District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NJXK1619335364
District RP	1RP-4342
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.		OGRID 73		
Contact Name Chase Settle		Contact Te	elephone 575-7	⁷ 48-1471
Contact email Chase_Settle@eogresour	ces.com	Incident #	(assigned by OCD)	NJXK1619335364
Contact mailing address 104 S. 4th Street,	Artesia, NM 8	38210		
Location of Release Source				
Latitude 33.3128738			-103.4417419	
•	(NAD 83 in decimal a	degrees to 5 decin	ial places)	
Site Name Willie BNW State Com #3		Site Type	Well & Tanks	
Date Release Discovered 07/03/2016		API# 30-02	25-36684	
				1
Unit Letter Section Township	Range	Coun	ty	
A 6 12S	35E	Chave	2S	
Surface Owner: X State Federal Private (Name:)				
Nature and Volume of Release				
Material(s) Released (Select all that ap	ply and attach calcul	ations or specific	justification for the	volumes provided below)
X Crude Oil Volume Released (bbls) 30			Volume Reco	vered (bbls) 15
X Produced Water Volume Released (bbls) 15		Volume Reco	vered (bbls) 5	
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		X Yes N	0	
Condensate Volume Released (bbls)		Volume Reco	vered (bbls)	
☐ Natural Gas Volume Released (Mcf)		Volume Reco	vered (Mcf)	
Other (describe) Volume/Weight Released (provide units)		s)	Volume/Weig	ht Recovered (provide units)

Cause of Release Please refer to the attached original C-141 form for 1RP-4342 for cause of release and immediate action steps. EOG Resources is submitting for closure via the new form to formally close out this incident. All sampling and correspondence is also attached.

Form C-141

State of New Mexico Oil Conservation Division

Incident ID	NJXK1619335364
District RP	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ✓ Yes ☐ No	If YES, for what reason(s) does the respo Greater than 25 barrels of fluid	nsible party consider this a major release? released.	
M Ics M			
	otice given to the OCD? By whom? To wls, 07/03/2016 by email.	nom? When and by what means (phone, email, etc)?	
	Initial R	esponse	
The responsible	party must undertake the following actions immediate.	y unless they could create a safety hazard that would result in injury	
☐ The source of the rela	ease has been stopped.		
The impacted area ha	s been secured to protect human health and	the environment.	
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.	
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.	
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Chase		Title: Rep Safety & Environmental Sr	
Signature: Chase	ettle	Date: 09/20/2021	
email: Chase_Settle	@eogresources.com	Telephone: <u>575-748-1471</u>	
OCD Only			
Received by:		Date:	

State of New Mexico Oil Conservation Division

Incident ID	NJXK1619335364
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?(ft b			
Did this release impact groundwater or surface water?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No		
Did the release impact areas not on an exploration, development, production, or storage site?	Yes No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information			
☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody			

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



Form C-141

State of New Mexico Oil Conservation Division

Incident ID	NJXK1619335364
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:			
Signature:	Date:		
email:	Telephone:		
OCD Only			
Received by:	Date:		

State of New Mexico Oil Conservation Division

Incident ID	NJXK1619335364
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.		
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation poin □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29. □ Proposed schedule for remediation (note if remediation plan tin 	12(C)(4) NMAC		
Deferral Requests Only: Each of the following items must be co	nfirmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility		
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:	Title:		
Signature:	Date:		
email:	Telephone:		
OCD Only			
<u>OCD Only</u>			
Received by:	Date:		
Approved	Approval Denied Deferral Approved		
Signature:	Date:		

State of New Mexico Oil Conservation Division

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

Incident ID	NJXK1619335364
District RP	1RP-4342
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.

A scaled site and sampling diagram as described in 19.15.29	9.11 NMAC	
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate Ol	DC District office must be notified 2 days prior to final sampling)	
☐ Description of remediation activities		
and regulations all operators are required to report and/or file cert may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or regu	blete to the best of my knowledge and understand that pursuant to OCD rules an release notifications and perform corrective actions for releases which of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for plations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.	
Printed Name: Chase Settle	Title: Rep Safety & Environmental Sr	
Printed Name: Chase Settle Signature: Augustus	Date: 09/20/2021	
email: Chase_Settle@eogresources.com		
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by: Bradford Billings Printed Name: Bradford Billings	lings Date: 09/21/2021	
Printed Name: Bradford Billigs	Title: Envi.Spec.A	

RECEIVED

State of New Mexic By JKeyes at 9:54 am, Jul 11, 2016
Energy Minerals and Natural Resources Revised August 8: 201

