the NMOCD on 4/5/2023 at 9:00 am (CT).		
	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 rele	ease has been stopped.		
The impacted area ha	as been secured to protect human health and the environment.		
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.		
All free liquids and re	ecoverable materials have been removed and managed appropriately.		
If all the actions described above have <u>not</u> been undertaken, explain why:			
When the fluids were released from the water hauling truck, this event occurred outside secondary containment and flowed off pad.			
Dor 10 15 20 9 D (4) NIM	AAC the responsible party may commence remediation immediately ofter discovery of a release. If remediation		
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.			
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 public health or the environ	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have		
failed to adequately investig	gate 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: Mitch	Killough_ Title:Environmental Specialist		
Timed NameMiten	Title. Environmental Specialist		
-2	Ash John 04/17/2022		
Signature:	Mh Mf Date:04/17/2023		
email:mkillough@	@hilcorp.com         Telephone:         713-757-5247		
OCD Only			
Received by:	Date:		
-			

re of New Mexico

Incident ID	nAPP2310736718
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.

<50 (ft bgs)			
☐ Yes ⊠ No			
⊠ Yes □ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
☐ Yes ⊠ No			
⊠ 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.			
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> <li>Laboratory data including chain of custody</li> </ul>			

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.

Received by OCD: 7/3/2023 10:32:25 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page 5 of 59

Incident ID	nAPP2310736718
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: Mitch Killough	Title:Environmental Specialist		
Signature:	Date:07/03/2023		
email:mkillough@hilcorp.com	Telephone:		
OCD Only			
Received by: Shelly Wells	Date: <u>7/3/2023</u>		

Page 6 of 59

	- "8" " " " " " " " " " " " " " " " " "
Incident ID	nAPP2310736718
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 ite	ems must be included in the closure report.		
A scaled site and sampling diagram as described in 19.15.29.11	1 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			
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially aditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.		
Signature:	Date:07/03/2023		
email:mkillough@hilcorp.com	Telephone:713-757-5247		
OCD Only			
Received by: _Shelly Wells	Date: <u>7/3/2023</u>		
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.		
Closure Approved by: Nelson Velez  Printed Name: Nelson Velez	Date:09/25/2023		
Printed Name: Nelson Velez	Title: Environmental Specialist - Adv		



May 5, 2023

Craig Nelson CNJ Oilfield Services PO Box 568 Farmington, NM 87499

Email: <a href="mailto:cnelson@cnjoilfieldsvcs.com">cnelson@cnjoilfieldsvcs.com</a>

RE: CLEARANCE REPORT

Culpepper Martin 100S Release Incident # NAPP2310736718

API: 30-045-34394

NE% SE%, Section 20, T32N, R12W San Juan County, New Mexico

Dear Mr. Nelson:

A produced water release was discovered on April 4, 2023, and resulted from a valve on a CNJ Oilfield Services truck being improperly closed, which allowed produced water to spill during the unloading process. Hilcorp Energy Company (Hilcorp) estimated that as much as 54 barrels (bbls) of produced water was released and migrated across the pad and flowed off location in an easterly direction. On April 5, 2023, Hilcorp reported the release of produced water at the Culpepper Martin 100S (API: 30-045-34394) to Mr. Nelson Velez of the New Mexico Oil Conservation Division (NMOCD).

#### 1.0 Site Information

#### 1.1 Location

Site Name – Culpepper Martin 100S Legal Description – NE¼ SE¾, Section 20, T32N, R12W, San Juan County, New Mexico Release Latitude/Longitude – N36.968631, W108.112070

Land Jurisdiction – Private – Montoya Cattle Company

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Location Map

624 E Comanche St. Farmington, NM 87401 505-564-2281 animasenvironmental.com

### 2.0 Site 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:

- **Known Water Sources:** Stock ponds are located approximately 1,300 feet (ft) to the south and 1,430 ft to the west of the release site.
- Depth to Groundwater: Cathodic reports could not be located for oil and gas wells within one-half mile. Depth to water records were located for Well SJ 04315 less than 1 mile from the release location with a depth to water of 50 ft bgs. A pit permit for the Culpepper Martin 100S indicated depth to groundwater less than 50 ft bgs. Based on these records, depth to groundwater at the site was determined to be less than 50 ft bgs.
- Sensitive Receptor Determination: The release site is located less than 300 ft (approximately 190 ft south) away from a continuously flowing watercourse or other significant watercourse as defined in 19.15.29.12 NMAC, an unnamed arroyo which ultimately drains to the La Plata River.

#### NMOCD Action levels are:

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

# 3.0 Delineation Soil Sampling

On April 5, 2023, Animas Environmental Services, LLC, (AES) responded to the location for delineation sampling. A total of 16 5-point composite and 2 6-point composite soil samples were collected. Samples were field screened for volatile organic compounds (VOCs) with an organic vapor meter (OVM), and all samples returned a VOC reading of 0.0 parts per million (ppm). Samples were then submitted for laboratory analysis at Hall Environmental Analytical Laboratory (Hall) in Albuquerque, New Mexico.

Each of the composite samples were laboratory analyzed for chloride per U.S. Environmental Protection Agency (USEPA) Method 300.0, and three select composite samples were also analyzed for TPH (as GRO, DRO, and MRO) per USEPA Method 8015M/D, and for BTEX per USEPA Method 8021B. Samples were collected from approximately 6 inches below ground surface (bgs). The samples selected for TPH and

Culpepper Martin 100S Release Clearance Report May 5, 2023 Page 3 of 4

BTEX analysis were collected from the spill source area (SC-1), an area of pooling (SC-3), and the northwestern extent of the spill area (SC-12). All samples returned analytical results below laboratory detection limits and NMOCD standards.

Based on the results of delineation sampling, AES recommended that CNJ scrape 6 inches of potentially contaminated soils off the extents of the area delineated during the April 5, 2023, site visit. CNJ consulted with the property owner who indicated that he would prefer not to have the soil disturbed. AES contacted Nelson Velez on April 21, 2023, and Mr. Velez suggested that one discrete grab sample from the surface be collected at the release point, and analyzed for BTEX, TPH (as GRO, DRO, and MRO), and chlorides. Mr. Velez indicated that if these analyses returned results below NMOCD action levels, then no additional work would be necessary.

# 4.0 Confirmation Soil Sampling

On April 24, 2023, AES provided notification of confirmation sampling to NMOCD and on April 27, 2023, AES collected one discrete grab sample from the surface at the release location.

#### 3.1 Field Data

Clearance of soil samples was achieved through laboratory analysis. Field notes are attached.

#### 3.2 Laboratory Analyses

The samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All samples were laboratory analyzed for:

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

#### 3.3 Laboratory Analytical Results

All laboratory analytical results indicated benzene, total BTEX, TPH (as GRO, DRO, and MRO), and chlorides in all samples were below applicable action levels. Laboratory results are on Figure 3. The laboratory analytical report is attached.

#### 5.0 Conclusions

On April 5, 2023, AES collected delineation samples at a produced water release at the Culpepper Martin 100S. Based on delineation sampling results below laboratory detection limits, the property owner requested that site surface not be disturbed. AES returned to the site on April 27, 2023, and collected one discrete grab sample at the surface of the release site. Laboratory analytical results reported benzene, total BTEX, TPH (as GRO/DRO/MRO), and chloride concentrations as *below* applicable NMOCD action levels in all samples. No further action is recommended at this time.

If you have any questions about this report or site conditions, please do not hesitate to contact me at (505) 486-9250 or Angela Ledgerwood, Senior Project Manager, at (720) 537-6650.

