Incident Number: nKMW0800954755, nKMW080054324, nMLB0608954436



Assessment and Closure Closure

Sawbuck Water Transfer

Section 23, Township 20 South, Range 24 East

County: Eddy

Vertex File Number: 22E-00123-03

Prepared for:

EOG Resources, Inc.

Prepared by:

Vertex Resource Services Inc.

Date:

July 2023

Assessment and Closure July 2023

Assessment and Closure
Sawbuck Water Transfer
Section 23, Township 20 South, Range 24 East
County: Eddy

Prepared for:

EOG Resources, Inc.

104 S. 4th Street

Artesia, New Mexico 88210

New Mexico Oil Conservation Division - District 2

811 S. 1st Street

Artesia, New Mexico 88210

Prepared by:

Vertex Resource Services Inc.

3101 Boyd Drive

Carlsbad, New Mexico 88220

Chance Dixon, B.Sc.

PROJECT MANAGER, REPORTING

Chance Dixon

7/19/2023

Date

Assessment and Closure July 2023

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Assessment and Closure July 2023

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Vertex Figure

Vertex Table

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Appendix B. Closure Criteria Research Documentation

Appendix C. Daily Field and Sampling Report(s)

Appendix D. Notification(s)

Appendix E. Laboratory Data Report(s) and Chain of Custody Form(s)

Assessment and Closure July 2023

1.0 Introduction

EOG Resources, Inc. (EOG) retained Vertex Resource Services, Inc. (Vertex) to conduct an assessment for three historical produced water releases that occurred in 2006 at Sawbuck Water Transfer. Yates Petroleum Corporation (Yates) submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 for all three incidents. Incident ID numbers nKMW0800954755, nKMW080054324, and nMLB0608954436 were assigned to the incidents. Yates submitted a remediation work plan that was approved by NMOCD and later submitted a closure report after the remedial activities were completed.

This report provides a description of the assessment associated with the visit by Vertex. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for the closure of these incidents, with the release site also meeting requirements instituted in 2018 per 19.15.29.13 NMAC.

2.0 Incident Description

The first release (nMLB0608954436) occurred on March 5, 2006, due to power failure and tank overflow. All fluids were contained inside the containment for the battery area. Vacuum trucks were dispatched to recover the free fluids and power was restored. The incident was received by NMOCD via C-141 on March 6, 2006, with a Remediation Work Plan submitted on July 21, 2006, and NMOCD approval of the Work Plan occurring August 1, 2006.

The second release (nKMW0800954324) occurred on August 31, 2006, due to power failure and tank overflow. All fluids were contained inside the plastic-lined berms for the battery area. Vacuum trucks were dispatched to recover the free fluids and power was restored. The incident was received by NMOCD via C-141 on September 1, 2006, with closure submitted on October 9, 2006.

The third release (nKMW0800954755) occurred on September 20, 2006, due to a check valve failure that blew a 12" VIC clamp off of the gun barrel riser. All fluids were contained inside the plastic-lined berms for the battery area. Vacuum trucks were dispatched to recover the free fluids. The incident was received by NMOCD on September 22, 2006, with closure submitted on October 9, 2006.

3.0 Site Characteristics

The site is located approximately 8.16 miles southwest of Seven Rivers, New Mexico. The legal location for the site is Section 23, Township 20 South and Range 24 East in Eddy County, New Mexico. The release area is located on the Bureau of Land Management (BLM) property. An aerial photograph and site schematic are presented in Figure 1.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2023) indicates the site's surface geology primarily comprises Qp – Piedmont alluvial deposits (Holocene to lower Pleistocene). The predominant soil texture on the site is Pima silt and Reagan loam. The karst geology potential for the site is high (United States Department of the Interior, Bureau of Land Management, 2023).

Assessment and Closure July 2023

The location was typical of oil and gas water disposals in the Permian Basin and was used for water disposal and transport.

The surrounding landscape is associated with rolling hills and fans with elevations ranging between 1,100 and 5,400 feet. The climate is semiarid with average annual precipitation ranging between 6 and 15 inches. The soil is well-drained with high runoff. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be Blue Grama. Creosote bush, mesquite, and catclaw mimosa are common shrubs (United States Department of Agriculture, Natural Resources Conservation Service, 2023).

4.0 Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Appendix B) was completed to determine if the releases were subject to any special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. The nearest groundwater data is more than 25 years old and located more than 0.5 miles away from the release site; therefore, the depth to groundwater cannot be determined accurately. The closure for the site is determined to be associated with the following constituent concentration limits (Table 1).

Table 1. Closure Criteria for Soils Impacted by	y a Release	
Minimum depth below any point within the		
horizontal boundary of the release to groundwater		
less than 10,000 mg/l TDS	Constituent	Limit
	Chloride	600 mg/kg
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS - total dissolved solids

TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Site Assessment

A remediation work plan for the first release was submitted to NMOCD on July 21, 2006. The work plan was approved by NMOCD on August 1, 2006. After remedial activities for the first release were completed, the second and third releases occurred and were fully contained in the newly lined containment area. Yates Petroleum Corporation (Yates) submitted a closure report for all three Incident IDs on October 9, 2006. Details pertaining to the remedial activities for all three releases are included in the Yates work plan and closure report included in Appendix A.

EOG retained Vertex to conduct a field investigation of any possible remaining impacts at the site prior to reclamation activities being commenced. Investigation efforts began on June 2, 2023, and were finalized on June 5, 2023. Field screening was completed on a total of 3 sample points. Vertex conducted the investigation with sample points BH23-03 through BH23-05 ranging between the surface and 1 foot bgs. After the investigation was completed, it was

Assessment and Closure July 2023

determined that all samples were under NMOCD's strictest closure criteria, and it was deemed that no further investigation/remedial efforts are necessary. The DFR documenting the investigation is presented in Appendix C.

Notification that confirmatory composite samples were being collected was provided to NMOCD on May 31, 2023, and is included in Appendix D. Confirmatory samples were collected at 3 sample points (boreholes) throughout the containment area of the battery. A total of 6 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory under chain-of-custody protocols and analyzed for BTEX, TPH, and chlorides. Laboratory results are presented in Table 2, and the laboratory data reports are included in Appendix E.

Field screening was completed using Dexsil PetroFlag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Hanna DiST EC Meter and HACH Chloride Test Kit (chlorides). Samples were analyzed at Hall Environmental Laboratory for BTEX (8021), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D), and total chlorides (EPA Method 300.0).

6.0 Closure Request

Vertex recommends no additional action to the site. Laboratory analyses of confirmation samples collected in the vicinities of the releases show final confirmatory values below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs as presented in Table 2. There are no anticipated risks to human, ecological, or hydrological receptors at this site.

Vertex requests that these incidents (nKMW0800954755, nKMW080054324, and nMLB0608954436) be closed as all closure requirements set forth at the time were met, and there is no standing exceedances to closure criteria at the site at this time. EOG certifies that all information in this report and the appendices are correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the site.

Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertex.ca.

Assessment and Closure July 2023

7.0 References

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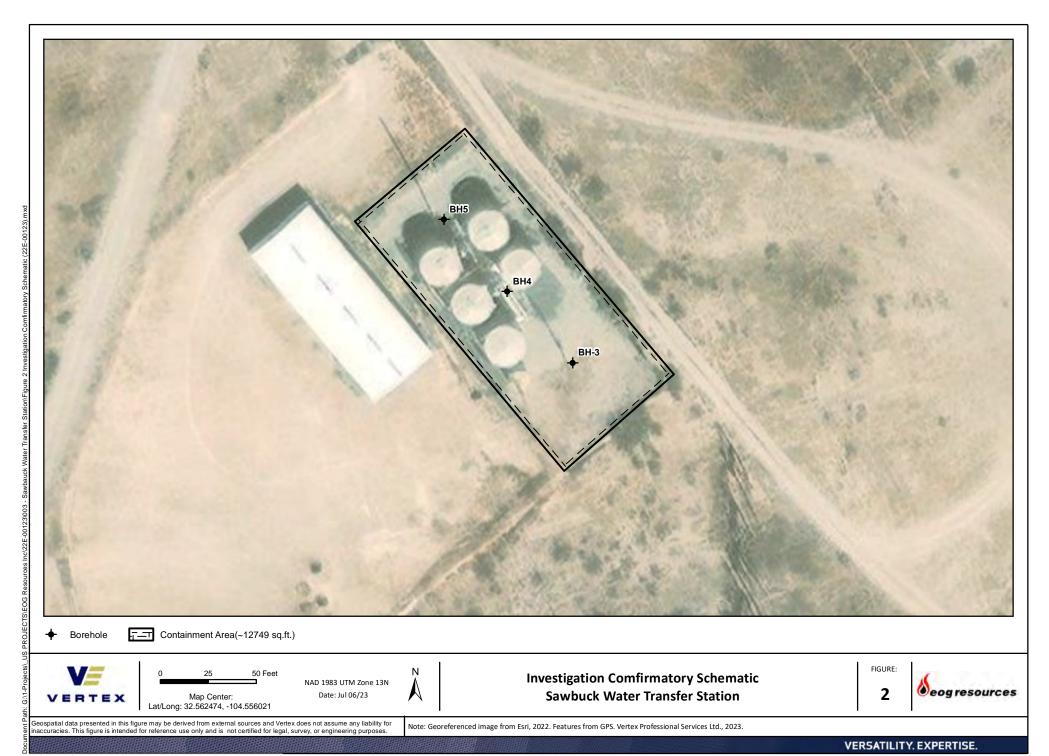
Assessment and Closure July 2023

8.0 Limitations

This report has been prepared for the sole benefit of EOG Resources, Inc (EOG). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and EOG. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgment of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

Vertex Figure



Vertex Table

 ${\bf Table~2.~Investigation~Confirmatory~Laboratory~Results~-~Depth~to~Groundwater~<} 50~feet~bgs$

EOG Resources Inc.

Sawbuck Water Transfer

NMOCD Tracking #: nKMW0800954755, nKMW080054324, and nMLB0608954436

Project #: 22E-00123-03

Lab Reports: 2306177 and 2306399

	Sample Description		Petroleum Hydrocarbons								Inorganic		
Sample ID	Depth (ft)	Date	Renzene (kg.)	Toluene (wg/kg)	(gy Ethylbenzene	(gg/ Total Xylenes	(83/8 BTEX (Total)	공 (중) Gasoline Range Organics (GRO)	공 Persel Range Organics (DRO) (전	공 Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	(항 (항) Chloride Concentration
	NMOCD - NMAC <5	0 ft 19.15.29 (2018)	10	-	-	-	50	-	-	-	-	100	600
Criteria		100 ft 19.15.29 (2018)	10	-	-	-	50	-	-	-	1000	2500	10000
	NMOCD - NMAC >100 ft 19.15.29 (2018)		10	-	-	-	50	-	-	-	1000	2500	20000
Boreholes													
BH23-03	0	June 2, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1	June 5, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH23-04	0	June 2, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1	June 5, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH23-05	0	June 2, 2023	0.028	0.17	0.061	0.46	0.719	6.8	ND	ND	6.8	6.8	ND
	1	June 5, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NMAC - New Mexico Administrative Code (Title 19, Chapter 15, Part 29; 2018)

ND - Not Detected at the Reporting Limit



⁻ Denotes no standard/not analyzed

APPENDIX A - NMOCD C-141 Report and Yates Reports

f New Mexico

Incident ID	nKMW0800954755
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 is	tems must be included in the closure report.
X A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
X Description of remediation activities	
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.1	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: Rep Safety & Environmental Sr
OCD Only	
Received by:	Date:
	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: Ashley Maxwell	7/25/2023 Date:
Closure Approved by: Ashley Maxwell Printed Name: Ashley Maxwell	Title: _ Environmental Specialist

Received by OCD: 7/19/2023 11:01:56 AM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID nKMW0800954324
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 is	tems must be included in the closure report.
X A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
X 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	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title: Rep Safety & Environmental Sr
email: Chase_Settle@eogresources.com	Telephone: 575-703-6537
OCD O.L.	
OCD Only	
Received by:	Date:
	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: Ashley Maxwell Printed Name: Ashley Maxwell	Date:
Printed Name: Ashley Maxwell	Title: Environmental Specialist

Received by OCD: 7/19/2023 11:01:56 AM Form C-141 State of New Mexico
Page 6 Oil Conservation Division

Incident ID nMLB0608954436
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 is	tems must be included in the closure report.
X A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
X Description of remediation activities	
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OCD Owler	
OCD Only	
Received by:	Date:
	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: Ashlay Maxwell	Date: 7/25/2023
Closure Approved by: Ashley Maxwell Printed Name:	Title: Environmental Specialist



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor Joanna Prukop Cabinet Secretary

Mark E. Fesmire, P.E. Director Oil Conservation Division

Released to Imaging: 7/25/2023 10:23:39 AM

Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210

August 1, 2006

ATTN: Environmental Department (Sherry Bonham)

Reference: Sawbuck Water Transfer Station G-23-20s-24e

Operator,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of a work plan proposal (plan) for remediation of a release of produced fluids that occurred at the above referenced facility. The plan proposes removal of a below grade tank located at this site and the installation of an above ground vessel to be utilized for overflow containment. The plan also proposes removal of soils with contaminants present above the OCD Recommended Remedial Action Levels (RRAL) for this site.

The plan is accepted with the following stipulations:

- Notify the OCD 24 hours prior to commencement of activities.
- Notify the OCD 24 hours prior to removal of any below grade tank or vessel. Confirmation samples are to be obtained from excavation prior to backfilling.
- Notify the OCD 24 hours prior to obtaining samples where analyses are to be submitted to the OCD.
- OCD is to be provided a copy of analytical results of all witnessed samples within 3 working days of operator's receipt of results.
- Laboratory analysis for chlorides will be required prior to closure of site.
- Submit a Final Report Form C-141 upon satisfactory completion of activities.
- Remediation requirements may be subject to change as site conditions warrant.
- Remediation to be completed by August 21, 2006.

Please be advised that NMOCD acceptance of this plan does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of this plan does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If I can be of assistance, please contact me.

Sincerely

Mike Bratcher NMOCD District 2

1301 W. Grand Ave. Artesia, NM 88210

(505) 748-1283 Ext. 108

(505) 626-0857

Mike.Bratcher@state.nm.us

MARTIN YATES, III

FRANK W. YATES 1936-1986



ARTESIA, NEW MEXICO 88210-2118RECEIVED

JUL 2 1 2006 OCD-ANTERIA S.P. YATES

JOHN A. YATES

PEYTON YATES
PRESIDENT

FRANK YATES, JR. EXECUTIVE VICE PRESIDENT

JOHN A. YATES, JR.

July 21, 2006

Mr. Mike Bratcher NMOCD District II 1301 West Grand Artesia, NM 88210

Re:

Sawbuck Water Transfer Section 23, T20S-R24E Eddy County, New Mexico

Dear Mr. Bratcher,

Thank you for meeting with me at the Sawbuck Water Transfer on July 10, 2006 to obtain samples for evaluating VOC levels. Based on those readings, Yates Petroleum Corporation would like to submit for your consideration the enclosed work plan for the above captioned site. Scope of work described in the plan will be initiated as soon as the work plan is approved and a contractor can be scheduled.

Should you have any questions, please don't hesitate to contact me. Thank you.

Respectfully,

Sherry Bonham

Environmental Regulatory Agent



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JUL 2.1 2006 OOD-AM+ERIA



WORK PLAN SAWBUCK WATER TRANSFER 23 T20S R24E EDDY COUNTY, NEW MEXICO

July 20, 2006



Sawbuck Water Transfer Yates Petroleum Corporation July 20, 2006

1.0	INTRODUCTION	3
2.0	BACKGROUND	3
2.1	HISTORY OF RELEASE	3
2.2	INITIAL RESPONSE ACTION TAKEN	3
3.0	SITE OBSERVATIONS	3
4.0	RECOMMENDED REMEDIAL ACTION LEVELS	4
5.0	REMEDIAL ACTION PLAN	4

Attachments

- 1. Attachment 1, C-141, March 6, 2006
- 2. Attachment 2, Figure 1 Site Map
- 3. Attachment 3, Site ID: SAWBK002 VOC readings North Overflow Berm Area
- 4. Attachment 4, Site ID: SAWBK003 VOC readings South Overflow Berm Area

Sawbuck Water Transfer Yates Petroleum Corporation July 20, 2006

1.0 INTRODUCTION

This work plan for the Sawbuck Water Transfer has been developed to comply with Section VI, Section A Soil Remediation of the New Mexico Oil and Gas Conservation Division (OCD) *Guidelines for Remediation of Leaks, Spills and Releases* (Guidelines). This plan is based on initial reporting, visual observation, and regulations and Guidelines of the OCD.