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

		-			4245194	e, NM 875									
			Rel	ease Notific	ation	and Co	orrective A	ction	l						
						OPERA'	TOR		✓ Initi	al Report		Final Repor			
Name of Co						Contact									
	leum Corporation	n				Amber Grif									
Address			10			Telephone 1									
105 S. 4" S	treet Artesia, NI	N 882	10			575-748-41									
Facility Na Willie BNV						Facility Typ Well & Tan									
Willie Divi	y Blate #5					well & Tan	KS		======						
Surface Ow	mer			Mineral O	wner				API No).					
State				State					30-025	-36684					
				LOCA	TIOI	OFRE	LEASE								
Unit Letter	Section Town	ship	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County					
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				NAT	URE	OF REL	EASE								
Type of Rele	ase			11777	OILE	Volume of			Volume I	Recovered					
	ater & Crude Oil					15 B/PW,	30 B/O		5 B/PW,	15 B/O					
Source of Re Oil tank over							lour of Occurrence	e	Date and	Hour of Dis	covery				
	ate Notice Given?	M v	/es □ 1	No Not Requ	ired	7/3/2016; A	AM Whom? Jamie K	Zevec.	7/3/2016;	; AM					
		<u> </u>		Tot Requ	iii cu										
By Whom? I	course Reached?		Yes 🗵	1 No			Iour: 7/3/2016 - 6								
Was a Water	oodioo redonedi	1	103 2	110		If YES, Volume Impacting the Watercourse.									
	ırse was Impacted,														
Describe Cau	se of Problem and	Reme	dial Action	n Taken.*		2									
The separato	r dump on location shut in, vacuum tr	experi	enced pro	blems and dumped	d produc	ced water into	o the crude oil tan	ks. Thi	s resulted i	n the crude o	il tank	s overfilling.			
area behind t	he battery was spra	yed w	ith a Micro	o-Blaze/water mix	ture.	is were exca	vated and hadred i	io a ivivi	OCD appr	oved facility	. The o	verspray			
Describe Are	a Affected and Cle	anup A	Action Tak	en;											
The affected	area is approximat	ely 40'	x 70' wit	hin an unlined ber	med bat	tery. There v	as also minor ove	erspray	behind the	tank battery.	Vertic	cal			
TPH & RTF	amples will be take X are under RRAL	n from	the releas	e area and analysi	s ran fo	rTPH & BT	EX (chlorides for	docume	entation). 1	finitial anal	ytical r	results for			
above the RF	AL's a work plan	will be	submitted	l to the OCD. Den	th to G	round Wate	r: <50° per Chev	reques	ting closur	c. If the ana	lytical	results are			
Aren: No, D	istance to Surface	Water	Body: >	1000', SITE RAN	KING	IS 20.									
I hereby certi	fy that the informa	tion gi	ven above	is true and compl	ete to th	e best of my	knowledge and u	nderstar	nd that purs	suant to NM	OCD n	ules and			
regulations a	Il operators are requestre the environmen	uired to	o report ar	id/or file certain re	lease no	otifications a	nd perform correc	tive acti	ons for rel	eases which	may er	ndanger			
should their	or the environmen perations have fail	ed to a	deauntely	investigate and re	mediate	: NWOCD m	arked as "rinai Ri on that nose a thr	eport" a est to ar	oes not reli	ieve the oper	ator of	liability			
or the enviro	nment. In addition	, NMO	CD accep	tance of a C-141 r	eport do	es not reliev	e the operator of	responsi	bility for c	ompliance wa	ith any	other			
federal, state	or local laws and/	or regu	lations.									,			
/	1	_					OIL CON	SERV	ATION	DIVISIO	N				
Signature:	Imber 6	0.1	12:0												
	NI CO	1	000		\neg	Annroyed by	Environmental S ₁	naaialia	. Jamit	Ellyer					
Printed Name	: Amber Griffin					ipproved by				*					
Title: Enviro	nmental Represent	ative			/	O7/11/2016 Expiration Date: 09/11/2016									
E-mail Addre	ss: agriffin@yates	petrol	eum.com			Conditions of	Annroval								
	,	,	vom				oles only. Delineat	te and re	emediate p	Attached					
Date: July 8,				one: 575-748-411		MAROCD gui				1RP 4	342				
Attach Addi	tional Sheets If N	ecess	arv												

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District I
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1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141 Revised August 8, 2011

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Oil Conservation Division 1220 South St. Francis Dr.