Sincerely,

**Lany Cupps** 

Lany lupps

**Environmental Coordinator** 

Angela Ledgerwood

Senior Project Manager

Angla Sedgerwood

#### Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Location Map

Figure 3. Soil Sample Locations and Results

Photograph Log

Field Notes

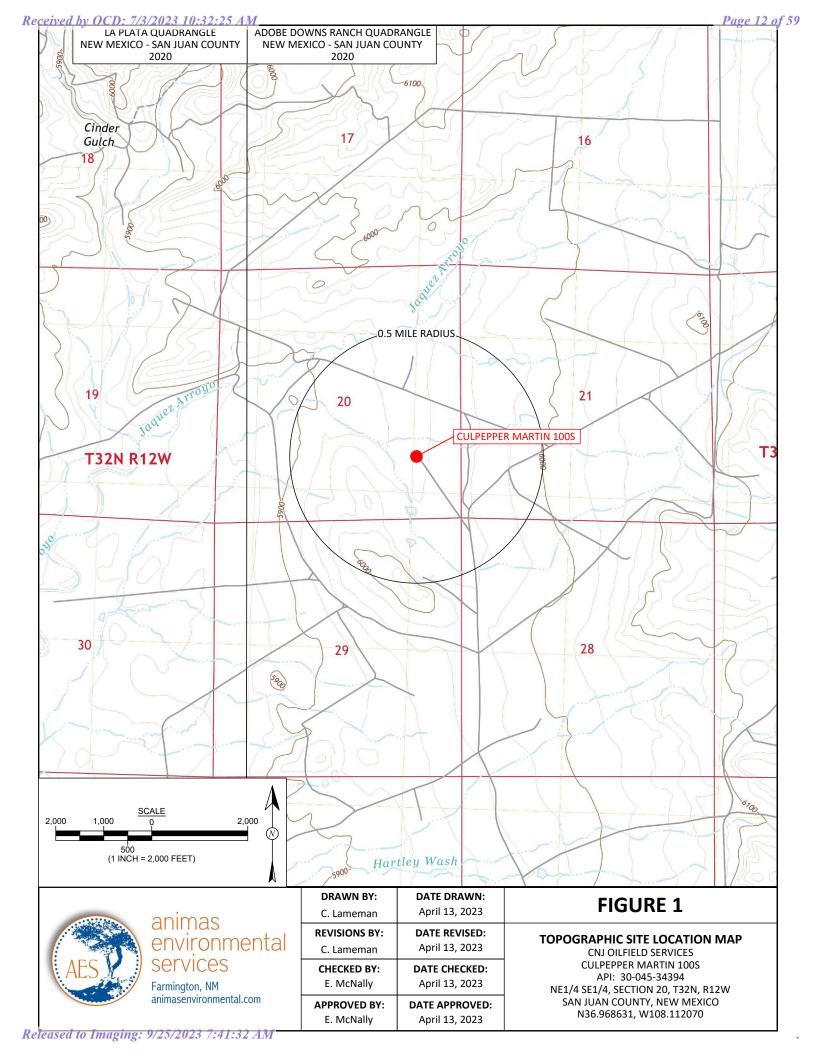
Hall Analytical Reports 2304337 and 2304C18

Notifications and Correspondence

NMOCD Site Assessment/Characterization Ranking

Shared Documents/Reports/2023.04.13 Culpepper Martin 100S Exc Clearance Report LC.docx

Attachments

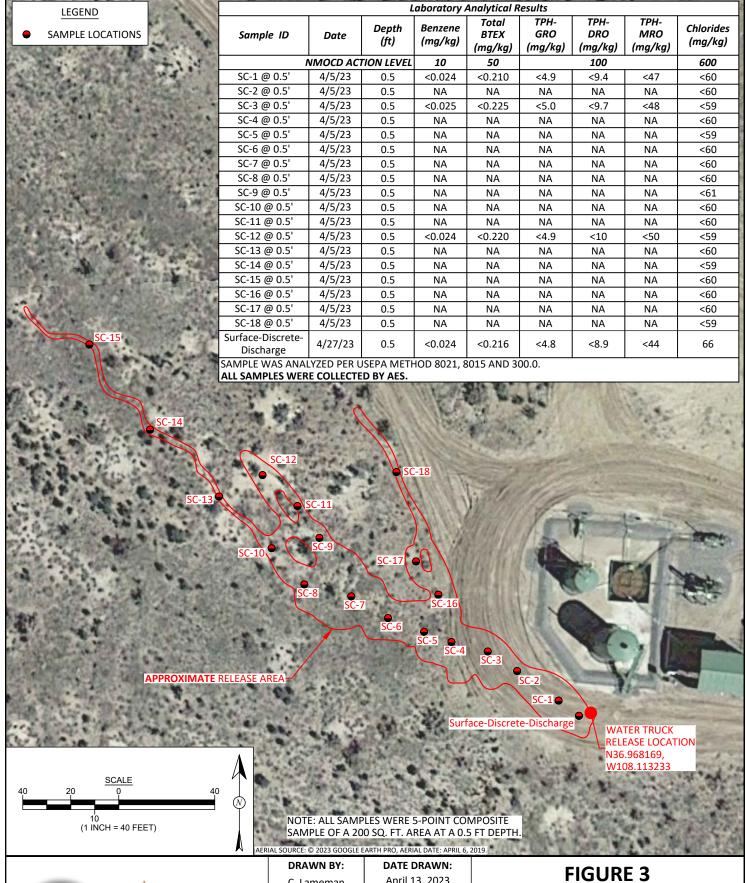




DRAWN BY:	DATE DRAWN:
C. Lameman	April 13, 2023
REVISIONS BY:	DATE REVISED:
C. Lameman	April 13, 2023
CHECKED BY:	DATE CHECKED:
L. Cupps	April 13, 2023
APPROVED BY:	DATE APPROVED:
E. McNally	April 13, 2023

#### **AERIAL SITE LOCATION MAP**

CNJ OILFIELD SERVICES
CULPEPPER MARTIN 100S
API: 30-045-34394
NE1/4 SE1/4, SECTION 20, T32N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.968631, W108.112070





DRAWN BY:	DATE DRAWN:
C. Lameman	April 13, 2023
REVISIONS BY:	DATE REVISED:
C. Lameman	May 4, 2023
CHECKED BY:	DATE CHECKED:
L. Cupps	May 4, 2023
APPROVED BY:	DATE APPROVED:
E. McNally	May 4, 2023

# AERIAL SITE MAP AND SAMPLE LOCATIONS CNJ OILFIELD SERVICES

CNJ OILFIELD SERVICES
CULPEPPER MARTIN 100S
API: 30-045-34394
NE1/4 SE1/4, SECTION 20, T32N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.968631, W108.112070

Photo 1: Culpepper Martin 100S, 04/05/2023



Photo 2: Release Location, 04/05/2023



CNJ Oilfield Services Culpepper Martin 100S Release Clearance Report May 5, 2023; Page 1

Photo 3: Area of pooling, 04/05/2023



Photo 4: Spill path, 04/05/2023



CNJ Oilfield Services Culpepper Martin 100S Release Clearance Report May 5, 2023; Page 2

Photo 5: Confirmation sampling at release location, 04/27/2023



CNJ Oilfield Services Culpepper Martin 100S Release Clearance Report May 5, 2023; Page 3

Soil	Sample	Collec	tion	Field	Form
0.		Client	/	£ T-	Touch

Site Name: Culpepper Max fin

OnSite Contact: Craig

Location: 36.9686241, -108.1127167

Land Jurisdiction:

County/State: San Than County, New Mexico

Date: 4-5-2023

AES Personnel: C. Lamemem

Site Arrival Time: /357
Site Departure Time: /750



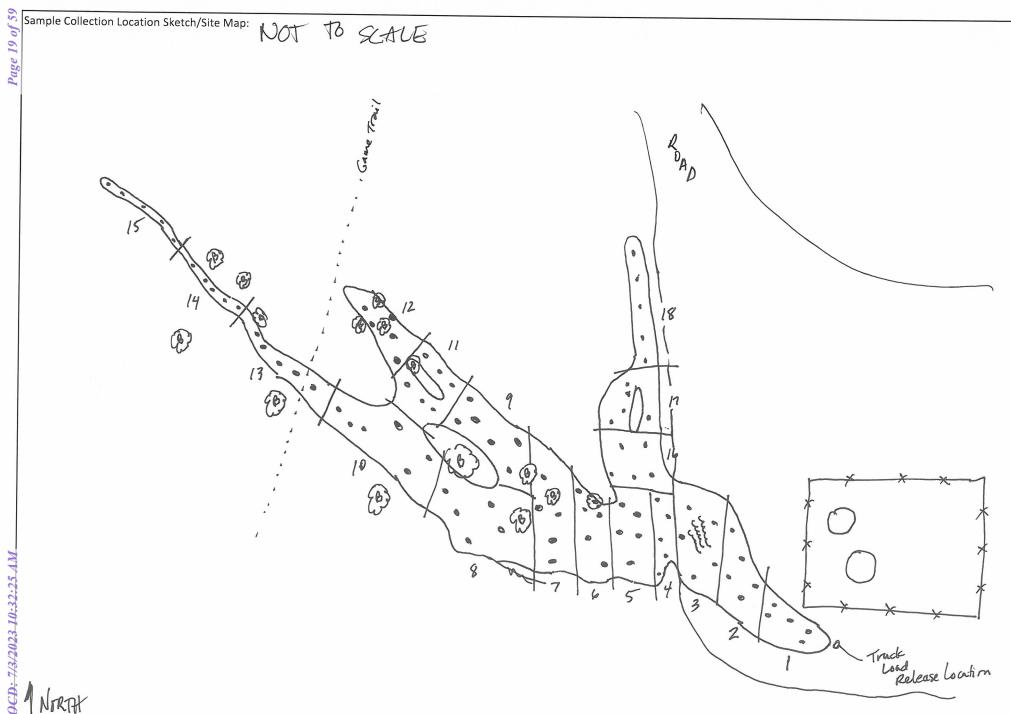
animas environmental services

Farmington, NM animasenvironmental.com

Site Notes/Details: Kelesse from a pamp truck c right. Large Surface Release of Produced Water. Pumper and Craig said the Water is not produce was condensate but just salt water.

Sample ID	Sample	Sample	Sample	Sample	Composite					
	Date	Time	Depth	Location	(Y/N)	Sample Observations (Soil Type, PID, Impacted, etc.) リケー いっと				
82-1	4-5-23	14:16	0.5	Cretere Spot (15) NWA RS	YSPT	OM = Od ppm C 14: 24 Tan-Brain, Sand al Cay, No oder, No Strings				
50-2		14:21	\	1	1	OVM=0.0114 C 14:35 Brown, Sand of Coy, NO, NS				
56-3		14:34		Large 1001" NWILX-12 Off site		OVM=0.0 ppn a 14:45 Standing It, O Avea. Brown, Sand of Clay, NU,				
SC - 4		14:59		of site		UVM-00 ppm @ 15:10 Tan-Brown, Sand, No, NS				
SC-5		15:04		See My B		OIM=0.0 ppm @15.26 S.A.A				
SC-6		15:08		See Map Pg2	1	OVM: 0.0 ppm C15:27 "SA- Tan-Brown, Soud, NO, NS, Ogamics (Rots)				
SC-7		15418				OrM=D.O ppm@15:U\$ SAA				
86-8		15:28				OVM=0.0PPm @ 1545 SAA				
50-9		15:35			6pt	OVMIDIOPPIN C/6:00 SAA bet (lost trade)				
86-10		15.40				ONN: 2-2ppme: 16:01 SAA light flost met				
56-11		15:43			1 1 1	OVM: O.Oppm C 16:07 SAA Gpt (cost track)				
56-12		15:51				OVM=0.0ppm @ 16:25 SAA.				
SC-13		15:54			1	OJM; O.GIPPM & 16:27 SAR				
Sc-14		15:59				OVM=0.0pgm e 16:28 SAA				
SC-15		16:10		1		OVM = 0.0 Ppa & S6:28 C end of Main flow SAA				
56-16		16:16		Alongrand		OVM = 0.0 Ppm @ 16:29 SAA				
56-17		16:19		Mony asad		OVM-0.0ppm @ 16:30 SAA				
SC-18	1	16:22	7	Along Roma	1	ONT O. OPPR @ 16:31 C and of small flow 590				

Released to Imaging: 9/25/2023 7:41:32 AM



NOT TO SCALE

animas Environmental Services, LLC 24 E. Comanche St., Farmington NM 87401 2el: 505-564-2281

~	
$\sim$	
6	
Company	
0	
- 22	
-	
6	
0	
ã	
~	
(may	
-	
0	
-	
3	
0.0	
Total Control	
600	
00	
9.0	
.:	
.:	
: 9/	
: 9/2	
: 9/	
: 9/2	
: 9/2	
: 9/2	
: 9/25/2	
: 9/25/20	
: 9/25/202	
: 9/25/202	
: 9/25/202	
: 9/25/2023	
: 9/25/2023 7	
: 9/25/2023 7:	
: 9/25/2023 7	
: 9/25/2023 7:4	
: 9/25/2023 7:4	
: 9/25/2023 7:41	
: 9/25/2023 7:41	
: 9/25/2023 7:41:3	
: 9/25/2023 7:41::	
: 9/25/2023 7:41:32	
: 9/25/2023 7:41:32 A	
: 9/25/2023 7:41:32	

Date: 4-27-23	animes
AES Personnel: L. CupOS & K. Pick ford	
Site Arrival Time: 11:00 an	
Site Departure Time: 11:20 am	Farmington, NM
	witimasenvironmental, com
	AES Personnel:  Site Arrival Time:  1:00  AES Personnel:

Received by OCD: 7/3/2023 10:32:25

location confirmed on-site by operator. Site Notes/Details:

Sample ID	Sample Date	Sample Time	Sample Depth	Sample Location	Composite (Y/N)	Sample Observations (Soil Type, PID, Impacted, etc.)
Surface-	4127123	11:09	0-2"	Source	N	36°58.0910, -108°6.79 Hard, tan, dayey, no odor or staining.
Discrete-						Hard tan dayey, no odor or staining.
Discharge						30
	0.					
			-			
			1	l .		Page
Animas Environmental Services 624 E. Comanche St., Farmingto						Page 20 of 59
tel: 505-564-2281	JI NIVI O/MOL					<i>9</i> 53



April 13, 2023

Lany Cupps

**Animas Environmental Services** 

624 E. Comanche

Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Culpepper Martin 100S

OrderNo.: 2304337

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

#### Dear Lany Cupps:

Hall Environmental Analysis Laboratory received 18 sample(s) on 4/7/2023 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

**Project:** 

**CLIENT:** Animas Environmental Services

Culpepper Martin 100S

### **Analytical Report**

Lab Order **2304337**Date Reported: **4/13/2023** 

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SC-1@0.5'

**Collection Date:** 4/5/2023 2:16:00 PM

**Lab ID:** 2304337-001 **Matrix:** SOIL **Received Date:** 4/7/2023 6:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	4/10/2023 11:57:37 PM	74233
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/10/2023 11:58:19 PM	74212
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/10/2023 11:58:19 PM	74212
Surr: DNOP	117	69-147	%Rec	1	4/10/2023 11:58:19 PM	74212
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/10/2023 6:52:00 PM	74206
Surr: BFB	88.1	37.7-212	%Rec	1	4/10/2023 6:52:00 PM	74206
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	4/10/2023 6:52:00 PM	74206
Toluene	ND	0.049	mg/Kg	1	4/10/2023 6:52:00 PM	74206
Ethylbenzene	ND	0.049	mg/Kg	1	4/10/2023 6:52:00 PM	74206
Xylenes, Total	ND	0.097	mg/Kg	1	4/10/2023 6:52:00 PM	74206
Surr: 4-Bromofluorobenzene	88.3	70-130	%Rec	1	4/10/2023 6:52:00 PM	74206

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 22

Lab Order 2304337

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/13/2023

**CLIENT:** Animas Environmental Services Client Sample ID: SC-2@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 2:21:00 PM 2304337-002 Lab ID: Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	4/10/2023 6:04:45 PM	74213