2.0 BACKGROUND

2.1 History of Release

Yates Petroleum Corporation (Yates) is the operator of the Sawbuck Water Transfer Station. According to the C-141 filed on March 6, 2006 (Attachment 1), a release of 290 barrels produced water occurred due to a power failure causing tanks to overflow. The released water was contained within the berm.

2.2 Initial Response Action Taken

In response to the release, Yates began immediate cleanup by removing as much of the liquid as could be recovered. Approximately 260 barrels of produced water was recovered.

3.0 SITE OBSERVATIONS

On July 10, 2006 Mike Bratcher of NMOCD and Sherry Bonham of Yates Petroleum Corporation met at the Sawbuck Water Transfer. Two composite samples taken at locations specified by Mr. Bratcher were field tested using the heated headspace method to determine VOC concentrations.

A five spot composite was taken in the North Overflow Berm Area (see Attachment 2, Figure 1 Site Map). Maximum VOC concentrations were 61.5 ppm (see Attachment 3).

A three spot composite was taken in the South Overflow Berm Area (see Attachment 2, Figure 1 Site Map). Maximum VOC concentrations were 226.4 ppm (see Attachment 4).

It was noted there is an overflow pipe that could discharge into the North Overflow Berm Area. There is also an underground storage tank in the South Overflow Berm Area. Released to Imaging: 7/25/2023 10:23:39 AM

Sawbuck Water Transfer Yates Petroleum Corporation July 20, 2006

4.0 RECOMMENDED REMEDIAL ACTION LEVELS

The ranking criteria for this site is as follows (per Section IV of the Guidelines)

Depth to ground water >100' (per ChevronTexaco Water Trend Map)

Not in a wellhead protection area

Distance to surface body water <1000'

TOTAL RANKING SCORE = 0

For sites with a Total Ranking Score of **0**, the Recommended Remedial Action Levels (RRALs) are:

Benzene 10 ppm BTEX 50 ppm TPH 5000 ppm

5.0 REMEDIAL ACTION PLAN

Yates proposes to install an above ground containment vessel for the overflow pipe to discharge into as discussed with Mr. Bratcher. Yates also proposes removal of the existing underground storage tank which is located in the South Overflow Berm Area and re-route the line to discharge into the proposed new containment vessel as discussed with Mr. Bratcher.

Because the South Overflow Berm Area failed the VOC criteria, Yates proposes to excavate the South Overflow Berm Area until a representative sample tested in the field using the heated headspace method show readings not greater than 100 ppm. All excavated materials will be placed on plastic sheeting in a bermed area to prevent spreading contamination and/or will be disposed at a NMOCD approved offsite facility. Once these soils have been removed, the NMOCD will be contacted and given the opportunity to witness the final confirmation sampling for site closure. Confirmation samples will be collected and sent to a third party laboratory for analysis. The samples will be analyzed for TPH (GRO and DRO) by EPA Method 8015B.

If the laboratory analytical results show the soil concentrations are within the RRALs shown in section 4.0 above, excavated area will be backfilled and Yates will request closure approval from OCD per section IX of the Guidelines.

Respectfully Submitted,

Sherry Bonham Environmental Regulatory Agent

ATTACHMENT 1

Planiet J 1625 N. French Dr., Hobbs, NM 88240 Obstrict II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fc, NM 87505

State of New Mexico Energy Minerals and Natural Resources

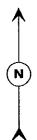
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

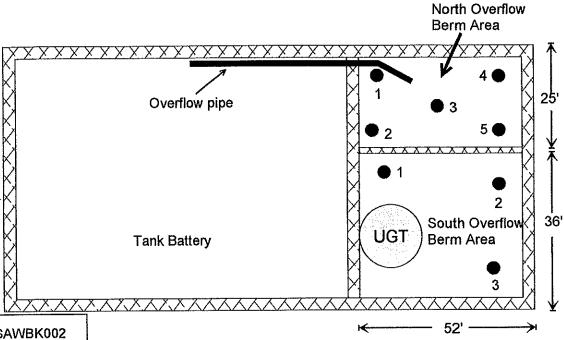
Form C-141 Revised October 10, 2003

Submit-2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

0608	DEL	- 6	icere	ase Notific	CALLON						541 1
BMGOR	9535	556					RATOR		X In	itial Report	Final
Address 105 S. 4th St., Artesia NM 88210			Contact Dan Dolan Telephone No. 748-4181								
					for cist	lon					
			Facility Typ	e water itali	in aidl						
Surface Owner Wilbanks Ranch Mineral Owner				Pad			Lonso N	0.			
				LOC	ATION	OF RE	LEASE				
Jnit Letter	Section	Township	Range	Post from the		South Lin	Feet from the	East/\	Vest Line	County	
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ATTACHMENT 2





SITE ID: SAWBK002 North Overflow Bermed Area Sample Coordinates

SP1 N 32.56234 W104.55543

SP2 N 32.56232 W104.55547

SP3 N 32.56230 W104.55541

SP4 N 32.56229 W104.55537

SP5 N 32.56227 W104.55540 SITE ID: SAWBK003 South Overflow Bermed Area Sample Coordinates

SP1 N 32.56227 W104.55547

SP2 N 32.56223 W104.55544

SP3 N 32.56220 W104.55550



Sawbuck Water Transfer

Sec. 23 T20S R24E

EddyCounty, NM

FIGURE 1 SITE MAP

(Not to Scale)

Released to Imaging: 7/25/2023 10:23:39 AM

ATTACHMENT 3

Instrument: MiniRAE 2000 (PGM. .00)

User ID: SHERRBON Site ID: SAWBK002
Data Points: 1 Gas Name: Isobutylene Sample Period: 60 sec

Serial Numbe..

Last Calibration Time: 07/06/2006 14:06

 Measurement Type:
 Min(ppm)
 Avg(ppm)
 Max(ppm)

 High Alarm Levels:
 101.0
 101.0
 101.0

 Low Alarm Levels:
 101.0
 101.0
 101.0

Line# Date Time Min(ppm) Avg(ppm) Max(ppm)

---- 46.4 61.5 1 07/10/2006 09:32

ATTACHMENT 4

Instrument:	MiniRAE	2000	(PGM	,bo)

Sample Period: 60 sec

Serial Numbe_

User ID: SHERRBON Site ID: SAWBK003
Data Points: 1 Gas Name: Isobutylene
Last Calibration Time: 07/06/2006 14:06

					=
Measurem	ent Type:	Min(ppm)	Avg(ppm)	Max(ppm)	
High Ala	rm Levels:	101.0	101.0	101.0	
Low Aları	m Levels:	101.0	101.0	101.0	
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Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)	
					=
1 07,	/10/2006 10:04		79.9	226.4H	

Page: 1

Sherry Bonham

From: Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]

Sent: Wednesday, September 20, 2006 4:27 PM

To: Sherry Bonham

Subject: RE: Sawbuck Water Transfer

Sherry,

This is to confirm your notification to the OCD of the newest release at the Sawbuck Water Transfer Station and to confirm approval for an extension of time for remediation activities at this site. It appears the lined berm at this site has paid off.

Thanks,

Mike Bratcher NMOCD District 2

From: Sherry Bonham [mailto:sherryb@YPCNM.COM] **Sent:** Wednesday, September 20, 2006 9:49 AM

To: Bratcher, Mike, EMNRD

Subject: Sawbuck Water Transfer

Good morning, Mike. Thank you for visiting with me this morning on the phone regarding the Sawbuck Water Transfer.

This e-mail is to follow up on my calling in (approx. 9:05 am) a spill on the Sawbuck Water Transfer Section 12 T20S R24E Unit G today. The approximate 50 bbl produced water spill occurred this AM 9/19/06. All fluids were contained within the lined bermed area. Vacuum trucks are in process of recovering fluids.

Thanks for the verbal approval to my request for an extension for submitting final closure on the Sawbuck Water Transfer. I ask that extension be granted until October 21, 2006. As you know, original remediation activities had been completed however, a August 31, 2006 release and now a September 19, 2006 release have interfered with submitting the final. All fluids were contained within the newly lined berms. As soon as clean-up actions are complete, I plan to submit closure request.

Thanks, Mike, for your assistance. I would appreciate a confirmation response and look forward to hearing from you.

Should you have any questions or concerns, please don't hesitate to contact me.

Sherry

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Sherry Bonham

From: Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]

Sent: Monday, August 21, 2006 8:11 AM

To: Sherry Bonham Cc: Jerry Fanning

Subject: RE: Sawbuck Water Transfer

Sherry,

The request for an extension on this project to September 21, 2006 is approved.

Mike Bratcher NMOCD District 2 ENTERED 8-21-06 5B

Page 1 of 1

From: Sherry Bonham [mailto:sherryb@YPCNM.COM]

Sent: Friday, August 11, 2006 12:04 PM

To: Bratcher, Mike, EMNRD

Cc: Jerry Fanning

Subject: Sawbuck Water Transfer

Mike.

Soils have been excavated as per the approved workplan of July 20, 2006. I would like to take confirmation samples on Monday August 14, 2006 at 11:00 AM. I would like for this e-mail to provide the required 24 hour notification prior to obtaining the confirmation samples.

As one of the stipulations per your August 1, 2006 letter, you stated that remediation is to be completed by August 21, 2006. Due to there being a 10 day turn around period on samples and our waiting for those results of the confirmation samples, I would also like to request an extension until September 21, 2006 to complete remediation processes. Your consideration to this request is appreciated!

If you have any questions, please don't hesitate to contact me and should I not hear from you, I will assume that you are in agreement. Thanks for your help, Mike!

Sherry

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Received by OCD: 7/19/2023 11:01:56 AM

Sherry Bonham

From:

Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]

Sent:

Tuesday, August 01, 2006 9:50 AM

To:

Sherry Bonham

Cc:

Jerry Fanning

Subject: RE: Sawbuck Water Transfer

Sherry,

Attached is the approval for the July 20, 2006 work plan proposal. If you have personnel available to commence operations on August 2, 2006 please proceed. The approval stipulation to provide OCD with 24 hours notice prior to commencement of activities will be considered to have been met. A signed hard copy of the approval will be sent via mail.

Thanks,

Mike Bratcher NMOCD District 2

From: Sherry Bonham [mailto:sherryb@YPCNM.COM]

Sent: Monday, July 31, 2006 4:47 PM

To: Bratcher, Mike, EMNRD

Cc: Jerry Fanning

Subject: Sawbuck Water Transfer

We have a contractor available to begin underground tank removal and remediation on the Sawbuck Water Transfer. I haven't received a work plan approval from you and am asking if you could fast track this approval. We would like to begin work as early as Wednesday, August 2, 2006.

Thanks, Mike, for your help and attention to this request! Should you have any questions/concerns, please don't hesitate to contact me.

Sherry

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NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor Joanna Prukop Cabinet Secretary

Mark E. Fesmire, P.E. Director Oil Conservation Division

Released to Imaging: 7/25/2023 10:23:39 AM

Yates Petroleum Corporation 105 S. 4th Street Artesia, NM 88210 ATTN: Environmental Department (Sherry Bonham)

Reference: Sawbuck Water Transfer Station G-23-20s-24e

August 1, 2006

Operator,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of a work plan proposal (plan) for remediation of a release of produced fluids that occurred at the above referenced facility. The plan proposes removal of a below grade tank located at this site and the installation of an above ground vessel to be utilized for overflow containment. The plan also proposes removal of soils with contaminants present above the OCD Recommended Remedial Action Levels (RRAL) for this site.

The plan is accepted with the following stipulations:

- Notify the OCD 24 hours prior to commencement of activities.
- Notify the OCD 24 hours prior to removal of any below grade tank or vessel. Confirmation samples are to be obtained from excavation prior to backfilling.
- Notify the OCD 24 hours prior to obtaining samples where analyses are to be submitted to the OCD.
- OCD is to be provided a copy of analytical results of all witnessed samples within 3 working days of operator's receipt of results.
- Laboratory analysis for chlorides will be required prior to closure of site.
- Submit a Final Report Form C-141 upon satisfactory completion of activities.
- Remediation requirements may be subject to change as site conditions warrant.
- Remediation to be completed by August 21, 2006.

Please be advised that NMOCD acceptance of this plan does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of this plan does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If I can be of assistance, please contact me.

Sincerely,

Mike Bratcher NMOCD District 2 1301 W. Grand Ave. Artesia, NM 88210 (505) 748-1283 Ext. 108 (505) 626-0857 Mike.Bratcher@state.nm.us MARTIN YATES, III

ESTAY W NAST



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (505) 748-1471

S.P. YATES

JOHN A. YATES

PEYTON YATES

FRANK YATES, JR.
EXECUTIVE VICE PRESIDENT

JOHN A. YATES, JR. SENIOR VIDE PRESIDENT

October 9, 2006

Mr. Mike Bratcher NMOCD – District 2 1301 West Grand Street Artesia, NM 88210

RE:

Sawbuck Water Transfer

23 T20S R24E Unit G

Dear Mike,

Yates Petroleum Corporation respectfully requests closure to three separate incidents on the above mentioned site. Please find the Final Report C 141s for release dates of March 5, 2006, August 31, 2006, and September 20, 2006 in attachment A.

For the March 5, 2006 release date, the work plan for remediation including removal of a below grade tank at this site was submitted on July 21, 2006 and approved by NMOCD on August 1, 2006. Underground tank removal and all remediation activities have since been completed as per plan. The bermed area was lined with 12 mil reinforced plastic underlayment.

According to the ChevronTexaco Eddy County Depth to Ground Water Trend Map, depth to water in this area is between 250 and 275 feet. No water wells or surface waters are located within 1,000 feet of this site. Using the NMOCD ranking criteria, site investigation and data provided, this site has a Ranking Score of $\underline{\mathbf{0}}$. The soil action levels for a site with this score are as follows:

Benzene

BTEX

TPH

10 ppm

50 ppm

5000 ppm

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Confirmation samples (please note the sample point diagram in attachment B) taken August 14, 2006 and submitted to a third party laboratory do not exceed these criteria. The laboratory analysis is provided for your review (Attachment C).

Two additional releases occurring on August 31, 2006 and September 20, 2006 were sustained. However, both releases were contained within the newly lined bermed area. Standing fluids on both releases were vacuumed. Impacted materials of both releases were removed from the plastic liner, hauled to an OCD approved waste facility, and replaced with clean materials.

Given the analysis information and the two additional releases were contained within a plastic lined bermed area, there appears to be minimal risk to human health or the environment. In light of this evaluation, Yates Petroleum Corporation requests NMOCD grant final closure to the March 5, 2006, August 21, 2006, and September 20, 2006 releases.

Sincerely,

Sherry Bonham

Environmental Regulatory Agent

enclosures

Attachment A

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

:	:			<u>•</u>	PERA	ATOR		Initi	al Report	🛛 Final R		
Name of Co			I mros r	OGRID Nun	nber	Contact						
YATES PETROLEUM CORPORATION 25575						SHERRY BONHAM Telephone No						
Address 105 S. 4 TH S	трррт					Telephone No. 505-748-1471						
Facility Nar				API Number		Facility Typ		**************************************		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
SAWBUCK WATER TRANSFER						SWD						
Surface Ow	ner			Mineral (Owner			Lease	No.			
FEDERAL FEDERAL												
:		:	:	LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	n/South Line	Feet from the	East/West Line	, .			
G	23	208	24E		ĺ				EDDY			
:		l		Y 424 J.	,£	Yanaituda	1	1,,,,,,				
	1			Latitude				_				
Town of Dalo	<u> </u>			NA'I	TURE	Volume of		Volume	Recovered			
Type of Rele PRODUCED						290 B/PW		260 B/F				
-	:		·						1.17			
Source of Re			±	: 1		3/05/06 0	Hour of Occurrent 900	ce Date an 3/5/06	d Hour of Disco 0900	very		
Was Immedi				-		If YES, To	Whom?	,		***************************************		
	•	×	Yes [No Not R	equired							
By Whom?	N1					Date and I						
DAN DOLA Was a Water		ched?				3/6/06 09 If YES, V		the Watercourse.				
	:		Yes 🛭			N/A			W			
If a Waterco	urse was Im	pacted, Desc	ibe Fully.	*								
Describe Ca		lem and Remo		on Taken.*								
POWER FA	ILURE. PO	OWER REST	ORED.	•								
Describe Are	a Affected	and Cleanup	Action Ta	ken.*								
ALL FLUID	S WERE C			BERMS. VAC	UUME	D STANDING	FLUIDS.					
SITE RANK		ONE COMBI	ETE DED	ADDDOVED W	ODK D	I ANI RINIAT	DEDUDT DEU	UESTING CLOS	IIRE			
I hereby cert	ify that the	information g	iven abov	e is true and com	plete to	the best of my	knowledge and	understand that p	arsuant to NMC	OCD rules and		
regulations a	Il operators	are required	to report a	nd/or file certain	release	notifications	and perform corre	ctive actions for a	eleases which r	nay endangei		
public health	or the env	ironment. Th	e acceptar	ice of a C-141 rep	ort by t	the NMOCD r	narked as "Final I	Report" does not a reat to ground wa	elieve the opera	ator of liabilit		
or the enviro	operations inment. In	nave ranco to addition. NM	occe acce	y investigate and obtained of a C-14.	remeai I report	does not relie	ve the operator of	responsibility for	compliance wat	ith any other		
		iws and/or reg		* .								
	:						OIL CON	ISERVATIO	<u>N DIVISIO</u>	<u>N</u>		
Signature:	SLS	32.										
						Approved by	y District Supervi	sor:				
Printed Nan	e: Sherry E	sonham			·		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Title: Environmental Regulatory Agent					Approval D	ate:	Expiration	on Date:				
E-mail Add	ess: sherry	b@ypenm.coi	n.			Conditions	of Approval:		Attached	г		
Date: Octol				: 505-748-1471					Attached	ш		
		eets If Neces		, JUJ-740-1471		<u> </u>			<u> </u>			
	:		: Territ									
		•	:									
	:											

District I
1625 N. French Dr., Hobbs, NM 88240
District II
200 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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

	OPER			— ∏ Initis	ıl Report 🛛 Final Report			
Name of Company YATES PETROLEUM CORPORATIO	OGRID Number	Contact SHERRY B	ОЛНАМ					
Address		Telephone 1	No.					
105 S. 4 TH STREET		505-748-14						
Facility Name	API Number	Facility Typ	е					
SAWBUCK WATER TRANSFER		SWD						
Surface Owner FEDERAL	Mineral Owner FEDERAL			Lease	No.			
	LOCATION OF RELEASE							
Unit Letter Section Township Rang G 23 20S 24	9 1	th/South Line	Feet from the	East/West Line	County EDDY			
	Latitude	Longitude		_				
	NATUR	E OF REL	EASE		•			
Type of Release PRODUCED WATER CRUDE OIL		Volume of 395 B/PW 5 B/O		Volume 380 B/P 4 B/O	Recovered W			
Source of Release		4	Hour of Occurrence	e Date and	Hour of Discovery			
TANK OVERFLOW Was Immediate Notice Given?	: :	8/31/06 1 If YES, To		8/31/06	1:00 PM			
	☐ No ☐ Not Require							
By Whom? SHERRY BONHAM		Date and I 8/31/06 3	:15 PM					
Was a Watercourse Reached?			olume Impacting	the Watercourse.				
If a Watercourse was Impacted, Describe Fu	No No	N/A						
N/A								
Describe Cause of Problem and Remedial A POWER FAILURE DUE TO SEVERE TH TRUCK AND CREW CALLED IN.	action Taken.* UNDERSTORM. RESUL	TED IN AUTO	VALVE FAILU	RE. CLOSED M	ANUAL VALVES. VACUUM			
Describe Area Affected and Cleanup Action ALL FLUIDS WERE CONTAINED WITH REMOVED FROM PLASTIC LINER ANI SITE RANKING: 0. FINAL REPORT. REQUESTING CLOSU	IIN PLASTIC LINED BER D REPLACED. UPON CC	LMS. STANDI MPLETION, F	NG FLUIDS VAC INAL C-141 TO	CUUMED. IMPA BE SUBMITTEL	ACTED MATERIALS TO BE).			
I hereby certify that the information given a regulations all operators are required to republic health or the environment. The acceshould their operations have failed to adequor the environment. In addition, NMOCD affederal, state, or local laws and/or regulation	above is true and complete to ort and/or file certain release ptance of a C-141 report by tately investigate and remedaceptance of a C-141 repo	e notifications: the NMOCD r liate contamina	and perform corre narked as "Final I tion that pose a th	ctive actions for r Report" does not r reat to ground wa	eleases which may endanger elieve the operator of liability ter, surface water, human health			
Total, butte, or rotal fairs and or rogalitate			OIL CON	ISERVATIO	N DIVISION			
Signature Sl					.20			
Printed Name: Sherry Bonham		Approved b	y District Supervi	sor:	: 735			
Title: Environmental Regulatory Agent		Approval D	ate:	Expiration	on Date:			
E-mail Address: sherryb@ypcnm.com Conditions of Approval: Attached								
	ne: 505-748-1471		,					
* Attach Additional Sheets If Necessary					1			

1625 N. French Dr., Hobbs, NM 88240 District II

301 W. Grand Avenue, 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

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

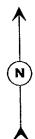
Form C-141 Revised October 10, 2003

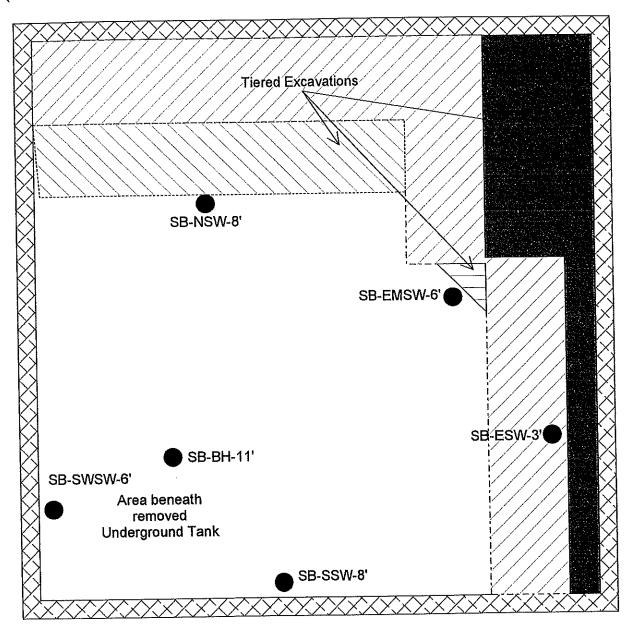
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

Release	Notification	and	Corrective	Action
	1 10011100101011	••	-	

			:	OI	ERAT	ΓOR			Initial 1	Report Final Report
Name of Co	mpany TROLEUN	1 CORPOR	ATION	OGRID Nun 25575		Contact SHERRY BONHAM				
Address 105 S. 4 TH S			•			'elephone N 05-748-147				
Facility Nar	ne	TRANSFER		API Number	F	acility Typ				
Surface Ow				Mineral C				L	ease No	0.
FEDERAL				FEDERA	<u>L</u>					
:		-				OF REI	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		T	
Unit Letter G	Section 23	Township 20S	Range 24E	Feet from the	North/S	South Line	Feet from the	East/West	Line	County EDDY
•	:			Latitude		Longitude		_		
	;	: .		NAT	URE	OF REL	······································			
Type of Rele PRODUCED	ase WATER			_		Volume of 50 B/PW	Release		olume R 7 B/PW	ecovered
Source of Re					-	9/20/06 8:			ate and I 20/06 8	Hour of Discovery 45 AM
Was Immedi	late Notice (Given? ⊠	Yes [] No □ Not R	equired-	If YES, To MIKE BR				
By Whom? SHERRY B						Date and I 9/20/06 9				
Was a Water		ched?	Yes 🏻	đ No			olume Impacting	the Waterco	ourse.	
If a Waterco	urse was In	pacted, Desc								
Describe Ca	LVE FAIL	em and Remo URE BLEW	edial Action 12" VIC C	on Taken.* LAMP OFF OF (GUN BA	RREL RISE	R. SHUT MAIN	VALVES.	VACU	UM TRUCK AND CREW
ALLFLUID	OS WERE C FROM PL	and Cleanup ONTAINED ASTIC LINE	WITHIN	ken.* PLASTIC LINEI EPLACED. UPC	D BERM ON COM	S. STANDI PLETION, F	NG FLUIDS VA TNAL C-141 TO	CUUMED. BE SUBMI	IMPAC ITTED.	TED MATERIALS TO BE
FINAL BEE	ORT REC	QUESTING C	LOSURE		1.4. 4. 4	1 1	. I and	dorotond	that nur	went to NMOCD rules and
regulations public healt should their or the envir	all operators h or the env operations onment. In	s are required ironment. Th have failed to addition, NM	to report a e acceptar adequate OCD acce	and/or file certain ace of a C-141 rep v investigate and	release roort by the remediate	iotifications : le NMOCD r le contamina	and perform corre narked as "Final l tion that pose a th	ective action Report" doe ireat to grou	s for rel s not rel ind wate	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other
federal, stat	e, or local is	ws and/or reg	guiations.		. [OIL CON	ISERVA	TION	TATTITOTOAT
Signatur	The	Z	5							DIVISION
Printed Nar	ne: Sherry I	l Bonham	2			Approved b	y District Superv	isor:	w	
Title: Envir	onmental R	egulatory Age	ent			Approval D	ate:	Ex	piration	Date:
E-mail Address: sherryb@ypcnm.com Conditions of Approval: Attached							Attached			
Date: Octo				e: 505-748-1471						- Journal of the Control of the Cont
	. :	:	:							a de la companya de

Attachment B







SAWBUCK WATER TRANSFER

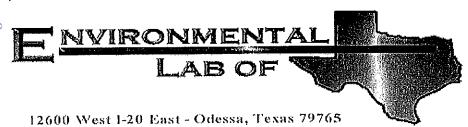
Sec. 23 T20S R24E

Eddy County, NM

SAMPLE POINT DIAGRAM AUGUST 14, 2006 SAMPLE DATE

NOT TO SCALE

Attachment C



Analytical Report

Prepared for:

Sherry Bonham
Yates Petroleum Corp.
105 S. Fourth St.
Artesia, NM 88210

Project: Sawbuck Water Transfer
Project Number: G-23-20S-24E
Location: Eddy County, NM

Lab Order Number: 6H15010

Report Date: 08/21/06

Yates Petroleum Corp.

Project: Sawbuck Water Transfer

Fax: (505) 748-4662

105 S. Fourth St. Artesia NM, 88210

Project Number: G-23-20S-24E Project Manager: Sherry Bonham

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-BH-11'	6H15010-01	Soil	08/14/06 10:40	08-15-2006 10:40
SB-ESW-3'	6Н15010-02	Soil	08/14/06 10:55	08-15-2006 10:40
SB-SWSW-6'	6Н15010-03	Soil	08/14/06 10:25	08-15-2006 10:40
SB-SSW-8'	6Н15010-04	Soil	08/14/06 10:35	08-15-2006 10:40
SB-NSW-8	6H15010-05	Soil	08/14/06 10:45	08-15-2006 10:40
SB-EMSW-6'	6H15010-06	Soil	08/14/06 10:50	08-15-2006 10:40

Yates Petroleum Corp. 105 S. Fourth St. Artesia NM, 88210 Project: Sawbuck Water Transfer

Project Number: G-23-20S-24E Project Manager: Sherry Bonham Fax: (505) 748-4662

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
SB-BH-11' (6H15010-91) Soil									
Carbon Ranges C6-C10	J (2.20)	10.0	mg/kg dry	1	EH61503	08/15/06	08/16/06	EPA 8015B	
Carbon Ranges >C10-C28	193	10.0	ıt	ŋ	H	н	ķī	11	
Total Carbon Range C6-C28	193	10.0	U	I(11	*1	H	15	
Surrogate: 1-Chlorooctane		112 %	70-13	0	N	n	u	Ħ	
Surrogate: 1-Chlorooctadecane		106 %	70-13	0	"	n	n	μ	
SB-ESW-3' (6H15010-02) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EH61503	08/15/06	08/16/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	T)	u	10	n	Ħ	ıı .	
Total Carbon Range C6-C28	ND	10.0	11	11	IF	11	Ħ	P	
Surrogate: 1-Chlorooctane		102 %	70-13	10	"	"	u	fr .	
Surrogate: 1-Chlorooctadecane		93.6 %	70-13	80	n	н	a	ti	
SB-SWSW-6' (6H15010-03) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dıy	i	EH61503	08/15/06	08/16/06	EPA 8015B	
Carbon Ranges > C10-C28	ND	10.0	п	В	tr.	n	n	и	
Total Carbon Range C6-C28	ND	10.0	**	**	14		11	17	
Surrogate: 1-Chlorooctane		104 %	70-13	30	п	Ħ	O	н	
Surrogate: 1-Chlorooctadecane		97.4 %	70-13	30	"		n	**	
SB-SSW-8' (6H15010-04) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	ı	EH61503	08/15/06	08/16/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	U	"	**	H	n	11	
Total Carbon Range C6-C28	ND	10.0	11	h	16	FI	11	IF	
Surrogate: 1-Chlorooctane		106 %	70-1.	30	*	а	"	n	
Surrogate: 1-Chlorooctadecane		99.0 %	70-1.	30	и	н	п	H	
SB-NSW-8' (6H15010-05) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dıy	1	EH61503	08/15/06	08/11/80	EPA 8015B	
Carbon Ranges > C10-C28	ND	10.0	u	Iŧ	u	tt	n	ü	
Total Carbon Range C6-C28	DИ	10.0	41	"	If	11	11	41	
Surrogate: I-Chlorooctane		108 %	70-1	30	H	n	n n	И	
Surrogate: 1-Chlorooctadecane		99.0 %	70-1	30	t t	"	н	o	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Yates Petroleum Corp.

105 S. Fourth St. Artesia NM, 88210 Project: Sawbuck Water Transfer

Project Number: G-23-20S-24E Project Manager: Sherry Bonham

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-EMSW-6' (6H15010-06) Soil									
Carbon Ranges C6-C10	ND	10.0	mg/kg dry	1	EH61503	08/15/06	08/16/06	EPA 8015B	
Carbon Ranges >C10-C28	ND	10.0	"	¥1	"	n	H	н	
Total Carbon Range C6-C28	ND	10.0	ét	11	ri	II	н	lt.	
Surrogate: I-Chlorooctane		103 %	70-1	30	17	14	n	н	
Surrogate: 1-Chlorooctadecane		97.2 %	70-1	30	"	**	"	te	

Released to Imaging: 7/25/2023 10:23:39 AM

Fax: (505) 748-4662

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety,

with written approval of Environmental Lab of Texas.

Yates Petroleum Corp.

105 S. Fourth St. Artesia NM, 88210 Project: Sawbuck Water Transfer

Project Number: G-23-20S-24E Project Manager: Sherry Bonham Fax: (505) 748-4662

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-BH-11' (6H15010-01) Soil									
% Moisture	5.1	0.1	%	1	EH61601	08/15/06	08/16/06	% calculation	
SB-ESW-3' (6H15010-02) Soil									
% Moisture	17.4	0.1	%	1	EH61601	08/15/06	08/16/06	% calculation	
SB-SWSW-6' (6H15010-03) Soil									
% Moisture	15.9	0.1	%	1	EH61601	08/15/06	08/16/06	% calculation	
SB-SSW-81 (6H15010-04) Soil									
% Moisture	13.3	0.1	%	1	EH61601	08/15/06	08/16/06	% calculation	
SB-NSW-8' (6H15010-05) Soil									
% Moisture	10.0	0.1	%	i	EH61601	08/15/06	08/16/06	% calculation	
SB-EMSW-6' (6H15010-06) Soil									
% Moisture	13.5	0.1	%	1	EH61601	08/15/06	08/16/06	% calculation	

Yates Petroleum Corp.