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 2 of 22

**CLIENT:** Animas Environmental Services

### **Analytical Report**

Lab Order 2304337

Date Reported: 4/13/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SC-3@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 2:34:00 PM 2304337-003 Matrix: SOIL Lab ID: Received Date: 4/7/2023 6:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	59	mg/Kg	20	4/11/2023 12:09:57 AM	74233
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/11/2023 12:08:57 AM	74212
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/11/2023 12:08:57 AM	74212
Surr: DNOP	119	69-147	%Rec	1	4/11/2023 12:08:57 AM	74212
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/10/2023 7:56:00 PM	74206
Surr: BFB	93.8	37.7-212	%Rec	1	4/10/2023 7:56:00 PM	74206
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	4/10/2023 7:56:00 PM	74206
Toluene	ND	0.050	mg/Kg	1	4/10/2023 7:56:00 PM	74206
Ethylbenzene	ND	0.050	mg/Kg	1	4/10/2023 7:56:00 PM	74206
Xylenes, Total	ND	0.10	mg/Kg	1	4/10/2023 7:56:00 PM	74206
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	4/10/2023 7:56:00 PM	74206

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 3 of 22

Lab Order 2304337

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/13/2023

**CLIENT:** Animas Environmental Services Client Sample ID: SC-4@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 2:59:00 PM Lab ID: 2304337-004 Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 4/10/2023 6:17:10 PM 74213

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 4 of 22

**Project:** 

**CLIENT:** Animas Environmental Services

Culpepper Martin 100S

### **Analytical Report**

Lab Order 2304337 Date Reported: 4/13/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SC-5@0.5'

Collection Date: 4/5/2023 3:04:00 PM

Lab ID: 2304337-005 Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: <b>JMT</b>
Chloride	ND	59	mg/Kg	20	4/10/2023 6:29:35 PN	74213

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 5 of 22

Lab Order 2304337

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/13/2023

**CLIENT:** Animas Environmental Services Client Sample ID: SC-6@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 3:08:00 PM Lab ID: 2304337-006 Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: JMT 20 4/10/2023 6:41:59 PM 74213 Chloride ND 60 mg/Kg

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 6 of 22

Lab Order 2304337

Date Reported: 4/13/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: SC-7@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 3:18:00 PM 2304337-007 Lab ID: Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 mg/Kg 20 4/10/2023 6:54:24 PM 74213

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 7 of 22

Lab Order 2304337

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/13/2023

CLIENT: Animas Environmental Services Client Sample ID: SC-8@0.5'

 Project:
 Culpepper Martin 100S
 Collection Date: 4/5/2023 3:28:00 PM

 Lab ID:
 2304337-008
 Matrix: SOIL
 Received Date: 4/7/2023 6:45:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 ND
 60
 mg/Kg
 20
 4/10/2023 7:06:48 PM
 74213

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 22

#### **Analytical Report** Lab Order 2304337

Date Reported: 4/13/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

**Project:** Culpepper Martin 100S

Lab ID: 2304337-009 Client Sample ID: SC-9@0.5'

Collection Date: 4/5/2023 3:35:00 PM

Received Date: 4/7/2023 6:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: <b>JMT</b>
Chloride	ND	61	mg/Kg	20	4/10/2023 7:19:12 PN	74213

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 9 of 22

#### **Analytical Report** Lab Order 2304337

Date Reported: 4/13/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: SC-10@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 3:40:00 PM

Lab ID: 2304337-010 Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	/st: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	4/11/2023 12:22:18	AM 74233

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 10 of 22

**CLIENT:** Animas Environmental Services

### **Analytical Report**

Lab Order 2304337 Date Reported: 4/13/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SC-11@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 3:43:00 PM

Lab ID: 2304337-011 Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: <b>JMT</b>
Chloride	ND	60	mg/Kg	20	4/11/2023 12:34:39 A	M 74233

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 11 of 22

**CLIENT:** Animas Environmental Services

### **Analytical Report**

Lab Order 2304337

Date Reported: 4/13/2023

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SC-12@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 3:51:00 PM

2304337-012 Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM Lab ID:

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: SNS
Chloride	ND	59	mg/Kg	20	4/11/2023 2:51:16 PM	74252
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/11/2023 12:19:33 AM	74212
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	4/11/2023 12:19:33 AM	74212
Surr: DNOP	99.6	69-147	%Rec	1	4/11/2023 12:19:33 AM	74212
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/10/2023 9:01:00 PM	74206
Surr: BFB	90.4	37.7-212	%Rec	1	4/10/2023 9:01:00 PM	74206
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	4/10/2023 9:01:00 PM	74206
Toluene	ND	0.049	mg/Kg	1	4/10/2023 9:01:00 PM	74206
Ethylbenzene	ND	0.049	mg/Kg	1	4/10/2023 9:01:00 PM	74206
Xylenes, Total	ND	0.098	mg/Kg	1	4/10/2023 9:01:00 PM	74206
Surr: 4-Bromofluorobenzene	89.5	70-130	%Rec	1	4/10/2023 9:01:00 PM	74206

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 12 of 22

**Analytical Report** Lab Order 2304337

Date Reported: 4/13/2023

20 4/11/2023 3:03:41 PM 74252

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

**Project:** Culpepper Martin 100S

Lab ID: 2304337-013

Chloride

Client Sample ID: SC-13@0.5'

mg/Kg

Collection Date: 4/5/2023 3:54:00 PM Received Date: 4/7/2023 6:45:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: SNS

60

ND

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 13 of 22

Lab Order 2304337

Date Reported: 4/13/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: SC-14@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 3:59:00 PM Lab ID: 2304337-014 Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: SNS 20 4/11/2023 3:16:06 PM 74252 Chloride ND 59 mg/Kg

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 14 of 22

Lab Order 2304337 Date Reported: 4/13/2023

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: SC-15@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 4:10:00 PM Lab ID: 2304337-015 Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride ND 60 mg/Kg 20 4/11/2023 3:28:30 PM 74252

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 15 of 22

### **Analytical Report**

Lab Order 2304337

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/13/2023

**CLIENT:** Animas Environmental Services Client Sample ID: SC-16@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 4:16:00 PM Lab ID: 2304337-016 Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride ND 60 mg/Kg 20 4/11/2023 3:40:55 PM 74252

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 16 of 22

### **Analytical Report**

Lab Order 2304337

#### Date Reported: 4/13/2023

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: SC-17@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 4:19:00 PM Lab ID: 2304337-017 Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride ND 60 mg/Kg 20 4/11/2023 3:53:19 PM 74252

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 17 of 22

### **Analytical Report**

Lab Order 2304337

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/13/2023

**CLIENT:** Animas Environmental Services Client Sample ID: SC-18@0.5'

**Project:** Culpepper Martin 100S Collection Date: 4/5/2023 4:22:00 PM Lab ID: 2304337-018 Matrix: SOIL Received Date: 4/7/2023 6:45:00 AM

**Analyses** Result **RL Oual Units DF** Date Analyzed **Batch EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride ND 59 mg/Kg 20 4/11/2023 4:05:43 PM 74252

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 18 of 22

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2304337** 

13-Apr-23

Client: Animas Environmental Services

**Project:** Culpepper Martin 100S

Sample ID: MB-74233 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74233 RunNo: 95903

Prep Date: 4/10/2023 Analysis Date: 4/10/2023 SeqNo: 3472554 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74233 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74233 RunNo: 95903

Prep Date: 4/10/2023 Analysis Date: 4/10/2023 SeqNo: 3472555 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.2 90 110

Sample ID: MB-74213 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74213 RunNo: 95905

Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472742 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74213 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74213 RunNo: 95905

Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472743 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.8 90 110

Sample ID: MB-74252 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **74252** RunNo: **95942** 

Prep Date: 4/11/2023 Analysis Date: 4/11/2023 SeqNo: 3474420 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74252 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74252 RunNo: 95942

Prep Date: 4/11/2023 Analysis Date: 4/11/2023 SeqNo: 3474421 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 98.2 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 19 of 22

### Hall Environmental Analysis Laboratory, Inc.

2304337 13-Apr-23

WO#:

**Client:** Animas Environmental Services

**Project:** Culpepper Martin 100S

Sample ID: LCS-74202 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 74202 RunNo: 95894

Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SegNo: 3472132 Units: %Rec

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

Surr: DNOP 4.5 5.000 90.2 69 147

Sample ID: MB-74202 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 74202 RunNo: 95894

Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472133 Units: %Rec

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

Surr: DNOP 8.7 10.00 87.2 69 147

Sample ID: LCS-74212 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 74212 RunNo: 95894

Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472642 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 0 101 61.9 130