105 S. Fourth St. Artesia NM, 88210 Project: Sawbuck Water Transfer

Project Number: G-23-20S-24E Project Manager: Sherry Bonham Fax: (505) 748-4662

Organics by GC - Quality Control **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	rtosur	Dilli	3,1110			-				
Batch EH61503 - EPA 5030C (GC)										
Blank (EH61503-BLK1)				Prepared: 0	08/15/06 A	nalyzed: 08	/16/06			
Carbon Ranges C6-C10	ИD	10,0	mg/kg wet							
Carbon Ranges >C10-C28	ND	10.0	H							
Total Carbon Range C6-C28	ND	10.0	*1							
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	49.2		"	50.0		98.4	70-130			
LCS (EH61503-BS1)				Prepared: (08/15/06 A	nalyzed: 08	/16/06			
Carbon Ranges C6-C10	524	10.0	mg/kg wet	500		105	75-125			
Carbon Ranges >C10-C28	467	10,0	n	500		93.4	75-125			
Total Carbon Range C6-C28	991	10.0	n	1000		99.1	75-125			
Surrogate: 1-Chlorooctane	60.7		mg/kg	50.0		121	70-130			
Surroyate: 1-Chlorooctadecane	47.5		**	50.0		95.0	70-130			
Calibration Check (EH61503-CCVI)				Prepared:	08/15/06 A	nalyzed: 08	3/16/06			
Carbon Ranges C6-C10	232		mg/kg	250		92.8	80-120			
Carbon Ranges >C10-C28	283		u	250		113	80-120			
Total Carbon Range C6-C28	515		n	500		103	80-120			
Surrogate: 1-Chlorooctane	64.9		п	50.0		130	70-130			
Surrogate: 1-Chlorooctadecane	59.7		*	50.0		119	70-130			
Matrix Spike (EH61503-MSI)	Sour	ce: 6H1501	0-02	Prepared:	08/15/06 A	nalyzed: 0	8/16/06			
Carbon Ranges C6-C10	630	0,01	mg/kg dry	605	ND	104	75-125			
Carbon Ranges >C10-C28	549	10.0	Ħ	605	ND	90.7	75-125			
Total Carbon Range C6-C28	1180	10.0	B	1210	ND	97.5	75-125			
Surrogate: I-Chlorooctane	63.9		mg/kg	50.0		128	70-130			
Surragate: 1-Chlorooctadecane	50.3		B	50.0		101	70-130			
Matrix Spike Dup (EH61503-MSD1)	Sour	rce: 6H1501	0-02	Prepared:	08/15/06 /	Analyzed: 0	8/16/06			
Carbon Ranges C6-C10	677	10.0	ing/kg diy	605	ND	112	75-125	7.19	20	
Carbon Ranges > C10-C28	590	10.0	*1	605	ND	97.5	75-125	7.20	20	
Total Carbon Range C6-C28	1270	10.0	н	1210	ND	105	75-125	7,35	20	
Surrogate: 1-Chloroactane	62.3		mg/kg	50.0		125	70-130			
Surrogate: I-Chlorooctadecane	53.7		"	50.0		107	70-130			

ed by OCD: 7/19/2023

Yates Petroleum Corp.

105 S, Fourth St. Artesia NM, 88210 Project: Sawbuck Water Transfer

Project Number: G-23-20S-24E Project Manager: Sherry Bonham Fax: (505) 748-4662

General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH61601 - General Preparation (Prep)										
Blauk (EH61601-BLK1)				Prepared: 0	8/15/06 A	malyzed: 08	/16/06			
% Solids	100		%							
Duplicate (EH61601-DUPI)	Sour	rce: 6H15002	-01	Prepared: 0	8/15/06 A	nalyzed: 08	/16/06			
% Solids	90.3		%		89.0			1.45	20	
Duplicate (EH61601-DUP2)	Sou	rce: 6H15007	-04	Prepared: (8/15/06 A	Analyzed: 08	/16/06			
% Solids	97,3		%		96.9			0.412	20	
Duplicate (EH61601-DUP3)	Sou	rce: 6H15013	-01	Prepared: (08/15/06 A	Analyzed: 08	/16/06			
% Solids	90,1		%		90,1			0.00	20	

Yates Petroleum Corp.	Project:	Sawbuck Water Transfer	Fax: (505) 748-4662
105 S. Fourth St.	Project Number:	G-23-20S-24E	
Artesia NM, 88210	Project Manager:	Sherry Bonham	

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dıy	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Coutrol Spike
MS	Matrix Spike
Dap	Duplicate

	Kaland KJulls			
Report Approved By:	Kacan C 100	Date:	8/21/2006	

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-1800 Fax: 432-563-1713

12500 West f-20 East

Environmental Lab of Texas

Comment of the second of the s	į S					•	Odes	sa, Te	Odessa, Texas 79765	765			Proje	Project Name:	9:	gwbi	E S	Fax: 432-563-1713 Sawbuck Water Transfer	1-563- Trany	1713 sfer			
•	Sherry Bonnem	5									1		3	Project #:	#	23	G-23-20S-24E	74E					
	Street												Ų.	Project Loc: Eddy County	<u> </u>	dáy O	ormty						
City/State/Zip; Artesia, h	Artesia, NM 88210													ď.	PO #: 1032420	03242	و]				-	
	505-748-4162 or 505-513-1529	1529			Fax No: 505-748-4585	505-7	48-45	35				Reg	H HOC	Report Format:		絽	Standard		TRRP		□ NPDES	អ្ន	
Sampler Signature:		7			e-mail: sheryல்@ypcnm.com	shern	6@yp	c.mn.o	Ë				L									ŀ	r
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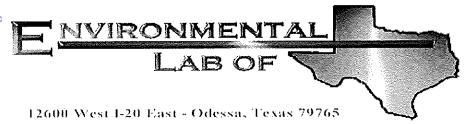
Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Pa	Validition Confound (text)	_
ent:	Vales	
te/ Time:	18/15/de 10:40	
) ID#:	<u>uttisqo</u>	
ials:	UK.	
	Sample Receipt Checklist	

Sample Receipt	DITCOMINGE		Clie	ent Initials
Temperature of container/ cooler?	Yes	No	3.5 °C	
Shipping container in good condition?	Xes	/ No		
Custody Seals intact on shipping container/ cooler?	Fes	No	Not Present	
Custody Seals intact on sample bottles/ container?	Xes	No	Not Present	
Chain of Custody present?	€ 8	No		
Sample instructions complete of Chain of Custody?	Yes.	No		
Chain of Custody signed when relinquished/ received?	χ e js	No		
Chain of Custody agrees with sample label(s)?	Yes .	No	ID written on Cont./ Lid	
Container label(s) legible and intact?	X •8,S	No	Not Applicable	
O Sample matrix/ properties agree with Chain of Custody?	Yes	No		
11 Containers supplied by ELOT?	Ves .	No		
12 Samples in proper container/ bottle?	Yes_	No	See Below	
13 Samples properly preserved?	Yes	No	See Below	
14 Sample bottles intact?	Yes	No		
15 Preservations documented on Chain of Custody?	Yes_	No		
16 Containers documented on Chain of Custody?) Es	No		
17 Sufficient sample amount for indicated test(s)?		No	See Below	
18 All samples received within sufficient hold time?	Xe ₃ s	No	See Below	
19 VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact:		Contacted by:	Date/ Time.
Regarding:			
Corrective Action Taken	•		
eck all that Apply:		See attached e-mail/ fax Client understands and would like to proceed with a	nalysis
eck all that Apply:		Cooling process had begun shortly after sampling e	vent



Analytical Report

Prepared for:

Sherry Bonham
Yates Petroleum Corp.
105 S. Fourth St.
Artesia, NM 88210

Project: Sawbuck Water Transfer
Project Number: G-23-20S-24E
Location: Eddy County, NM

Lab Order Number: 6H15010

Report Date: 08/21/06

Yates Petroleum Corp.

105 S. Fourth St. Artesia NM, 88210 Project: Sawbuck Water Transfer

Project Number: G-23-20S-24E Project Manager: Sherry Bonham

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Matrix	Date Sampled	Date Received
6H15010-01	Soil	08/14/06 10:40	08-15-2006 10:40
6H15010-02	Soil	08/14/06 10:55	08-15-2006 10:40
6H15010-03	Soil	08/14/06 10:25	08-15-2006 10:40
6H15010-04	Soil	08/14/06 10:35	08-15-2006 10:40
6H15010-05	Soil	08/14/06 10:45	08-15-2006 10:40
6H15010-06	Soil	08/14/06 10:50	08-15-2006 10:40
	6H15010-01 6H15010-02 6H15010-03 6H15010-04 6H15010-05	6H15010-01 Soil 6H15010-02 Soil 6H15010-03 Soil 6H15010-04 Soil 6H15010-05 Soil	6H15010-01 Soil 08/14/06 10:40 6H15010-02 Soil 08/14/06 10:55 6H15010-03 Soil 08/14/06 10:25 6H15010-04 Soil 08/14/06 10:35 6H15010-05 Soil 08/14/06 10:45

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Fax: (505) 748-4662

Yates Petroleum Corp.

105 S. Fourth St. Artesia NM, 88210 Project: Sawbuck Water Transfer

Project Number: G-23-20S-24E Project Manager: Sherry Bonham

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-BH-11' (6H15010-01) Soil									
Chloride	642	10.0	mg/kg	20	EH61511	08/15/06	08/15/06	EPA 300.0	
SB-ESW-3' (6H15010-02) Soil									
Chloride	316	0.01	mg/kg	20	EH6[5]]	08/15/06	08/15/06	EPA 300.0	
SB-SWSW-6' (61115010-03) Soil									
Chloride	362	10.0	mg/kg	20	EH61511	08/15/06	08/15/06	EPA 300.0	
SB-SSW-8' (6H15010-04) Soil									
Chloride	869	20.0	mg/kg	40	EH61511	08/15/06	08/15/06	EPA 300.0	
SB-NSW-8' (6H15010-05) Soil									
Chloride	1090	25.0	mg/kg	50	EH61511	08/15/06	08/15/06	EPA 300.0	
SB-EMSW-6* (6H15010-06) Soil									
Chloride	191	10.0	mg/kg	20	EH61511	08/15/06	08/15/06	EPA 300.0	

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Fax: (505) 748-4662

Yates Petroleum Corp.

105 S. Fourth St. Artesia NM, 88210 Project: Sawbuck Water Transfer

Project Number: G-23-20S-24E Project Manager: Sherry Bonham

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC	# P. F.	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EH61511 - Water Extraction										
Blank (EH61511-BLK1)				Prepared &	t Analyzed:	08/15/06				
Chloride	ND	0.500	mg/kg							
LCS (EH61511-BS1)				Prepared &	analyzed:	08/15/06				
Chloride	9.79	0,500	mg/kg	10.0		97.9	80-120			
Calibration Check (EH61511-CCV1)				Prepared &	k Analyzed	08/15/06				
Chloride	9.49		mg/L	10.0		94.9	80-120			
Duplicate (EH61511-DUP1)	Sou	rce: 6H15002	-02	Prepared &	k Analyzed	: 08/15/06				
Chloride	42.2	5.00	mg/kg	•	43.4			2,80	20	
Duplicate (EH61511-DUP2)	Sou	rce: 6H15010	-01	Prepared &	k Analyzed	: 08/15/06				
Chloride	647	10.0	mg/kg		642			0.776	20	
Matrix Spike (EH61511-MS1)	Sou	rce: 6H15002	-02	Prepared &	k Analyzed	: 08/15/06				
Chloride	149	5,00	mg/kg	100	43.4	106	80-120			
Matrix Spike (EH61511-MS2)	Sou	rce: 6H15010	-01	Prepared &	k Analyzed	: 08/15/06				
Chloride	900	10,0	mg/kg	200	642	129	80-120			

Released to Imaging: 7/25/2023 10:23:39 AM

Fax: (505) 748-4662

Yates Petroleum Corp.

Project: Sawbuck Water Transfer

Fax: (505) 748-4662

105 S. Fourth St.

Project Number: G-23-20S-24E

Artesia NM, 88210

Project Manager: Sherry Bonham

Notes and Definitions

S-07	Recovery outside Laboratory historical or method prescribed limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

	Raland Kitub		
Report Approved By:	Kaacon C No	Date:	8/21/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Phone: 432-563-1800

12500 West I-20 East

Environmental Lab of Texas

TAT brebnet2 enist ,86, ,82 (eiubeneeseng) TAT HZUF z zz z z z NPDES DOD ED WI Fax: 432-563-1713 × × × × × Суючае Project Name: Sawbuck Water Transfer иоъем. TRRP IJЯ Sample Containers Intact? VOCs Free of Headspace? Laboratory Comments: BTEX 80218/5030 or BTEX 8260 Project #: G-23-20S-24E ecilifelovimoS Standard Project Loc: Eddy County PO #: 1032420 ме*в*яя: Уз Уй вя Са Стър но ве TCLP TOTAL SAR7@SP7.CEC (ci, 504, CO3, HCO3) Report Format: Callons (Ca. Mg, Na, K) Please put chloride results on different report. TPH: 418 1 BOISM 1005 × 1000 × \times × ഗ ഗ S Ø (V) MA-CHUKUO Matet 27- Singht Озрег (Specify) Mone Odessa, Texas 79765 _zO_sS_seN HOSN e-mail: sherryb@yponm.com 'ostii ЮН Fax No: 505-748-4585 ¢ОИН 80 × × × × No. of Containers Please analyze TPH 8015 B (GRO/DRO) -- not TPH 8015M. 10:40am 10:55AM 10:25AM 10:35AM 10:45AM 10:50AM Time Sampled 8/14/2006 8/14/2006 8/14/2006 8/14/2006 8/14/2006 8/14/2006 Date Sampled 11, ritqaQ Quipus Ċ, ω œ œ ō gedinning Depth 505-748-4162 or 505-513-1529 Yates Petroleum Corporation Artesia, NM 88210 Company Address: 305 S 4th Street Sherry Bonham SB-SWSW-6' SB-EMSW-6' FIELD CODE SB-NSW-8' SB-ESW-3' SB-SSW-8' SB-BH-11 11500 Sampler Signature: Project Manager: Company Name Telephone No: City/State/Zip: Special Instructions: (lab use only) ORDER#: (ylno esu del) # 8A

one Star

Custody seals on container(s) Custody seals on cooler(s)

Sample Hand Delivered by Sampler/Ollent Rep. by Courier?

Date

Received by

Fine

Sate

311

Date

3:00 Ptd

08/14/05 Date

Time

Relinquished by

Relinquished by Sherry Bonham

Relinquished by

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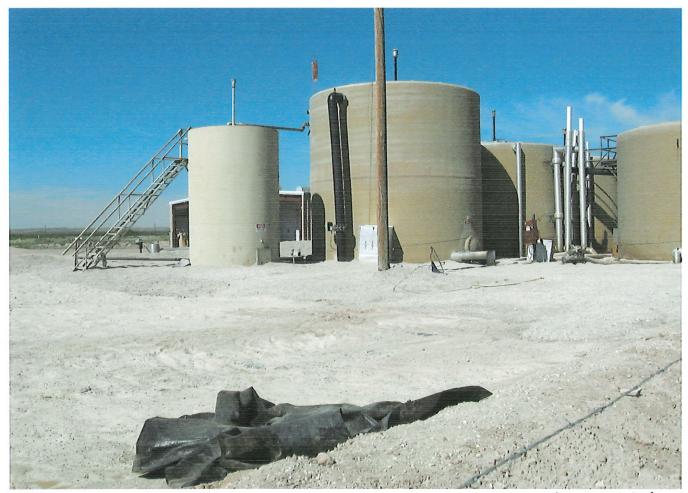
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Environmental Lab of Texas

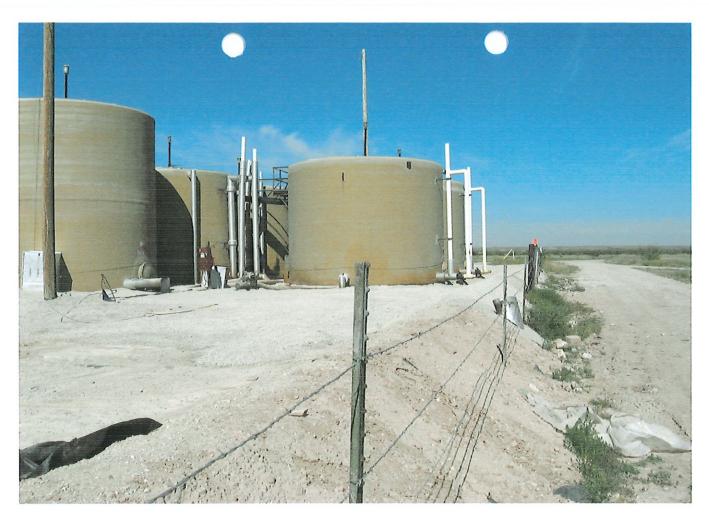
Variance/ Corrective Action Report- Sample Log-In

Cooling process had begun shortly after sampling event



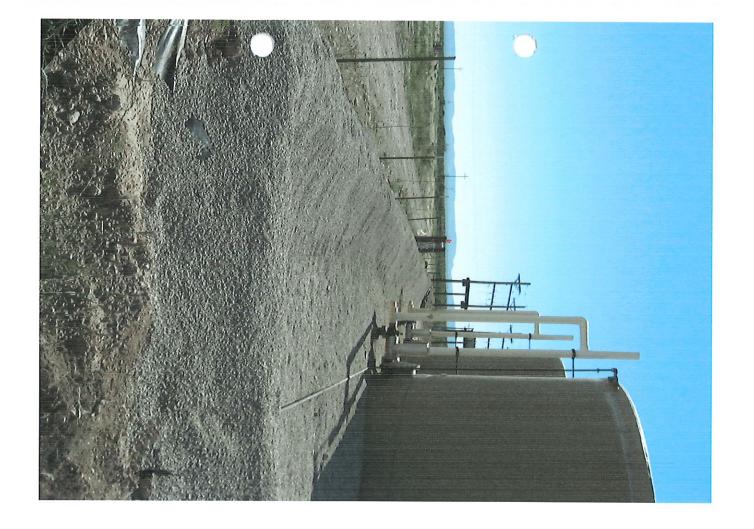


Sawbuen Water Tray





10-3-06



Sawbuck Water Transport

<u> District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

Date: September 22, 2006

Attach Additional Sheets If Necessary

Phone: 505-748-1471

State of New Mexico 223 Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

1220 S. St. Francis Dr., Santa Fe, NM 87505 side of form Release Notification and Correction **OPERATOR** Initial Report Final Report Name of Company OGRID Number Contact YATES PETROLEUM CORPORATION 25575 SHERRY BONHAM Address Telephone No. 105 S. 4TH STREET 505-748-1471 Facility Name **API Number** Facility Type SAWBUCK WATER TRANSFER SWD Surface Owner Mineral Owner Lease No. **FEDERAL FEDERAL** LOCATION OF RELEASE Feet from the North/South Line Feet from the Unit Letter Section Township Range East/West Line County 24E **20S** G 23 **EDDY** Latitude Longitude NATURE OF RELEASE Type of Release Volume of Release Volume Recovered PRODUCED WATER 50 B/PW 47 B/PW Source of Release Date and Hour of Occurrence Date and Hour of Discovery **GUN BARREL RISER** 9/20/06 8:45 AM 9/20/06 8:45 AM Was Immediate Notice Given? If YES, To Whom? Yes No Not Required MIKE BRATCHER By Whom? Date and Hour SHERRY BONHAM 9/20/06 9:00 AM Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* CHECK VALVE FAILURE BLEW 12" VIC CLAMP OFF OF GUN BARREL RISER. SHUT MAIN VALVES. VACUUM TRUCK AND CREW CALLED IN. Describe Area Affected and Cleanup Action Taken.* ALL FLUIDS WERE CONTAINED WITHIN PLASTIC LINED BERMS. STANDING FLUIDS VACUUMED. IMPACTED MATERIALS TO BE REMOVED FROM PLASTIC LINER AND REPLACED. UPON COMPLETION, FINAL C-141 TO BE SUBMITTED. SITE RANKING: 0. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger Released to Imaging: 7/25/2023 10:23:39 At public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. OIL CONSERVATION DIVISION Signature Approved by District Supervisor: Printed Name: Sherry Bonham Title: Environmental Regulatory Agent Approval Date: **Expiration Date:** E-mail Address: sherryb@ypcnm.com Conditions of Approval: Attached

District I 625 N. French Dr., Hobbs, NM 88240 District II 301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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

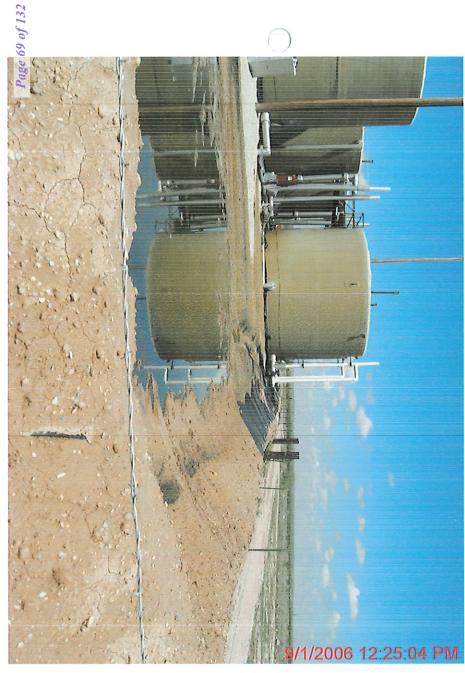
Form C-141 Revised October 10, 2003

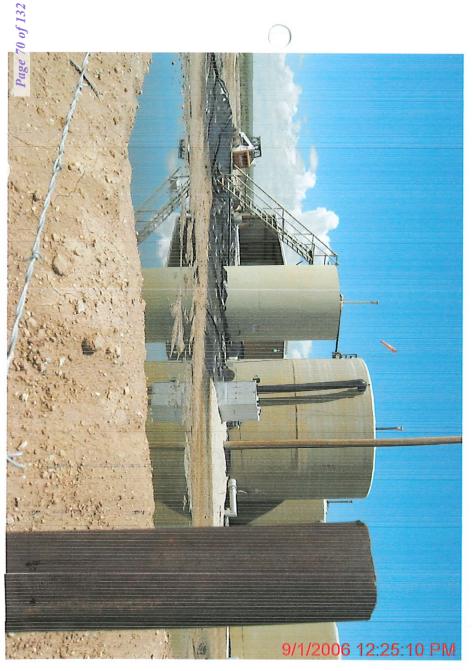
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

			Rele	ease Notific	atio	n and Co	rrective A	ction				
				OF	ERA	ATOR			✓ Initia	l Report	☐ Fi	nal Report
Name of Co YATES PE		M CORPOR	ATION	OGRID Num 25575	ber	Contact SHERRY B	ONHAM					
Address 105 S. 4 TH	STREET				Telephone No. 505-748-1471							
Facility Name API Number SAWBUCK WATER TRANSFER						Facility Type SWD						
Surface Ow FEDERAL	ner			Mineral O FEDERA					Lease 1	No.		
				-		N OF REI	LEASE					
Unit Letter G	Section 23	Township 20S	Range 24E	Feet from the		h/South Line	Feet from the	East/W	Vest Line	County EDDY		
				Latitude		_ Longitude		_				
				NAT	URE	E OF REL	EASE					
PRODUCEI	Type of Release PRODUCED WATER CRUDE OIL						Volume of Release 395 B/PW 5 B/O			Volume Recovered 380 B/PW 4 B/O		
TANK OVE	Source of Release TANK OVERFLOW Was Immediate Notice Given?					8/31/06 1:	Date and Hour of Occurrence 8/31/06 1:00 PM 8/31/06 1:00 PM 8/31/06 1:00 PM					
		×	Yes [No Not Re	equirec	10/10						
By Whom? SHERRY B	ONHAM					Date and F 8/31/06 3:						
Was a Water	rcourse Rea		Yes 🛭	71 No.		If YES, Vo	olume Impacting	the Wate	ercourse.			
N/A		npacted, Descr	ibe Fully.	*		1074						
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Signature	Sheri	Buch	-				D1 1 1 2					
Signature Printed Nan	ne: Sherry B	Sonham				Approved by	District Supervi	sor:				
	onmental Re	egulatory Age	nt			Approval Da	Approval Date:			Expiration Date:		
E-mail Add	ress: sherryl	o@ypcnm.con	n			Conditions of Approval:			Attached			
Date: Septe Attach Add		eris (f Medes:		ca Jes	mi	jer Pal	2ma 9-1-	06 813				









Partick J.
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fc. NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

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Surface Owner Wilbanks Ranch Mineral Owner				Fed			Lease No.				
				LOC	ATTO	N OF RE	LEASE	····	·•		······································
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APPENDIX B – Closure Criteria Research Documentation

	criteria Worksheet e: Sawbuck Water Transfer Station		
	rdinates:	X: 32.562300	Y: -104.556110
	ific Conditions	Value	Unit
1	Depth to Groundwater	<50	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	46,667	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	46,667	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	20,067	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	6,074	feet
	ii) Within 1000 feet of any fresh water well or spring		feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	756	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	High	Critical High Medium Low
10	Within a 100-year Floodplain	500	year
11	Soil Type	Pima silt loam	and Reagan loam
12	Ecological Classification	Loamy and	d Bottomland
13	Geology		Qp
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'





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)

,		,							o , ,		,	,		
	POD Sub-		Q	Q	Q							Depth	Depth	Water
POD Number	Code basin	County	64	16	4	Sec	Tws	Rng	X	Υ	Distance	Well	Water	Column
RA 04742	RA	ED		3	3	13	20S	24E	542408	3603517* 🌍	993	300		
RA 07771	RA	ED	4	1	4	22	20S	24E	540073	3602194* 🎒	1727			
RA 05146	RA	ED		1	2	14	20S	24E	541600	3604734* 🌍	1883	300	80	220
RA 05424	RA	ED	4	2	3	22	20S	24E	539669	3602194* 🌍	2106	1000	400	600
RA 04502	RA	ED		2	2	25	20S	24E	543656	3601480* 🌍	2413	300	268	32
RA 10140	RA	ED	2	1	1	35	20S	24E	540938	3599981* 🎒	2962	295		
RA 10139	RA	ED	3	3	2	21	20S	24E	538285	3602597* 🌍	3394	308		
RA 02775	RA	СН	1	4	3	21	20S	24E	537899	3601986* 🎒	3869	140	31	109
RA 04956	RA	ED		1	1	21	20S	24E	537605	3603101* 🌍	4072	1013		
RA 10618	RA	ED	1	1	4	20	20S	25E	546389	3602414 🌑	4739	342	212	130
RA 05038	RA	ED	1	1	4	20	20S	25E	546390	3602416* 🎒	4740	314	228	86
RA 05057	RA	ED		3	3	31	20S	25E	544071	3598678*	4815	380	312	68
RA 09978	RA	ED	3	1	2	29	20S	25E	546393	3601410* 🌕	4938	350		

Average Depth to Water: 218 feet

Minimum Depth:

31 feet

Maximum Depth: 400 feet

Record Count: 13

UTMNAD83 Radius Search (in meters):

Easting (X): 541670 Northing (Y): 3602852 Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water <u>data</u> from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

• 323341104330401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323341104330401 20S.24E.23.21444

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°33'41", Longitude 104°33'04" NAD27

Land-surface elevation 3,617 feet above NAVD88

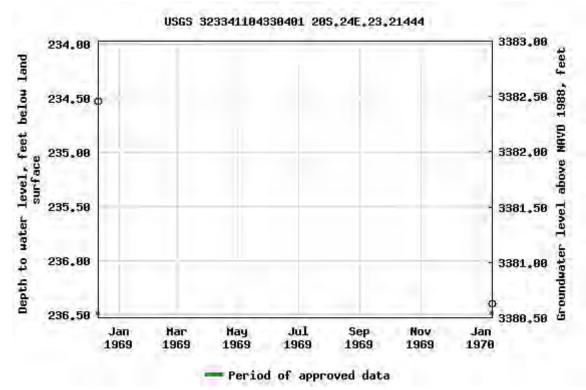
The depth of the well is 272 feet below land surface.

This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility

FOIA

Privacy

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

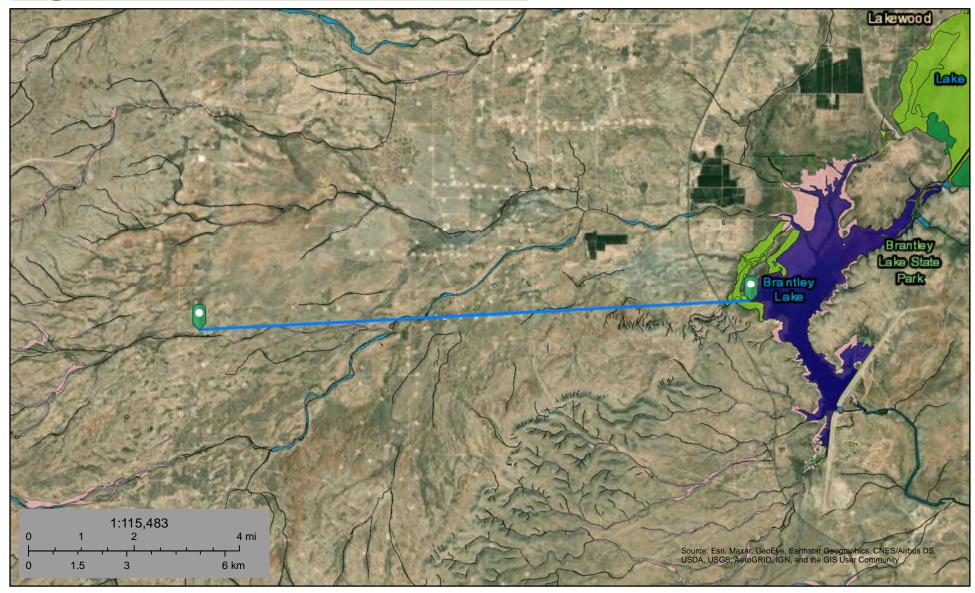
Page Last Modified: 2021-09-13 14:13:21 EDT

0.61 0.51 nadww01



U.S. Fish and Wildlife Service National Wetlands Inventory

Sawbuck Watercourse 46,667ft.



September 11, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

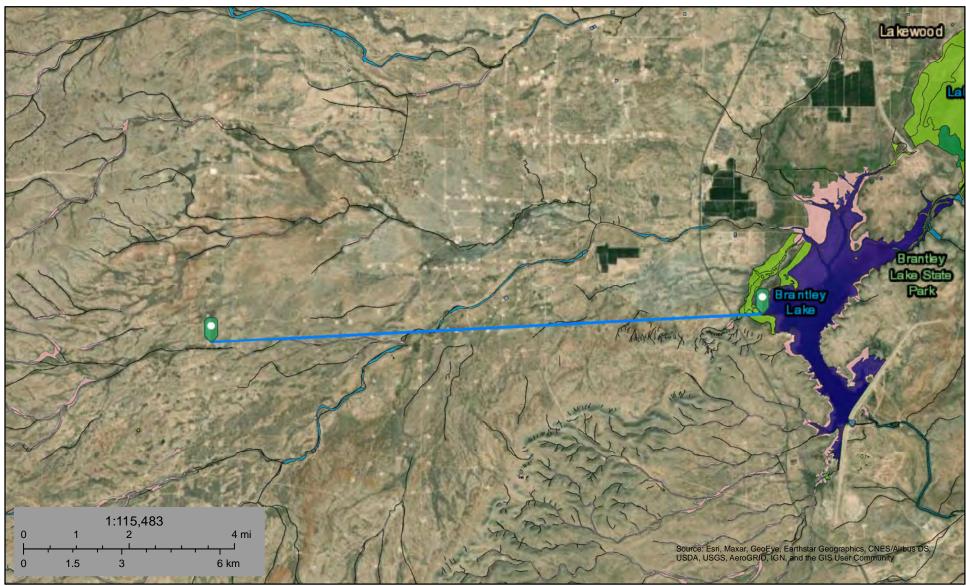
Riverine

Other

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.



Sawbuck Lake 46,667ft.



September 11, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

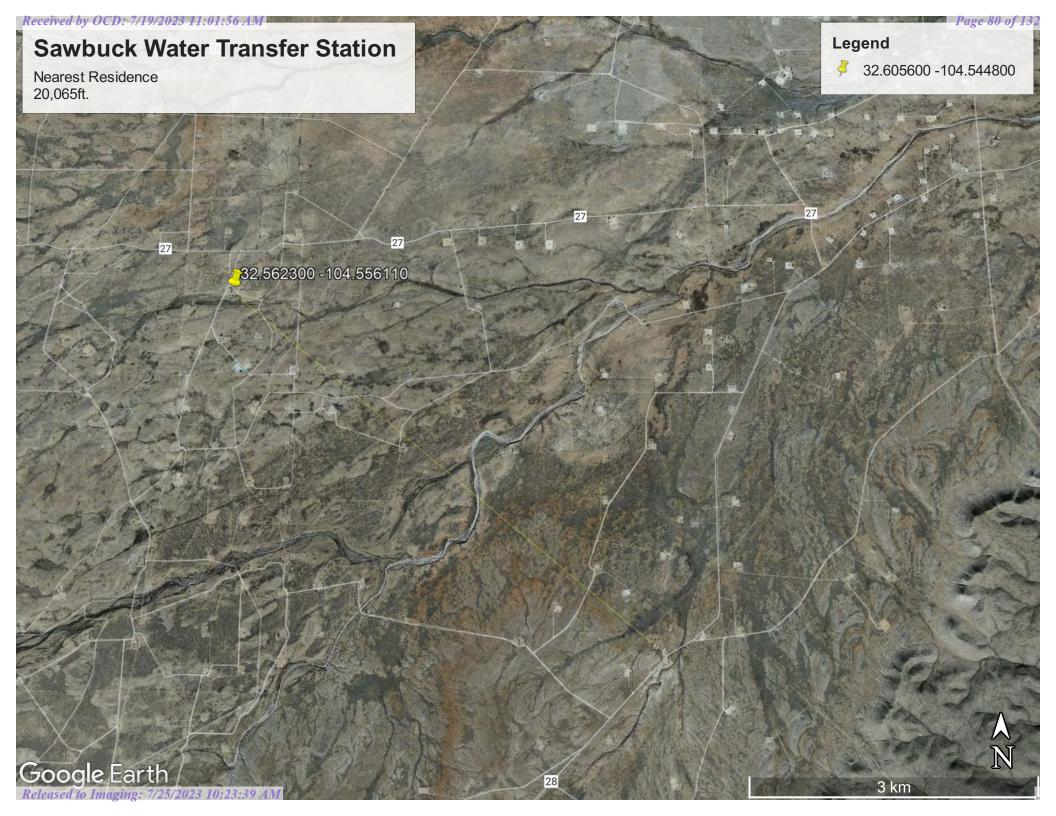
Freshwater Pond

Lake

Riverine

Other

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.