Surr: DNOP 5.6 5.000 113 69 147

Sample ID: MB-74212 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 74212 RunNo: 95894

Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472644 Units: mq/Kq

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 10 10.00 102 69 147

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 20 of 22

### Hall Environmental Analysis Laboratory, Inc.

2304337 13-Apr-23

WO#:

**Client:** Animas Environmental Services

**Project:** Culpepper Martin 100S

Sample ID: 2304337-001ams

Sample ID: Ics-74206 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS Batch ID: 74206 RunNo: 95904

Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472695 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 23
 5.0
 25.00
 0
 92.2
 70
 130

 Surr: BFB
 1900
 1000
 191
 37.7
 212

Sample ID: mb-74206 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 74206 RunNo: 95904

Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472696 Units: mg/Kg

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

TestCode: EPA Method 8015D: Gasoline Range

 Gasoline Range Organics (GRO)
 ND
 5.0

 Surr: BFB
 890
 1000
 88.9

SampType: MS

890 1000 88.9 37.7 212

Client ID: SC-1@0.5' Batch ID: 74206 RunNo: 95904

Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472698 Units: mg/Kg

Result SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte POI %REC LowLimit Qual Gasoline Range Organics (GRO) 22 4.8 24.25 0 90.6 70 130 Surr: BFB 1900 969.9 197 37.7 212

Sample ID: 2304337-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SC-1@0.5' Batch ID: 74206 RunNo: 95904

Prep Date: 4/7/2023 Analysis Date: 4/10/2023 SeqNo: 3472699 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 21 4.9 24.41 87.6 70 130 2.69 20 Surr: BFB 1900 976.6 194 37.7 212 0 0

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 21 of 22

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2304337** 

13-Apr-23

**Client:** Animas Environmental Services

**Project:** Culpepper Martin 100S

Sample ID: Ics-74206 Client ID: LCSS	·	Type: <b>LC</b>			tCode: El		8021B: Vola	iles		
Prep Date: 4/7/2023	Analysis D	Date: 4/	10/2023	S	SeqNo: 3	472712	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.7	80	120			
Toluene	0.89	0.050	1.000	0	88.7	80	120			
Ethylbenzene	0.86	0.050	1.000	0	86.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.6	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.1	70	130			

Sample ID: <b>mb-74206</b>	Samp1	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	h ID: <b>74</b>	206	F	RunNo: 9	5904				
Prep Date: 4/7/2023	Analysis D	Date: 4/	10/2023	9	SeqNo: 3	472713	Units: mg/k	(g		
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	0.88		1.000		88.3	70	130			

Sample ID: 2304337-003ams	SampT	Гуре: МS	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: SC-3@0.5'	Batc	h ID: <b>74</b> 2	206	F	RunNo: 9	5904				
Prep Date: 4/7/2023	Analysis D	Date: 4/	10/2023	S	SeqNo: 3	472716	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	0.9940	0	88.0	68.8	120			
Toluene	0.89	0.050	0.9940	0	89.3	73.6	124			
Ethylbenzene	0.88	0.050	0.9940	0	88.7	72.7	129			
Xylenes, Total	2.6	0.099	2.982	0	87.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.90		0.9940		90.6	70	130			

Sample ID: 2304337-003amsd	I SampT	ype: <b>MS</b>	SD.	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: SC-3@0.5'	Batch	n ID: <b>74</b> 2	206	F	RunNo: 9	5904				
Prep Date: 4/7/2023	Analysis D	ate: 4/	10/2023	8	SeqNo: 3	472717	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	0.9980	0	85.3	68.8	120	2.72	20	
Toluene	0.85	0.050	0.9980	0	85.5	73.6	124	3.93	20	
Ethylbenzene	0.84	0.050	0.9980	0	84.0	72.7	129	5.10	20	
Xylenes, Total	2.5	0.10	2.994	0	82.9	75.7	126	5.27	20	
Surr: 4-Bromofluorobenzene	0.91		0.9980		90.8	70	130	0	0	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 22



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

Released to Imaging: 9/25/2023 7:41:32 AM

			Website: www.h	anenvironme	emai.com		
	imas Environmental rvices	Work	Order Numbe	r: 2304337		RcptNo	p: 1
Received By: Ti	racy Casarrubias	4/7/202	3 6:45:00 AM				
Completed By: Ti	acy Casarrubias	4/7/202	3 7:15:08 AM				
Reviewed By: る	2 4/4/23						
Chain of Custoo	<u>ly</u>						
1. Is Chain of Custo	dy complete?			Yes 🗹	No 🗌	Not Present	
2. How was the sam	ple delivered?			Courier			
<u>Log In</u> 3. Was an attempt n	nade to cool the sam	ples?		Yes 🗹	No 🗆	na 🗆	
4. Were all samples	received at a temper	ature of >0° C	to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in prop	er container(s)?			Yes 🗹	No 🗆		
6. Sufficient sample	volume for indicated	test(s)?		Yes 🗹	No 🗌		
7. Are samples (exce	ept VOA and ONG) p	roperly preserve	ed?	Yes 🗹	No 🗌		
8. Was preservative	added to bottles?			Yes 🗌	No 🗹	NA 🗆	
9. Received at least	1 vial with headspace	e <1/4" for AQ \	OA?	Yes 🗌	No 🗌	NA 🗹	
0. Were any sample	containers received	broken?		Yes	No 🗹	# of preserved	
11.Does paperwork n (Note discrepancie	natch bottle labels? es on chain of custod	y)		Yes 🗹	No 🗌	bottles checked for pH:	or >12 unless noted)
2. Are matrices corre	ectly identified on Cha	in of Custody?		Yes 🗹	No 🗌	Adjusted?	
3. Is it clear what and	alyses were requeste	d?		Yes 🗹	No 🗌		4 - 1 - 1
4. Were all holding ti (If no, notify custo	mes able to be met? mer for authorization.	)		Yes 🗹	No 🗌	Checked by:	JN4/7/23
Special Handling	(if applicable)						
15. Was client notifie	d of all discrepancies	with this order	>	Yes 🗌	No 🗆	NA 🗹	
Person Not	ified:		Date:				
By Whom:	J		Via:	eMail [	Phone Fax	☐ In Person	
Regarding:	Jan San San San San San San San San San S						
Client Instru	,						
16. Additional remar							
17. Cooler Informat			10 111	A 15:		1	
Cooler No 1	Temp °C Condition  Good	Seal Intact Yes	Seal No Yogi	Seal Date	Signed By	ermely section (	
	□ 1 ¬(V)(1	ITES	ET CYCH - E		0.2	1	

	7-3-17/700		Record ental Services	Turn-Around						HALL EN	IVI	RON	IME	:NI	age 4	15 of 59
Client:	Animas	Environin	ental Services	☐ Standard Project Name		3-Day			W.	ANALYS	IS I	_AB	OR/	ATC	)R	Y
				i roject riamo	•					www.hallen						
Mailing Add	dress: 62	24 E. Com	nanche St.		Culpepper Ma	artin 100S		490	01 H	awkins NE - Al	buque	rque, N	IM 87	109		
		Farmingt	on NM, 87401	Project #:								05-345			1 1	
Phone #: 5	05.564.2	281	W						*	Analys	sis Re	quest		, ` <sup>2</sup> ,		
email or Fa	x#: lcup	ps@anim	asenvironmental.com	Project Mana	•			2					1	- 1		11
QA/QC Pack X Standar	•		☐ Level 4 (Full Validation)		Lany Cupps			) - 8015								
Accreditation			mpliance	Sampler:	CL			욅			1					
□ NELAC		□ Other	•	On Ice:	¥ Yes	□ No yogi		(GRO/DRO/MRO)	300.0		1 1					
□ EDD (T	ype)		T	# of Coolers:			8021	, P	-30							
				Cooler Lemb	(including CF). Z.	-Ø = Z.4°		GRC	des							
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 7304337	ВТЕХ	TPH (	Chlorides							
4/5/2023	14:16	Soil	SC-1 @ 0.5'	1 -4 oz jar	1 - Cool	001			Х							
4/5/2023	14:21	Soil	SC-2 @ 0.5'	1 -4 oz jar	1 - Cool	002			x							
4/5/2023	14:34	Soil	SC-3 @ 0.5'	1 -4 oz jar	1 - Cool	003	х	Х	Х							
4/5/2023	14:59	Soil	SC-4 @ 0.5'	1 -4 oz jar	1 - Cool	004			X_						$\perp$	$\dashv$
4/5/2023	15:04	Soil	SC-5 @ 0.5'	1 -4 oz jar	1 - Cool	005		_	x		$\perp$				_	$\perp \!\!\! \perp \!\!\! \mid$
4/5/2023	15:08	Soil	SC-6 @ 0.5'	1 -4 oz jar	1 - Cool	006			X_		$\perp$		_	<del>-  </del>	_ _	_ _
4/5/2023	15:18	Soil	SC-7 @ 0.5'	1 -4 oz jar	1 - Cool	007	_		X_				<u> </u>		_	
4/5/2023	15:28	Soil	SC-8 @ 0.5'	1 -4 oz jar	1 - Cool	CO30	_		X_		$\perp$					
4/5/2023	15:35	Soil	SC-9 @ 0.5'	1 -4 oz jar	1 - Cool	009	$\perp$	ļ	X				_	$\vdash \vdash$	_	_
4/5/2023	15:40	Soil	SC-10 @ 0.5'	1 -4 oz jar	1 - Cool	010		<u> </u>	x					-	_	_
4/5/2023	15:43	Soil	SC-11 @ 0.5'	1 -4 oz jar	1 - Cool	011			X_			-		$\vdash$	+	_
4/5/2023	15:51	Soil	SC-12 @ 0.5'	1 -4 oz jar	1 - Cool	012	X	X	X_					<del>     </del>	_	_
4/5/2023	15:54	Soil	SC-13 @ 0.5'	1 -4 oz jar	1 - Cool	Date Time	 		X							
Date:	Time:	Relinguish	in h	Received by:	Via:	4/6/23 1314		marl	(S:							
Date: 4/4/23	Time: 1820	Relinquist	M Wat	Received by:	Via: Court	4/7/23		. <u>.</u>				ly notated			09/	,

Received by	och: 7	3/2023 18	tôd√Record	Turn-Around	Time:					н	ALL	E	IVI	R	NC	ME	$\mathbf{N}^{\underline{P}_0}$	age 4	46 of 59 -
Client:	Animas	Environm	ental Services	□ Standard		h3-Day		BUZ		AI	VAL	YS	IS	LA	ВС	R/	ATC	DR	Y
				Project Name	:					١	ww.ł	allen	viron	men	tal.co	m			
Mailing Add	dress: 62	24 E. Com	nanche St.		Culpepper M	Martin 100S		490	)1 H	awki	ns NE	- A	lbuqu	erqu	e, NN	И 871	109		
		Farmingt	on NM, 87401	Project #:				Te		_	5-397		Fax			4107	1000		
Phone #: 5	05.564.2	281					1	ii .			:: · A	naly	sis R	eque	est	. 1			
email or Fa	ax#: lcup	ps@anim	asenvironmental.com	Project Mana	ger:			ار											
QA/QC Pac	-				Lany Cupps			8015											
X Standar	rd		☐ Level 4 (Full Validation)				-	' '											
Accreditation		☐ Az Co	·	Sampler:	CL			₹ K											
□ NELAC	***	□ Other		On Ice:	Yes .	□ No You	_	8	300.0										
□ EDD (T	ype) 			# of Coolers:	1	1 4- 24 6	8021	TPH (GRO/DRO/MRO)	- 1										
				Container	Preservative	1-8=24°		9	Chlorides										
Date	Time	Matrix	Sample Name	Type and #	Туре	230433-	ВТЕХ	直	Chlc					_					
4/5/2023	15:59	Soil	SC-14 @ 0.5'	1 -4 oz jar	1 - Cool	014			X										$\perp$
4/5/2023	16:10	Soil	SC-15 @ 0.5'	1 -4 oz jar	1 - Cool	015			X		$\perp$			_			_	$\perp$	
4/5/2023	16:16	Soil	SC-16 @ 0.5'	1 -4 oz jar	1 - Cool	016			X		$\perp$						$\dashv$		
4/5/2023	16:19	Soil	SC-17 @ 0.5'	1 -4 oz jar	1 - Cool	017			<u>X</u>							_	_	$\perp$	$\perp$
4/5/2023	16:22	Soil	SC-18 @ 0.5'	1 -4 oz jar	1 - Cool	013	1_		<u>x</u> _		_	_	-	_			$\dashv$	_	
							-		_			_	+		$\square$		+	_	$\dashv$
	-									$\vdash$		+	-	$\vdash$	$\vdash$		+	+	
		1		<u> </u>						H				$\vdash$	-	$\vdash$	+		$\dashv$
							-		_			+	+	-			-	$\dashv$	+
							+		-				+				$\top$	$\dashv$	$\dashv \dashv$
						<del> </del>						$\top$	+		$\vdash$		$\dashv$		
Date:	Time:	Relinquish	ned by:	Received by:	Via:	Date Time	Rer	nark	s:	<del>1</del>					·	·			
4/6/23	1314		milm	Received by:	Via: cour	9/4/23 13/4 Date Time													
Date: 4/4/23	Time:	Relinquish	Must Mark	Received by:	via. Cuck	4/7/23 6:45												P	92



Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Hall Environmental Analysis Laboratory

4901 Hawkins NE

May 03, 2023

Lany Cupps
Animas Environmental Services
624 E. Comanche
Farmington, NM 87401
TEL: (505) 564 2281

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Culpepper Martin 100S OrderNo.: 2304C18

#### Dear Lany Cupps:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/28/2023 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report** Lab Order 2304C18

Date Reported: 5/3/2023

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: Surface-Discrete-Discharge **Project:** Culpepper Martin 100S Collection Date: 4/27/2023 11:09:00 AM 2304C18-001 Lab ID: Matrix: SOIL Received Date: 4/28/2023 7:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SNS
Chloride	66	60	mg/Kg	20	5/2/2023 5:33:25 PM	74697
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: DGH
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	5/2/2023 3:00:18 AM	74658
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	5/2/2023 3:00:18 AM	74658
Surr: DNOP	76.0	69-147	%Rec	1	5/2/2023 3:00:18 AM	74658
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/1/2023 9:48:43 PM	74644
Surr: BFB	61.0	37.7-212	%Rec	1	5/1/2023 9:48:43 PM	74644
EPA METHOD 8021B: VOLATILES					Analyst	:: JJP
Benzene	ND	0.024	mg/Kg	1	5/1/2023 9:48:43 PM	74644
Toluene	ND	0.048	mg/Kg	1	5/1/2023 9:48:43 PM	74644
Ethylbenzene	ND	0.048	mg/Kg	1	5/1/2023 9:48:43 PM	74644
Xylenes, Total	ND	0.096	mg/Kg	1	5/1/2023 9:48:43 PM	74644
Surr: 4-Bromofluorobenzene	87.4	70-130	%Rec	1	5/1/2023 9:48:43 PM	74644

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Limit

Page 1 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2304C18** *03-May-23* 

Client: Animas Environmental Services

**Project:** Culpepper Martin 100S

Sample ID: MB-74697 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74697 RunNo: 96480

Prep Date: 5/2/2023 Analysis Date: 5/2/2023 SeqNo: 3495973 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74697 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: **LCSS** Batch ID: **74697** RunNo: **96480** 

Prep Date: 5/2/2023 Analysis Date: 5/2/2023 SeqNo: 3495974 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.5 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 5

### Hall Environmental Analysis Laboratory, Inc.

2304C18 03-May-23

WO#:

**Client:** Animas Environmental Services

**Project:** Culpepper Martin 100S

Sample ID: LCS-74658 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 74658 RunNo: 96420 Prep Date: 5/1/2023 Analysis Date: 5/1/2023 SeqNo: 3492767 Units: mq/Kq SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual

 Diesel Range Organics (DRO)
 40
 10
 50.00
 0
 79.7
 61.9
 130

 Surr: DNOP
 4.0
 5.000
 79.1
 69
 147

Sample ID: MB-74658 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 74658 RunNo: 96420