Received by OCD: 7/19/2023 11:01:56 AM Page 81 of 132



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced

and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is closed)

(quarters are smallest to largest) (NAD83 UTM in meters)

	(1 7			o 11.0 11.0 10 0.00000)	(900		0	or to largeo	, ,	/	
	Sub			Well			qqq					
WR File Nbr	basin Use Div	ersion Owner	County POD Number	Tag	Code Grant	Source	6416 4	Sec T	ws Rng	Х	Y	Distance
RA 04820	RA STK	3 LOYD FOSTER	ED <u>RA 04820</u>				3 2	23 20	0S 24E	541596	3602701*	168
RA 04742	RA STK	3 LOYD FOSTER	ED <u>RA 04742</u>			Shallow	3 3	13 20	0S 24E	542408	3603517*	993

Record Count: 2

UTMNAD83 Radius Search (in meters):

(acre ft per annum)

Easting (X): 541670 **Radius: 1610** Northing (Y): 3602852

Sorted by: Distance

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

2 14 20S 24E

541600 3604734*



Driller License: 353

05/17/1968

RA 05146

Driller Company: OSBOURN DRILLING & PUMP CO.

Driller Name:

Drill Start Date: 04/23/1968

Drill Finish Date:

05/06/1968

Plug Date:

Shallow

Log File Date: **Pump Type:**

PCW Rcv Date: Pipe Discharge Size: Source: **Estimated Yield:**

Casing Size:

Depth Well:

300 feet

Depth Water:

80 feet

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.





Sawbuck Wetland 756ft

September 11, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

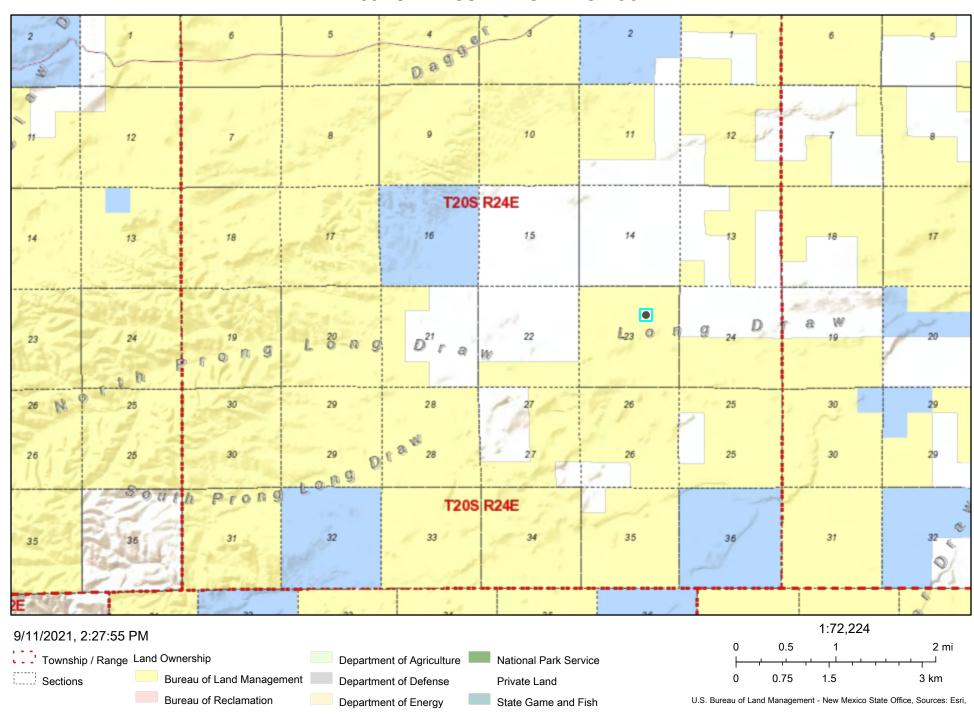
Lake

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.

Active Mines in New Mexico



National Flood Hazard Layer FIRMette



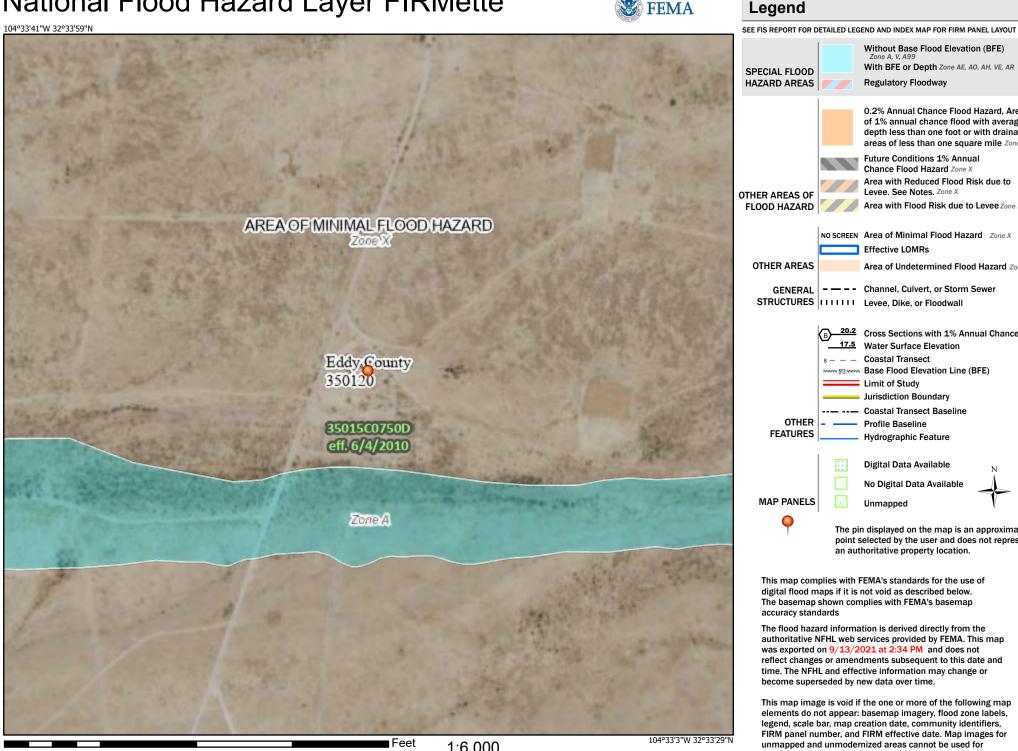


Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLI Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary -- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/13/2021 at 2:34 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



ORelease To Imaging: 7/25/2023 P0.923:39 AM



MAP LEGEND

â

0

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Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

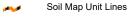
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

+ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PM	Pima silt loam, 0 to 1 percent slopes	1.1	27.1%
RA	Reagan loam, 0 to 3 percent slopes	3.0	72.9%
Totals for Area of Interest	•	4.2	100.0%

Eddy Area, New Mexico

PM—Pima silt loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w56 Elevation: 600 to 4,200 feet

Mean annual precipitation: 8 to 25 inches
Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 195 to 290 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Pima and similar soils: 98 percent Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pima

Setting

Landform: Alluvial fans, alluvial flats, flood plains Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear, convex Across-slope shape: Linear, convex

Parent material: Alluvium

Typical profile

H1 - 0 to 3 inches: silt loam
H2 - 3 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: RareNone

Frequency of flooding: RareNone Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0

mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

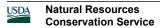
Available water supply, 0 to 60 inches: High (about 11.9 inches)

Interpretive groups

Land capability classification (irrigated): 1 Land capability classification (nonirrigated): 7c

Hydrologic Soil Group: C

Ecological site: R042XC017NM - Bottomland



Hydric soil rating: No

Minor Components

Dev

Percent of map unit: 1 percent

Ecological site: R042XC017NM - Bottomland

Hydric soil rating: No

Reagan

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

Eddy Area, New Mexico

RA—Reagan loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5c Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 14 inches
Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 98 percent *Minor components*: 2 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Alluvial fans, fan remnants Landform position (three-dimensional): Rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to

8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

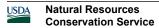
Available water supply, 0 to 60 inches: Moderate (about 8.2

inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B



Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 16, Jun 8, 2020

Functional / Structural Groups Worksheet

State _	N	ΙM	Office	NM	ISO	_ Eco	ological Site	Bottomland	R042	XC017NM
Observers		John Tunbe	erg,					_ _	Date	2/12/10

Functional / Struct	ural Group	s	Species List for Functional / Structural Groups				
Name	Potenti.1.	Actua.2	Plant Names				
Warm season very tall bunchgrass	D		Big Sacaton				
warm season mid height stolon gr	D		Tobosagrass				
warm season tall bunchgrass	D		Alkali Sacaton				
warm season low stolon grass	D		Vine Mesquite, Plains Bristlegrass				
Warm season mid bunchgrass	S		Cane bluestem, white tridens, false rhodesgrass				
salt tolerant shrub	S		Fourwing saltbush				
deciduous shrub legume	M		honey mesquite				
drought tolerant shrubs	M		Apache plume, american tarwort, littleleaf sumac				
Forbs	M		Coyote gourd, common sunflower, pepperweed, globemallow				
Biological Crust							

Indicate whether each "structural/functional group" is a Dominant (D) (roughly 40-100% composition), a Subdominant (S) (roughly 11-40%) composition) a Minor Component (M) (3-11% composition), or a Trace Component (T) (<3% composition) based on weight or cover composition in the area of interest (e.g., "Actual" column) relative to the "Potential" column derived from information found in the ecological site/description and/or at the ecological reference area.

Biological Crust3 dominance is evaluated solely on **cover** not composition by weight.

Ecological Reference Worksheet

Author(s) /	participant(s):	John Tunberg,

Contact for lead author: 505-761-4488 Reference site used? Yes/No No

Date: 2/12/2010 **MLRA:** 42.3 **Ecological Site:** Loamy This <u>must</u> be verified based on soils and climate (see Ecological Site Description). Current plant community *cannot* be used to identify the ecological site.

<u>Indicators:</u> For each indicator, describe the potential for the site. Where possible, (1) use numbers, (2) include expected range of values for above and below average years for <u>each</u> community within the reference state, when appropriate & (3) site data. Continue description on separate sheet.

1. Number and extent of rills There should not be any rills.

After wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances rills may double in number on steeper slopes at the margins of this site after high-intensity summer thunderstorms. Any rills formed should not be long lived or interconnected and should heal rapidly.

2. Presence of water flow patterns: There can be evidence of sheet flow.

There can be a few flow patterns that should be short and discontinuous. There can be some sheet flow. Water flow patterns should only be present following intense storm events on upper slope limits at the margins of this site. Numerous obstructions alter flow paths. Flow pattern length and numbers may double after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances.

- 3. Number and height of erosional pedestals or terracettes: Pedestals should be rare. Terracettes can occure and should be discontinuous. There can be a few pedestals that should be less than 1 inch high. Terracettes can be common and should be discontinuous. If present plant or rock pedestals and terracettes are almost always in flow patterns. Wind caused pedestals are rare and only would be on the site following after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. These would show signs of healing within 1 year after event.
- 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground can make up to 50% of the ground cover on this site according to the ESD. Bare patch size should be small.
- 5. Number of gullies and erosion associated with gullies:

Gullies and erosion associated with gullies should be rare are infrequent. Typically, gullies if present will only follow the micro topography. Natural drainages with little to no active cutting are common on this site. There should not be any accelerated erosion. After high-intensity summer thunderstorms or after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances then gully formation would be accelerated for a year or two. Evidence of healing within 1 year of event and continuing after that.

6. Extent of wind scoured, blowouts and/or depositional area

There should not be any wind scoured, blowouts and/or depositional areas. However there can be potential for depositional areas. Wind erosion is minimal when the site is in a well vegetated condition. Significant wind erosion would only be present following high-intensity summer thunderstorms, after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. After rain events, exposed soil surfaces form physical crusts that tend to reduce wind erosion. Deposition from off site sources can be common on this site and is in fact a primary soil forming process. This site is succeptable to wind erosion when vegetation is removed or significantly decreased.

7. Amount of litter movement (describe size and distance expected to travel):

Litter should be small (less than "1 in diameter) and its movement should be minimal. This site has adequate vegetation to stop litter movement after short distances. Most of the litter movement on this site will be litter that has been transported onto the site from adjacent sites. Litter produced on this site stays on the site and only travels short distances.

8. Soil surface (top few mm) resistance to erosion (stability) values are averages - most sites will show a range of values for both plant canopy and interspaces, if different):

This site can be susceptible to alluvial erosion. Stability values are estimated to be 1-2 in interspaces and 3-5 at bases of vegetation. This would

9. Soil surface structures and SOM content (include type and strength of structure, and A-horizon color and thickness for both plant canopy and interspaces, if different):

The SOM content should be less than 1%. A--0 to 6 inches; grayish brown (10YR 5/2) loam, dark grayish brown (10YR 4/2) moist; weak fine subangular blocky structure; hard, friable, slightly sticky; surface 1/2 to 2 inches has weak thin to medium platy structure; common very fine and fine pores; common very fine, fine and medium roots; strongly calcareous; slightly alkaline (pH 7.6); clear smooth boundary. (4 to 8 inches thick)

10. Effect of plant community composition (relative proportion of different functional groups) & spatial distribution on infiltration & runoff:

Overall, infiltration rates should be slow for this site but can be higher around bases of grasses than in interspaces and around bases of shrubs. The soils of this site are deep to moderately deep. The moderately deep soils have either a petrocalcic, petrogypsic or gypsum horizon between 30 and 40 inches. Surface textures are loam, silt loam, very fine sandy loam, or clay loam. Substratum textures are loam, silty clay loam, clay loam, or silt loams. Subsoil textures are silt loam, clay loam silty clay loam, gravelly loam, gravelly clay loam or very gravelly loam. Permeability is moderate to slow and the available water holding capacity is high to moderate.

11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken f	for
	compaction):	

There should not be any compaction layers on this site. There are soil profile features in the top 9 inches of the soil profile that would be mistaken for a management induced soil compaction layer. Management induced compaction layers will be more difficult to penetrate than clay lenses.

12. Functional/Structural Groups (list in order of descending dominance by above-ground weight using symbols: indicate much greater than (>>), greater than (>), and equal to (=):

black grama >> tobosa > C 4 bunch grasses (dropseeds) > C4 midgrasses (threeawns) >= soaptree yucca, ephedra, fourwing saltbush >= forbs (croton, desert marigold, globemallow, > broom snakeweed, prickly pear, = other forbs.

- 13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Black grama and bunchgrasses can show decadence in centers of plants.
- 14. Average percent litter cover (______%) and depth (______inches).

 Average 15% cover and 0.75 inch deep. (As per ESD)
- 15. Expected annual production (this is TOTAL above-ground production, not just forage production):

(Low Production 650 lbs./ac.) (Average RV Production 925 lbs./ac.) (High Production 1200 lbs./ac.) After wildfires, high herbivore impacts, extended drought, or combinations of these disturbances, can cause production to be significantly reduced (100-200 lbs per ac. the first growing season following a wildfire) and recover slowly under below average precipitation regimes.

16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, "can, and often do, continue to increase regardless of the management of the site and may eventually dominate

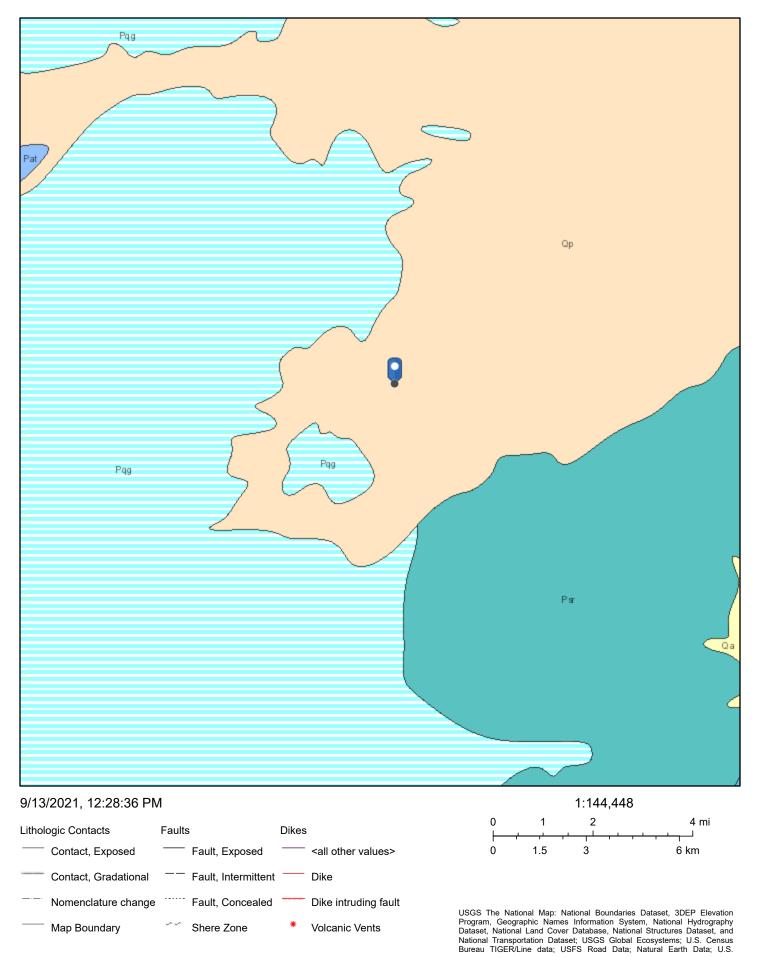
Tarbush, creosote and mesquite can be invaders to this site. Invasive plants should not occur in reference plant community. However, lovegrass, Russian thistle, kochia, and other nonnative annuals may initially invade following extended disturbance. Mesquite and tarbush and creosote and lovegrass are the greatest threat to dominate this site in the long term after disturbance (primarily following wildfire exclusion but also includes high human or herbivore impacts and extended drought). Mesquite and tarbush and creosote and lovegrass are most likely to retain dominance if allowed to alter natural fire regime (this alteration may require poor land management combined with years of wet winterspring; dry summer-fall conditions). Any of these invaded communities represent a departure from the reference state.

17. Perennial plant reproductive capability:

Black grama reproduces by seed sporadically and reproduction by tiller and stolon can be common. The C4 midgrasses should have high reproductive potential and rapidly recover from drought in the absence of additional stresses (grazing).

	Photograph	ı (s)		
MLRA :			Date:	
Ecological Site:				
Photo # 1				
Comments:				
Photo # 2				
Comments:				
Comments:				

Sawbuck Water Transfer Station



APPENDIX C – Daily Field Report



6/5/2023 Client: EOG Resources Inc. Inspection Date: 6/5/2023 5:27 PM Sawbuck Water Transfer Report Run Date: Site Location Name: Chase Settle API#: Client Contact Name: Client Contact Phone #: 575-703-6537 Unique Project ID Project Owner: Project Reference # Project Manager: **Summary of Times** 6/5/2023 9:30 AM Arrived at Site **Departed Site** 6/5/2023 12:00 PM

Field Notes

11:23 Arrived on site and filled out safety paperwork.

11:23 Collected and field screened samples BH23-03 through BH23-05 at 1'.

Next Steps & Recommendations

1



Site Photos



Sample collection area.



Sample collection area.



Sample collection area.



Sample collection area.







Daily Site Visit Signature

Inspector: Hunter Klein

Signature:

APPENDIX D – Notification

From: <u>Tina Huerta</u>

To: ocd.enviro@emnrd.nm.gov; blm_nm_cfo_spill@blm.gov
Cc: Artesia S&E_Spill_Remediation; Artesia Regulatory

Subject: Sawbuck Water Transfer (nJMW1317031601 (2RP-1685), nJMW1327753065 (2RP-1973), nKMW0800954755,

nKMW0800954324, nMLB0608954436, nKMW0800954709) Sampling Notification

Date: May 30, 2023 4:44:29 PM

Attachments: <u>image001.png</u>

Good afternoon,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Sawbuck Water Transfer G-23-20S-24E Eddy County, NM nJMW1317031601 (2RP-1685), nJMW1327753065 (2RP-1973), nKMW0800954755, nKMW0800954324, nMLB0608954436, nKMW0800954709

Sampling will begin at 9:00 a.m. on Thursday, June 1, 2023, and continue through Wednesday, June 7, 2023.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121

Email: tina huerta@eogresources.com



Artesia Division

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms



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

OrderNo.: 2306177

June 13, 2023

Chance Dixon
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220

FAX:

RE: Sawbuck Water Transfer

Dear Chance Dixon:

TEL: (505) 506-0040

Hall Environmental Analysis Laboratory received 8 sample(s) on 6/6/2023 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Separate Incident - Past Closure Report

Analytical ReportLab Order **2306177**

Date Reported: 6/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 0'

 Project:
 Sawbuck Water Transfer
 Collection Date: 6/2/2023 9:25:00 AM

 Lab ID:
 2306177-001
 Matrix: SOIL
 Received Date: 6/6/2023 8:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/7/2023 7:04:49 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/7/2023 7:04:49 PM
Surr: DNOP	92.8	69-147	%Rec	1	6/7/2023 7:04:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/10/2023 8:24:21 AM
Surr: BFB	97.7	15-244	%Rec	1	6/10/2023 8:24:21 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	6/10/2023 8:24:21 AM
Toluene	ND	0.048	mg/Kg	1	6/10/2023 8:24:21 AM
Ethylbenzene	ND	0.048	mg/Kg	1	6/10/2023 8:24:21 AM
Xylenes, Total	ND	0.095	mg/Kg	1	6/10/2023 8:24:21 AM
Surr: 4-Bromofluorobenzene	90.8	39.1-146	%Rec	1	6/10/2023 8:24:21 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	140	60	mg/Kg	20	6/8/2023 3:42:19 PM

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 1 of 12

Date Reported: 6/13/2023

Separate Incident - Past Closure Report Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-02 1'

Project: Sawbuck Water Transfer **Collection Date:** 6/2/2023 9:30:00 AM 2306177-002 Lab ID: Matrix: SOIL Received Date: 6/6/2023 8:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	16	9.8	mg/Kg	1	6/7/2023 7:15:49 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/7/2023 7:15:49 PM
Surr: DNOP	92.5	69-147	%Rec	1	6/7/2023 7:15:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/10/2023 9:34:42 AM
Surr: BFB	99.7	15-244	%Rec	1	6/10/2023 9:34:42 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	6/10/2023 9:34:42 AM
Toluene	ND	0.048	mg/Kg	1	6/10/2023 9:34:42 AM
Ethylbenzene	ND	0.048	mg/Kg	1	6/10/2023 9:34:42 AM
Xylenes, Total	ND	0.097	mg/Kg	1	6/10/2023 9:34:42 AM
Surr: 4-Bromofluorobenzene	92.4	39.1-146	%Rec	1	6/10/2023 9:34:42 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/8/2023 3:54:43 PM

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

 PQL Practical Quanitative Limit

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

Analyte detected in the associated Method Blank

Ε Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 2 of 12

Date Reported: 6/13/2023

Separate Incident - Past Closure Report Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-02 2'

Project: Sawbuck Water Transfer **Collection Date:** 6/2/2023 9:35:00 AM Lab ID: 2306177-003 Matrix: SOIL Received Date: 6/6/2023 8:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: PRD
Diesel Range Organics (DRO)	10	9.4	mg/Kg	1	6/7/2023 7:37:41 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	6/7/2023 7:37:41 PM
Surr: DNOP	98.3	69-147	%Rec	1	6/7/2023 7:37:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/10/2023 10:45:13 AM
Surr: BFB	98.1	15-244	%Rec	1	6/10/2023 10:45:13 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	6/10/2023 10:45:13 AM
Toluene	ND	0.047	mg/Kg	1	6/10/2023 10:45:13 AM
Ethylbenzene	ND	0.047	mg/Kg	1	6/10/2023 10:45:13 AM
Xylenes, Total	ND	0.093	mg/Kg	1	6/10/2023 10:45:13 AM
Surr: 4-Bromofluorobenzene	92.4	39.1-146	%Rec	1	6/10/2023 10:45:13 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/8/2023 4:07:08 PM

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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Ε Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 3 of 12

Date Reported: 6/13/2023

Separate Incident - Past Closure Report Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-02 3'

Project: Sawbuck Water Transfer **Collection Date:** 6/2/2023 9:40:00 AM 2306177-004 Lab ID: Matrix: SOIL Received Date: 6/6/2023 8:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: PRD
Diesel Range Organics (DRO)	9.6	8.9	mg/Kg	1	6/7/2023 7:59:26 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/7/2023 7:59:26 PM
Surr: DNOP	101	69-147	%Rec	1	6/7/2023 7:59:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/10/2023 11:08:46 AM
Surr: BFB	98.0	15-244	%Rec	1	6/10/2023 11:08:46 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	6/10/2023 11:08:46 AM
Toluene	ND	0.049	mg/Kg	1	6/10/2023 11:08:46 AM
Ethylbenzene	ND	0.049	mg/Kg	1	6/10/2023 11:08:46 AM
Xylenes, Total	ND	0.097	mg/Kg	1	6/10/2023 11:08:46 AM
Surr: 4-Bromofluorobenzene	91.2	39.1-146	%Rec	1	6/10/2023 11:08:46 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/8/2023 4:19:32 PM

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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Ε Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 4 of 12

Separate Incident - Past Closure Report Hall Environmental Analysis Laboratory, Inc.

Analytical Report Lab Order 2306177

Date Reported: 6/13/2023

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-02 4'

Project: Sawbuck Water Transfer **Collection Date:** 6/2/2023 9:45:00 AM Lab ID: 2306177-005 Matrix: SOIL Received Date: 6/6/2023 8:35:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	13	9.7	mg/Kg	1	6/7/2023 8:21:10 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/7/2023 8:21:10 PM
Surr: DNOP	88.6	69-147	%Rec	1	6/7/2023 8:21:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/10/2023 11:32:14 AM
Surr: BFB	97.4	15-244	%Rec	1	6/10/2023 11:32:14 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	6/10/2023 11:32:14 AM
Toluene	ND	0.050	mg/Kg	1	6/10/2023 11:32:14 AM
Ethylbenzene	ND	0.050	mg/Kg	1	6/10/2023 11:32:14 AM
Xylenes, Total	ND	0.099	mg/Kg	1	6/10/2023 11:32:14 AM
Surr: 4-Bromofluorobenzene	91.3	39.1-146	%Rec	1	6/10/2023 11:32:14 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/8/2023 4:31:57 PM

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
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Ε Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 5 of 12

Date Reported: 6/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-03 0^o

 Project:
 Sawbuck Water Transfer
 Collection Date: 6/2/2023 9:50:00 AM

 Lab ID:
 2306177-006
 Matrix: SOIL
 Received Date: 6/6/2023 8:35:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 6/7/2023 8:42:52 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 6/7/2023 8:42:52 PM Surr: DNOP 89.8 69-147 %Rec 1 6/7/2023 8:42:52 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 6/10/2023 11:55:41 AM 4.8 mg/Kg 1 Surr: BFB 98.3 15-244 %Rec 1 6/10/2023 11:55:41 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 6/10/2023 11:55:41 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 6/10/2023 11:55:41 AM Ethylbenzene ND 0.048 mg/Kg 1 6/10/2023 11:55:41 AM Xylenes, Total ND 0.097 mg/Kg 1 6/10/2023 11:55:41 AM Surr: 4-Bromofluorobenzene 92.7 39.1-146 %Rec 1 6/10/2023 11:55:41 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT mg/Kg Chloride 6/8/2023 5:09:11 PM ND 60 20

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

QL 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 6 of 12

Date Reported: 6/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-04 0'

 Project:
 Sawbuck Water Transfer
 Collection Date: 6/2/2023 9:55:00 AM

 Lab ID:
 2306177-007
 Matrix: SOIL
 Received Date: 6/6/2023 8:35:00 AM

Analyses	Result	DI Ou	al Units	DF	Date Analyzed
Analyses	Result	KL Qu	ai Umis	DI	Date Allaryzeu
EPA METHOD 8015M/D: DIESEL RANGE OR	SANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	6/7/2023 8:53:44 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/7/2023 8:53:44 PM
Surr: DNOP	90.4	69-147	%Rec	1	6/7/2023 8:53:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/10/2023 12:19:11 PM
Surr: BFB	98.9	15-244	%Rec	1	6/10/2023 12:19:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	6/10/2023 12:19:11 PM
Toluene	ND	0.047	mg/Kg	1	6/10/2023 12:19:11 PM
Ethylbenzene	ND	0.047	mg/Kg	1	6/10/2023 12:19:11 PM
Xylenes, Total	ND	0.095	mg/Kg	1	6/10/2023 12:19:11 PM
Surr: 4-Bromofluorobenzene	93.4	39.1-146	%Rec	1	6/10/2023 12:19:11 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/8/2023 5:21:36 PM

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

ple pH Not In Range Page 7 of 12

Date Reported: 6/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-05 0'

 Project:
 Sawbuck Water Transfer
 Collection Date: 6/2/2023 10:00:00 AM

 Lab ID:
 2306177-008
 Matrix: SOIL
 Received Date: 6/6/2023 8:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/7/2023 9:04:39 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/7/2023 9:04:39 PM
Surr: DNOP	91.6	69-147	%Rec	1	6/7/2023 9:04:39 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	6.8	4.8	mg/Kg	1	6/10/2023 12:42:43 PM
Surr: BFB	109	15-244	%Rec	1	6/10/2023 12:42:43 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	0.028	0.024	mg/Kg	1	6/10/2023 12:42:43 PM
Toluene	0.17	0.048	mg/Kg	1	6/10/2023 12:42:43 PM
Ethylbenzene	0.061	0.048	mg/Kg	1	6/10/2023 12:42:43 PM
Xylenes, Total	0.46	0.096	mg/Kg	1	6/10/2023 12:42:43 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146	%Rec	1	6/10/2023 12:42:43 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/8/2023 5:34:01 PM

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

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Hall Environmental Analysis Laboratory, Inc.

2306177 13-Jun-23

WO#:

Client: Vertex Resources Services, Inc.

Project: Sawbuck Water Transfer

Sample ID: MB-75461 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75461 RunNo: 97318

Prep Date: 6/8/2023 Analysis Date: 6/8/2023 SeqNo: 3535350 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-75461 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75461 RunNo: 97318

Prep Date: 6/8/2023 Analysis Date: 6/8/2023 SeqNo: 3535352 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306177**

13-Jun-23

	ex Resources Services, Inc. ouck Water Transfer							
Sample ID: LCS-75370	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 75370	RunNo: 97270						
Prep Date: 6/6/2023	Analysis Date: 6/7/2023	SeqNo: 3533132 Units: %Rec						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Surr: DNOP	5.4 5.000	108 69 147						
Sample ID: LCS-75399	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 75399	RunNo: 97270						
Prep Date: 6/6/2023	Analysis Date: 6/7/2023	SeqNo: 3533133 Units: %Rec						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Surr: DNOP	4.3 5.000	86.4 69 147						
Sample ID: LCS-75406	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 75406	RunNo: 97270						
Prep Date: 6/7/2023	Analysis Date: 6/7/2023	SeqNo: 3533134 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Diesel Range Organics (DRO)	48 10 50.00	0 95.2 61.9 130						
Surr: DNOP	4.7 5.000	93.1 69 147						
Sample ID: MB-75370	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 75370	RunNo: 97270						
Prep Date: 6/6/2023	Analysis Date: 6/7/2023	SeqNo: 3533136 Units: %Rec						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Surr: DNOP	11 10.00	109 69 147						
Sample ID: MB-75399	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 75399	RunNo: 97270						
Prep Date: 6/6/2023	Analysis Date: 6/7/2023	SeqNo: 3533137 Units: %Rec						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Surr: DNOP	9.6 10.00	96.3 69 147						
Sample ID: MB-75406	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 75406	RunNo: 97270						
Prep Date: 6/7/2023	Analysis Date: 6/7/2023	SeqNo: 3533138 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 Surr: DNOP) ND 50 9.5 10.00	95.3 69 147						
Suit. DINOP	9.5 10.00	33.3 03 141						

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

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Hall Environmental Analysis Laboratory, Inc.

SampType: MSD

2306177 13-Jun-23

WO#:

Client: Vertex Resources Services, Inc.

Project: Sawbuck Water Transfer

Sample ID: Ics-75393	SampType: LCS TestCode: EPA Method 8						8015D: Gaso	line Range		
Client ID: LCSS	Batch	n ID: 75	393	F	RunNo: 9	7323				
Prep Date: 6/6/2023	Analysis D	Date: 6/	10/2023		SeqNo: 3	537032	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.4	70	130			
Surr: BFB	1900		1000		192	15	244			
Sample ID: mb-75393	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batch	n ID: 75	393	F	RunNo: 9	7323				
Prep Date: 6/6/2023	Analysis D	Date: 6/	10/2023		SeqNo: 3	537034	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	960		1000		95.8	15	244			
Sample ID: 2306177-001ams	SampT	уре: М	5	Tes	tCode: El	PA Method	8015D: Gaso	line Range		
Client ID: BH23-02 0'	Batch	n ID: 75	393	F	RunNo: 9	7323				
Prep Date: 6/6/2023	Analysis D	Date: 6/	10/2023		SeqNo: 3	537047	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.95	0	93.2	70	130	•		
Surr: BFB	1900		957.9		201	15	244			

Client ID: BH23-02 0' Prep Date: 6/6/2023	Batc Analysis [h ID: 75 ; Date: 6 /			RunNo: 9 7 SeqNo: 3 5		Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.04	0	95.0	70	130	2.30	20	
Surr: BFB	2000		961.5		203	15	244	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Sample ID: 2306177-001amsd

- 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

TestCode: EPA Method 8015D: Gasoline Range

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306177**

13-Jun-23

Client: Vertex Resources Services, Inc.