Prep Date: 5/1/2023 Analysis Date: 5/1/2023 SeqNo: 3492768 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 8.4 10.00 83.9 69 147

Sample ID: LCS-74700 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 74700 RunNo: 96460

Prep Date: 5/2/2023 Analysis Date: 5/2/2023 SeqNo: 3494835 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 4.1 5.000 81.2 69 147

Sample ID: MB-74700 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 74700 RunNo: 96460

Prep Date: 5/2/2023 Analysis Date: 5/2/2023 SeqNo: 3494839 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP 7.5 10.00 75.1 69 147

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2304C18** 

03-May-23

**Client:** Animas Environmental Services

**Project:** Culpepper Martin 100S

Sample ID: Ics-74644 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 74644 RunNo: 96418

Prep Date: 4/28/2023 Analysis Date: 5/1/2023 SeqNo: 3493108 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 0 Gasoline Range Organics (GRO) 21 5.0 25.00 84.7 70 130 Surr: BFB 4700 1000 475 37.7 212 S

Sample ID: mb-74644 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 74644 RunNo: 96418

Prep Date: 4/28/2023 Analysis Date: 5/1/2023 SeqNo: 3493109 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 760 1000 75.8 37.7 212

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2304C18** 

03-May-23

**Client:** Animas Environmental Services

**Project:** Culpepper Martin 100S

Sample ID: LCS-74644	Samp1	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: <b>74</b> 0	644	F	RunNo: 9	6418				
Prep Date: 4/28/2023	Analysis D	Date: <b>5/</b>	1/2023	S	SeqNo: 3	493111	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.89	0.050	1.000	0	88.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.1	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.4	70	130			

Sample ID: mb-74644	Sampl	Гуре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	h ID: <b>74</b>	644	F	RunNo: 9	6418				
Prep Date: 4/28/2023	Analysis D	Date: <b>5/</b>	1/2023	S	SeqNo: 3	493112	Units: mg/K	(g		
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		91.4	70	130			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

				Website: www.i	hallenvire	onment	al.com				
	nimas Envi ervices	ronmental	Work	Order Numbe	er: 2304	C18			RcptNo	: 1	
eceived By: T	racy Casa	rrubias	4/28/20	23 7:00:00 AI	М						
Completed By: T	racy Casa	rrubias	4/28/20	23 7:35:37 AI	M						
Reviewed By:	JL 4-	·28-z3									
hain of Custoc	dy										
. Is Chain of Custo		te?			Yes	<b>✓</b>	No		Not Present		
. How was the san	nple delive	red?			Couri	<u>er</u>					
<u>Log In</u> 3. Was an attempt r	made to co	ool the sample	es?		Yes	V	No		na 🗌		
						_	<b>.</b> . 1		(~~)		
l. Were all samples	received a	it a temperati	ure of >0° C	to 6.0°C	Yes	<b>V</b>	No		NA 🗌		
Sample(s) in prop	per contain	er(s)?			Yes	V	No				
Sufficient sample	volume for	r indicated te	st(s)?		Yes	<b>✓</b>	No [				
Are samples (exc	ept VOA ar	nd ONG) pro	perly preserve	ed?	Yes	<b>✓</b>	No [				
. Was preservative	added to b	oottles?			Yes		No [	<b>✓</b>	na 🗆		
. Received at least	1 vial with	headspace <	<1/4" for AQ \	OA?	Yes		No [	J	NA 🗹		
). Were any sample	e container:	s received br	oken?		Yes		No (	V	# of preserved		
1. Does paperwork r (Note discrepanci					Yes	<b>V</b>	No [		bottles checked for pH:	r >12 unless no	oted)
Are matrices corre					Yes	<b>✓</b>	No [		Adjusted?		
, Is it clear what an					Yes	<b>✓</b>	No [			. 1	100
. Were all holding to (If no, notify custo					Yes	<b>✓</b>	No [		Checked by:	Jny	20/
pecial Handling	ı (if appl	icable)									
5. Was client notifie	ed of all disc	crepancies w	vith this order?	>	Yes		No		NA 🗹		
Person Not	tified:			Date:				manuter*			
By Whom:	Γ			Via:	☐ еМа	il 🗀	Phone [	Fax	☐ In Person		
Regarding:						•		-	THE STATE OF THE S		
Client Instru	uctions:										
6. Additional remark	ks:										
		Condition	Seal Intact	Seal No	Seal Da	to I	Signed B	. I			
<ol> <li>Cooler Informat</li> <li>Cooler No</li> </ol>	Temp ºC			Ocai NO	Sear Da	iC .	Signed B	y			

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes	Yogi		

Received by	y OCD: 7	/3/2023 10 OT-CU	9:32:25 AM stody Record	Turn-Around	d Time:				_									Page	e 54 oj
Client:			mental Services	☐ Standard		h3-Day					NA	LY	SIS	S L	AB	OF			
Mailing A	ddress: F	P.O. Box 8	3	1	Culpepper N	Martin 100S		40	)O1 L	المعاد			enviro				7406		
Farmington NM, 87499			Project #:			$\dashv$	4901 Hawkins NE - Albuquerque, NM 87109  Tel. 505-345-3975 Fax 505-345-4107												
Phone #:	505.564.	2281		1			100		01. 0	00-0	THE OWNER OF	TAX DESCRIPTION	lysis	119		)-4 T		0.1	7.61
email or F	ax#: lcup	ops@anin	nasenvironmental.com	Project Man	ager:									T					
QA/QC Pa	•		☐ Level 4 (Full Validation)	Lany Cupps			- 8015												
Accredita		☐ Az Co ☐ Othe	ompliance r	Sampler: On ice:	Lany Cupps	/Kate Pickford  □ No		MRO)	0										ļ
□ EDD (	Type)	7		# of Coolers			<u> </u>	N N	- 300.0										
				Cooler Temp	O(Including CF): 3	.9-0 = 3.90	- 8021	80	es -										
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 23046 18	BTEX-	TPH (GRO/DRO/MRO)	Chlorides										
4/27/23	3 11:09	Soil	Surface-Discrete-Discharge	2-4 oz jar	1 - Cool	001	Х	Х	Х			+	$\top$	1	1				$\top$
							7						$\top$	$\top$					$\neg$
													1		1				$\top$
											寸	1						$\neg$	_
												$\top$	-	+					
				"											1				
														1	1		$\Box$		
															1				$\top$
												$\top$		1				$\neg$	
												十	$\top$	†					
					1						1	$\top$		$\top$				$\neg$	_
Date:	Time:	Relinquish	y Cup D	Received by:	Via: Caun	-> 7.00		narks	3:					1			L		
10/1/01/	100	1/1/1/	A Want			4/24/23													

#### Mitch Killough

From: Mitch Killough

Sent: Wednesday, April 5, 2023 10:00 AM

To: Velez, Nelson, EMNRD

Cc: OCD.Enviro@state.nm.us; Matt Henderson

Subject: RE: Hilcorp Energy Company - 24-Hour Release Notification - Culpepper Martin

100S

Tracking: Recipient Delivery Read

Velez, Nelson, EMNRD
OCD.Enviro@state.nm.us

Matt Henderson Delivered: 4/5/2023 10:00 AM Read: 4/5/2023 10:01 AM

#### Hi Nelson.

On 4/4/2023 at approximately 10:00 AM (MT), Hilcorp Energy Company (Hilcorp) discovered a 54-bbl release of produced water at the Culpepper Martin 100S (API: 30-045-34394) in San Juan County, NM (36.968631, - 108.112070). Shortly after commencing the unloading of produced water from a Hilcorp-owned storage tank, fluids began spilling from the third-party water hauling truck onto the pad. The spilled fluids migrated across the pad and flowed off location in an easterly direction before terminating approximately 300 ft from the site. Upon inspection and discussions with the third-party, it was determined that during the unloading process, a valve on the truck was not closed properly, which allowed fluids to escape the truck. Only 1 bbl of spilled fluid could be recovered following the release. At this time, Hilcorp is in discussions with the third-party regarding spill cleanup expectations. The site is located on private surface owned by Montoya Cattle Company.