Project: Sawbuck Water Transfer

Sample ID: LCS-75393	SampType: LCS TestCode: EPA Method 8						8021B: Volati	iles			
Client ID: LCSS	Batcl	Batch ID: 75393 RunNo: 97323									
Prep Date: 6/6/2023	Analysis [Date: 6/ 1	10/2023	5	SeqNo: 3	537094	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.91	0.025	1.000	0	91.1	70	130				
Toluene	0.90	0.050	1.000	0	90.5	70	130				
Ethylbenzene	0.89	0.050	1.000	0	88.8	70	130				
Xylenes, Total	2.7	0.10	3.000	0	90.0	70	130				
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	39.1	146				

Sample ID: mb-75393	Samp1	уре: МЕ	BLK	Tes	tCode: Ef	PA Method	8021B: Volati	les			
Client ID: PBS	Batch	n ID: 75 3	75393 RunNo: 97323								
Prep Date: 6/6/2023	Analysis D	oate: 6/	10/2023	5	SeqNo: 3	537096	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	0.90		1.000		89.7	39.1	146				

Sample ID: 2306177-002ams	Samp ⁻	Туре: МЅ	5	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID: BH23-02 1'	Batc	h ID: 75 3	393	F	RunNo: 9	7323				
Prep Date: 6/6/2023	Analysis [Date: 6/	10/2023	5	SeqNo: 3	537107	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9709	0	90.7	70	130			
Toluene	0.88	0.049	0.9709	0	90.9	70	130			
Ethylbenzene	0.89	0.049	0.9709	0	91.4	70	130			
Xylenes, Total	2.7	0.097	2.913	0	91.6	70	130			
Surr: 4-Bromofluorobenzene	0.92		0.9709		94.8	39.1	146			

Sample ID: 2306177-002amsd	Samp1	Гуре: МЅ	D	Tes						
Client ID: BH23-02 1'	Batcl	h ID: 75 3	93	F	RunNo: 97					
Prep Date: 6/6/2023	Analysis [Date: 6/	10/2023	5	SeqNo: 3	537108	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9737	0	90.5	70	130	0.137	20	
Toluene	0.89	0.049	0.9737	0	91.8	70	130	1.28	20	
Ethylbenzene	0.89	0.049	0.9737	0	91.1	70	130	0.103	20	
Xylenes, Total	2.7	0.097	2.921	0	92.2	70	130	0.941	20	
Surr: 4-Bromofluorobenzene	0.93		0.9737		95.2	39.1	146	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

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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: 7/25/2023 10:23:39 AM

	ertex Resources ervices, Inc.	Work Order Number	er: 230617 7		RcptNo: 1
Received By: J	loseph Alderette	6/6/2023 8:35:00 AN	i	J. 7.	
Completed By: T	racy Casarrubias	6/6/2023 8:48:47 AN	I		
Reviewed By:	N 6-6-23				
Chain of Custoe	dy				
1. Is Chain of Custo			Yes 🗌	No 🗹	Not Present
2. How was the sar	mple delivered?		Courier		
<u>Log In</u>					
	made to cool the sample	es?	Yes 🔽	No 🗌	NA 🗆
4. Were all samples	received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆
5. Sample(s) in prop	per container(s)?		Yes 🗹	No 🗌	
6. Sufficient sample	volume for indicated tes	st(s)?	Yes 🗸	No 🗌	
7. Are samples (exc	ept VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌	
8. Was preservative	added to bottles?		Yes 🗌	No 🗹	NA 🗆
9. Received at least	1 vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	na 🗹
10. Were any sample	e containers received br	oken?	Yes	No 🗹	# of preserved
11. Does paperwork i	match bottle labels?		Yes 🔽	No 🗆	bottles checked for pH:
•	es on chain of custody)				(<2 or >12 unless noted
	ectly identified on Chain	*	Yes ✓	No 📙	Adjusted?
	alyses were requested? imes able to be met?		Yes ✓	No 📙	enecked by: 106/6/
	omer for authorization.)		Yes 🗸	No [_]	checked by. 2 1/10/6/
Special Handling	(if applicable)				
15. Was client notifie	ed of all discrepancies w	ith this order?	Yes 🗌	No 🗌	NA 🗹
Person Not	tified:	Date:			
By Whom:	The state of the s	Via:	eMail F	Phone 🔲 Fax	☐ In Person
Regarding:	and the same of th	TA TOTAL CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR			
Client Instr	uctions: Mailing addres	ss, phone number and Ema	ail are missing o	n COC- TMC 6/6	5/23
16. Additional remar	ks:				
17. Cooler Informa	tion				
	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By	
1 5.	.8 Good	Yes Morty			

A FINANCIAL MANAGEMENT	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	*OS	PCB's	S808\ (1.≯0 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	See	edhoe 83° Mel r, N OA)	TEX) 1081 Pe 108 (Me 108 (M												Remarks: CC: 4-014 5:0412 vartex	Nivet Rill 606	
Turn-Around Time:	-E-Standard Z Rush 5 00M	Project Name:		Project #:	225-00/23-03	Project Manager:	Chance Dixon	Sampler: Hunter Killin	plane.	Cooler Tempinatale Cry: 5.7 +0.1 x S. (°C)	Container Preservative HEAL No.	$\overline{}$		E In	cid	en	200-	Pas	800	osu	re]	Rep	Via:	My 1/23	Received by: VIs: Date Time COVITY 66.23 8:35
Chain-of-Custody Record			Mailing Address: On File		Phone #:	Fax#:	DA/QC Package: □ Standard □ Level 4 (Full Validation)	n: Az Compliance	Constant of the constant of th		O Company	,0	3423-02			9:45 RHZR-02 UI	9:50 8423-03 0'	6:55 8423-04 0'	O				Relinquished by:	עמייים איפוני	Parties Time: Relinquished by:



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

June 19, 2023

Chance Dixon
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Sawbuck OrderNo.: 2306399

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/8/2023 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

Date Reported: 6/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: BH23-03 1'

 Project:
 Sawbuck
 Collection Date: 6/5/2023 10:00:00 AM

 Lab ID:
 2306399-001
 Matrix: SOIL
 Received Date: 6/8/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	6/14/2023 7:15:44 PM 75594
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/10/2023 12:37:14 AM 75498
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/10/2023 12:37:14 AM 75498
Surr: DNOP	98.4	69-147	%Rec	1	6/10/2023 12:37:14 AM 75498
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/14/2023 12:15:00 AM 75478
Surr: BFB	95.4	15-244	%Rec	1	6/14/2023 12:15:00 AM 75478
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	6/14/2023 12:15:00 AM 75478
Toluene	ND	0.050	mg/Kg	1	6/14/2023 12:15:00 AM 75478
Ethylbenzene	ND	0.050	mg/Kg	1	6/14/2023 12:15:00 AM 75478
Xylenes, Total	ND	0.10	mg/Kg	1	6/14/2023 12:15:00 AM 75478
Surr: 4-Bromofluorobenzene	90.8	39.1-146	%Rec	1	6/14/2023 12:15:00 AM 75478

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 1 of 7

Date Reported: 6/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: BH23-04 1'

 Project:
 Sawbuck
 Collection Date: 6/5/2023 10:05:00 AM

 Lab ID:
 2306399-002
 Matrix: SOIL
 Received Date: 6/8/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Bate	ch
EPA METHOD 300.0: ANIONS					Analyst: SNS	s
Chloride	ND	61	mg/Kg	20	6/14/2023 7:52:47 PM 7559	94
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGI	Н
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/10/2023 12:48:09 AM 7549	98
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/10/2023 12:48:09 AM 7549	98
Surr: DNOP	85.9	69-147	%Rec	1	6/10/2023 12:48:09 AM 7549	98
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KM I	N
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/14/2023 12:37:00 AM 7547	78
Surr: BFB	94.7	15-244	%Rec	1	6/14/2023 12:37:00 AM 7547	78
EPA METHOD 8021B: VOLATILES					Analyst: KM I	N
Benzene	ND	0.024	mg/Kg	1	6/14/2023 12:37:00 AM 7547	78
Toluene	ND	0.048	mg/Kg	1	6/14/2023 12:37:00 AM 7547	78
Ethylbenzene	ND	0.048	mg/Kg	1	6/14/2023 12:37:00 AM 7547	78
Xylenes, Total	ND	0.097	mg/Kg	1	6/14/2023 12:37:00 AM 7547	78
Surr: 4-Bromofluorobenzene	92.0	39.1-146	%Rec	1	6/14/2023 12:37:00 AM 7547	78

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 2 of 7

Date Reported: 6/19/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Client Sample ID: BH23-05 1'

 Project:
 Sawbuck
 Collection Date: 6/5/2023 10:10:00 AM

 Lab ID:
 2306399-003
 Matrix: SOIL
 Received Date: 6/8/2023 7:35:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batc
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	6/14/2023 8:05:08 PM 7559
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	6/10/2023 12:59:03 AM 7549
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/10/2023 12:59:03 AM 7549
Surr: DNOP	90.4	69-147	%Rec	1	6/10/2023 12:59:03 AM 7549
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/14/2023 12:58:00 AM 75478
Surr: BFB	100	15-244	%Rec	1	6/14/2023 12:58:00 AM 7547
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	6/14/2023 12:58:00 AM 75478
Toluene	ND	0.048	mg/Kg	1	6/14/2023 12:58:00 AM 7547
Ethylbenzene	ND	0.048	mg/Kg	1	6/14/2023 12:58:00 AM 7547
Xylenes, Total	ND	0.096	mg/Kg	1	6/14/2023 12:58:00 AM 7547
Surr: 4-Bromofluorobenzene	93.7	39.1-146	%Rec	1	6/14/2023 12:58:00 AM 7547

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 3 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 2306399

19-Jun-23

Client: EOG **Project:** Sawbuck

Sample ID: MB-75594 SampType: MBLK TestCode: EPA Method 300.0: Anions

PBS Client ID: Batch ID: 75594 RunNo: 97431

Prep Date: 6/14/2023 Analysis Date: 6/14/2023 SeqNo: 3541454 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-75594 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75594 RunNo: 97431

Prep Date: 6/14/2023 Analysis Date: 6/14/2023 SeqNo: 3541455 Units: mg/Kg

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

Chloride 15.00 94.1 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- 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
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

9.7

WO#: **2306399** *19-Jun-23*

Client: EOG
Project: Sawbuck

Surr: DNOP

Sample ID: LCS-75498	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	1D: 75 4	198	F	RunNo: 97	7343					
Prep Date: 6/9/2023	Analysis D	ate: 6/ 9	9/2023	9	SeqNo: 3	536614	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	35	10	50.00	0	70.8	61.9	130				
Surr: DNOP	5.0		5.000		99.4	69	147				

Sample ID: MB-75498 SampType: MBLK				TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch	1D: 75 4	198	F	RunNo: 9	7343						
Prep Date: 6/9/2023	Analysis D	ate: 6/ 9	9/2023	5	SeqNo: 3	536619	Units: mg/K	g				
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										

97.3

147

10.00

O1:6:
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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2306399 19-Jun-23

Client: EOG **Project:** Sawbuck

Sample ID: Ics-75478 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 75478 RunNo: 97367 Prep Date: 6/8/2023 Analysis Date: 6/12/2023 SeqNo: 3538457 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 97.4 70 130 Surr: BFB 2200 1000 220 15 244

Sample ID: mb-75478 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: Batch ID: 75478 PBS RunNo: 97367 Prep Date: Analysis Date: 6/12/2023 6/8/2023 SeqNo: 3538458 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

ND 5.0 1000

1000

105

15

244

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

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

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **2306399** *19-Jun-23*

Client: EOG
Project: Sawbuck

Sample ID: Ics-75478	SampType: LCS			Tes							
Client ID: LCSS	Batcl	Batch ID: 75478			RunNo: 97	7367					
Prep Date: 6/8/2023	Analysis [Date: 6/	12/2023	5	SeqNo: 3	538472	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.92	0.025	1.000	0	91.9	70	130				
Toluene	0.93	0.050	1.000	0	92.9	70	130				
Ethylbenzene	0.92	0.050	1.000	0	92.4	70	130				
Xylenes, Total	2.8	0.10	3.000	0	92.3	70	130				
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	39.1	146				

Sample ID: mb-75478	Samp ¹	Гуре: МЕ	BLK	Tes						
Client ID: PBS	Batc	h ID: 75 4	478	F	RunNo: 9					
Prep Date: 6/8/2023	Analysis [Date: 6/	12/2023	(SeqNo: 3	538473	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	0.97		1.000		97.5	39.1	146			

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

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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: 7/25/2023 10:23:39 AM

Client Name: EOG		Work Order Number	2306399		RcptNo:	1
Received By: Tracy Casa	rrubias	6/8/2023 7:35:00 AM				
Completed By: Tracy Casa	rrubias	6/8/2023 8:50:48 AM				
Reviewed By: Jn 6/	8/23					
Chain of Custody						
1. Is Chain of Custody comple	ete?		Yes 🗌	No 🗹	Not Present	
2. How was the sample delive	red?		Courier			
Log In 3. Was an attempt made to co	ool the samples	?	Yes ⊻	No 🗌	na 🗀	
,				_	_	
4. Were all samples received a	at a temperatur	e of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗌	
5. Sample(s) in proper contain	er(s)?		Yes 🗸	No 🗌		
6. Sufficient sample volume fo	r indicated test	s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA a	nd ONG) prope	rly preserved?	Yes 🗹	No 🗌		
8. Was preservative added to	oottles?		Yes	No 🗹	NA 🗆	1
9. Received at least 1 vial with	headspace <1	4" for AQ VOA?	Yes 🗌	No 🗆	NA 🗹	15m
0. Were any sample container	s received brok	en?	Yes	No 🗹	# of preserved	1 al loss le
1. Does paperwork match bott			Yes 🗹	No 🗆	bottles checked for pH:	10000
(Note discrepancies on chai	•	f Cooke do 2	Yes 🗹	No 🗆	(<2 or/ Adjusted?	>12 unless noted)
Are matrices correctly identiIs it clear what analyses were		i Custody?	Yes ✓	No 🗆		
4. Were all holding times able	to be met?		Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for au	,					
pecial Handling (if appl 15. Was client notified of all dis		this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:		Date:				
By Whom:		Via: [_ eMail F	Phone Fax	☐ In Person	
Regarding:	Married State of the Association and				and the second second second	
Client Instructions:	Aailing address	, phone number,and Email	are missing o	n COC- T MC 6/	8/23	
16. Additional remarks:						
7. Cooler Information Cooler No Temp °C	Condition	Seal Intact Seal No S	Seal Date	Signed By		
	Good Y			2,504 27		

Chain-of-Custody Record	Lurn-Around Lime:	HALL ENVIDONMENTAL
Client: <i>色</i> 身	Standard K Rush 5 Dall	Ę
Nontex	Project Name:	www.hallenvironmental.com
Mailing Address: On Till	Lawbuch	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:	22E-00123 03	Analysis Request
email or Fax#:	Project Manager:	*O\$
ige:	Naviet Comment	S'85 SMI SMI S'4, S
	Mee	OA(2) () () () () ()
Accreditation: Az Compliance NFI AC Other	Sampler: Hunter Menn	0 \ 0 808\2 (1.40 S8 10 ON
ype)	olers:	Sebi 3 bo 3 bo 4 co 4 co 10 co
	Cooler Temp(Induding CF): 3.3 - 6 = 3.3 (°C)	astice letho y 83 8 Me 3r, 1 8m, 1 8m, 1
F		7TEX) 7081 P0
6/5/3/10:00/Soil 13423-03 11	407 ICA DOI	8 × × × × × × × × × × × × × × × × × × ×
10:05		XX
V 20:36 & BH33-651	003	X X
Date: Time: Relinquished by:	Via: Date Time	Remarks: send email to
Date; Time: Relinquished by:	'	analytical Quertex, Ca
4998 1900 almums	(0/8/2	
If necessary samples submitted to Hall Environmental may be subcontracted to other ac	credited laboratories. This serve	ss as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 7/25/2023 10:23:39 AM

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 242086

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	242086
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwel	None None	7/25/2023