An initial C-141 will be submitted by Hilcorp to the NMOCD no later than 4/19/2023.

Please contact me if you have any questions. Thanks.

### Mitch Killough

Environmental Specialist Hilcorp Energy Company 1111 Travis Street Houston, TX 77002 713-757-5247 (office) 281-851-2338 (cell) mkillough@hilcorp.com

#### **Lany Cupps**

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

**Sent:** Monday, April 24, 2023 2:45 PM

To: Lany Cupps

**Cc:** Craig Nelson; Angela Ledgerwood; Smith, Cory, EMNRD

Subject: Re: [EXTERNAL] Sampling Notification - Culpepper Martin 100S Produced Water Release

#### Howdy Lany,

Thank you for the notice. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the sample not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Please reference incident # NAPP2310736718 for all future correspondence related to this matter. Thanks again.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Lany Cupps <lcupps@animasenvironmental.com>

Sent: Monday, April 24, 2023 2:29 PM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Cc: Craig Nelson <cnelson@cnjoilfieldsvcs.com>; Angela Ledgerwood <aledgerwood@animasenvironmental.com>

Subject: [EXTERNAL] Sampling Notification - Culpepper Martin 100S Produced Water Release

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon Nelson,

AES is planning to perform sampling at the Culpepper Martin 100S (API: 30-045-34394) produced water release location on Thursday, April 27, 2023.

Per your conversation with my colleague Angela on 4/21/23, one discrete grab sample from the surface at the release point will be collected and analyzed for BTEX per 8021, TPH GRO/DRO/MRO per 8015, and chlorides per 300.0.

Please reach out with any questions or concerns.

Thank you,

Lany Cupps
Environmental Coordinator
Animas Environmental Services, LLC
www.animasenvironmental.com
505.486.9250 mobile



#### NMOCD Site Assessment/Characterization, Remediation & Closure

Site Name:	Culpepper Martin 100S
API or Facility#:	30-045-34394
Lat/Long:	N36.9686241 W108.1127167
TRS:	I-20-32N-12W
Land Jurisdiction:	Private
County:	San Juan
Determination made by:	David Reese
Date:	4/11/2023

those water sources used by less than five households for domestic or stock purposes. (NMAC 19.15.29.11A.3)  Water Source Type (well/spring/stock pond) ID (if available) Latitude Longitude Distance  Stock pond 36.96478 -108.11346 1,300' to 5		-11							
water sources. Water sources are wells, springs or other sources of fresh water extraction. Private and domestic water sources are those water sources used by less than five households for domestic or stock purposes. (NMAC 19.15.29.11A.3)  Water Source Type (well/spring/stock pond) ID (if available) Latitude Longitude Distance  Stock pond 36.96478 -108.11346 1,300' to 9  Stock pond 36.96977 -108.11773 1,430' to 9  Distance to Nearest Significant Watercourse (NMAC 19.15.29.11A.4)  an unnamed blue-line wash is 190 feet to the North, ultimately drains to the La Plata River  Depth to Groundwater Determination (NMAC 19.15.29.11A.2)  Pit permit Culpepper Martin 100S, DTW <50'; Well SJ 04315 < 1 mile away, DTW = 50 feet	Wellhead Protection Area Assessment:								
Stock pond	water sources. Water sources are wells, springs or other sources of fresh water extraction. Private and domestic water sources are								
Stock pond  36.96977 -108.11773 1,430' to V  Distance to Nearest Significant Watercourse (NMAC 19.15.29.11A.4)  an unnamed blue-line wash is 190 feet to the North, ultimately drains to the La Plata River  Depth to Groundwater Determination (NMAC 19.15.29.11A.2)  Pit permit Culpepper Martin 100S, DTW <50'; Well SJ 04315 < 1 mile away, DTW = 50 feet	Water Source Type (well/spring/stock pond)	ID (if available)	Latitude	Longitude	Distance				
Distance to Nearest Significant Watercourse (NMAC 19.15.29.11A.4)  an unnamed blue-line wash is 190 feet to the North, ultimately drains to the La Plata River  Depth to Groundwater Determination (NMAC 19.15.29.11A.2)  Pit permit Culpepper Martin 100S, DTW <50'; Well SJ 04315 < 1 mile away, DTW = 50 feet	Stock pond		36.96478	-108.11346	1,300' to S				
an unnamed blue-line wash is 190 feet to the North, ultimately drains to the La Plata River  Depth to Groundwater Determination (NMAC 19.15.29.11A.2)  Pit permit Culpepper Martin 100S, DTW <50'; Well SJ 04315 < 1 mile away, DTW = 50 feet	Stock pond		36.96977	-108.11773	1,430' to W				
an unnamed blue-line wash is 190 feet to the North, ultimately drains to the La Plata River  Depth to Groundwater Determination (NMAC 19.15.29.11A.2)  Pit permit Culpepper Martin 100S, DTW <50'; Well SJ 04315 < 1 mile away, DTW = 50 feet									
an unnamed blue-line wash is 190 feet to the North, ultimately drains to the La Plata River  Depth to Groundwater Determination (NMAC 19.15.29.11A.2)  Pit permit Culpepper Martin 100S, DTW <50'; Well SJ 04315 < 1 mile away, DTW = 50 feet									
an unnamed blue-line wash is 190 feet to the North, ultimately drains to the La Plata River  Depth to Groundwater Determination (NMAC 19.15.29.11A.2)  Pit permit Culpepper Martin 100S, DTW <50'; Well SJ 04315 < 1 mile away, DTW = 50 feet									
Depth to Groundwater Determination (NMAC 19.15.29.11A.2)  Pit permit Culpepper Martin 100S, DTW <50'; Well SJ 04315 < 1 mile away, DTW = 50 feet	Distance to Nearest S	Significant Waterco	urse (NMAC 19.15.2	29.11A.4)					
Pit permit Culpepper Martin 100S, DTW <50'; Well SJ 04315 < 1 mile away, DTW = 50 feet	an unnamed blue-line wash is 190 feet to the N	North, ultimately dra	ains to the La Plata	River					
Water well away, DTW = 50 feet	Depth to Groundy	vater Determinatio	n (NMAC 19.15.29.:	11A.2)					
Elevation Differential									
Water Wells no registered wells within 1/2 mile	Water Wells	ells no registered wells within 1/2 mile							
Cathodic Report Nearby Wells	Cathodic Report Nearby Wells								
Sensitive Receptor Determination									

Sensitive Receptor Determination		
*"If a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to ground water in Table I of 19.15.29.12 NMAC" (NMAC 19.15.29.12.C.4)	Yes	No
<300' of any continuously flowing watercourse or any other significant watercourse	7	
<200' of any lakebed, sinkhole or playa lake (measured from the Ordinary High Water Mark)		4
<300' of an occupied permanent residence, school, hospital, institution or church		<b>√</b>
<500' of a spring or private/domestic water well used by <5 households for domestic or stock watering		<b>4</b>
purposes	_	
<1000' of any water well or spring		<b>✓</b>
within incorporated municipal boundaries or within a defined municipal fresh water well field		1
<300' of a wetland		7
within the area overlying a subsurface mine		<b>4</b>
within an unstable area		1
within a 100-year floodplain		<b>V</b>
		4

#### Explain any 'Yes' Marks:

an unnamed blue-line wash (a legal "significant watercourse") is 190 feet to the North

Actual Depth to Groundwater is:  *Treat Depth to Groundwater	≤50 <b>/</b> er as if it is ≤ 50 ft?	<b>50-100</b> □ Yes ☑ No □	>100 🗆
	≤50	50-100	>100
Release Action Levels are Benzene	10	10	10
BTEX (mg/kg)	50	50	50
8015 TPH (GRO/DRO) (mg/kg)	Not Applicable	1,000	1,000
8015 TPH (GRO/DRO/MRO) (mg/kg)	100	2,500	2,500
Chlorides (mg/kg)	600	10,000	20,000

NMAC 19.15.29.12 Table I. Release Action Levels are determined by the depth below bottom of pit to groundwater.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 235472

#### **CONDITIONS**

	CODID
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	235472
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
nvelez	None	9/25/2023