1220 S. St. Frau	ncis Dr., San	a Fe. NM 8750	5			DI, Flanc								
						e, NM 875								
			Rel	ease Notific	catio			ction						
						OPERA'	ГOR		Initi	al Report	\boxtimes	Final 1	Repor	
Name of Co					1	Contact								
EOG Y Res	sources, In	c.				Amber Grif								
Address						Telephone 1								
		sia, NM 882	10			575-748-41								
Facility Na						Facility Typ								
Willie BNV	N State #3					Well & Tan	KS							
Surface Ow	/ner			Mineral C)wner				API No).				
State				State				l	30-025-					
				LOCA	TIO	N OF RE	LEASE							
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/Wo	est Line	County				
A	6	12S	35E	770	(51.5.551.555)	North	950	amplication design	ist	Lea				
	-													
				Latitude 33.3	312873	8 Longitud	e <u>103.4417419</u>							
						OF REL								
Type of Rele	920			IIAI	OILE	Volume of			Volume R	Recovered				
Produced Wa		e Oil				15 B/PW,			B/PW,					
Source of Re							lour of Occurrenc	e I	Date and	Hour of Dis	covery			
Oil tank over						7/3/2016;			7/3/2016;	AM				
Was Immedia	ate Notice (Given? 🖂 Y	Yes 🔲 1	No 🗌 Not Requ	iired	If YES, To	Whom? Jamie K	Ceyes						
By Whom? F	Robert Ashe	r					lour: 7/3/2016 - 6							
Was a Water	course Read	ched?	Yes 🗵] No		If YES, Vo								
If a Watercon	iree was Im	pacted, Descri	ihe Fully *	N/A										
Describe Cau	ise of Probl	em and Remed	dial Action	Taken.*										
The separator	r dump on l	ocation experi	ienced pro	blems and dumpe	d produ	ced water into	the crude oil tan	ks. This 1	resulted in	n the crude o	il tank	s overfil	ling.	
The well was	shut in, va	cuum trucks w	vere called	, and visibly impa	cted so	ils were excav	ated and hauled t	o a NMO	CD appro	ved facility.	. The o	verspray	,	
				-Blaze/water mix	ture.									
		and Cleanup A		en: nin an unlined ber	mad ba	Home Thoron	un also minos ove	vanyay ba	hind tha	tank battanı	Voutio	o1		
delineation s	arca is appi amples will	be taken from	the releas	e area and analys	is ran fo	n TPH & BT	EX (chlorides for	document	lation). It	f initial analy	vtical r	aı esults fo	r I	
TPH & BTE	X are under	RRAL's (site	ranking is	20) a Final Repo	rt, C-14	1 will be sub	nitted to the OCD) requestin	ng closure	e. If the ana	lytical	results a	re	
above the RR	AL's a wor	k plan will be	submitted	to the OCD. Dep	oth to G	round Wate	r: <50' per Chev	ron/Texa	co Trend	Map, Well	lhead F	Protection	on	
				1000', SITE RAN	IKING	IS 20. EOG	Y requests closu	re as all	work was	s completed	as per	previo	usly	
		roved work p		is true and compl	ata to ti	a heet of my	knowledge and w	nderstand	that nure	uant to NM	CD "	les and	_	
				d/or file certain re										
public health	or the envi	onment. The	acceptanc	e of a C-141 repo	rt by the	NMOCD m	arked as "Final Re	eport" doe	s not reli	eve the oper	ator of	liability		
should their o	perations h	ave failed to a	dequately	investigate and re	emediate	e contaminati	on that pose a thre	eat to grou	ind water	, surface wa	ter, hur	nan heal	lth	
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federal, state,	or local lav	vs and/or regu	lations.				077 0077	, , , , , , , , , , , , , , , , , , ,	mr o z r	D ** ** ** *				
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Title: Rep Sa	ıfety & Env	ironmental II				Approval Dat	e:	Ex	Expiration Date:					
E-mail Addre	ee amber	griffin@eogra	egources of	nm		Conditions of	Approval							
E-man Audre	.ss. amuci_	Reminitaconic							Attached					
Date: April 3	, 2017		Pl	ione: 575-748-41	11	IRP- 4347								

Date: April 3, 2017
* Attach Additional Sheets If Necessary

Received by OCD: 9/20/2021 3:45:49 PM

MARTIN YATES, III 1912-1983 FRANK W, YATES 1936-1986 S,P YATES 1914-2008



JOHN A. YATES SR.
CHAIRMAN EMERITUS

JOHN A. YATES JR.
CHAIRMAN OF THE BOARD

DOUGLAS E. BROOKS
PRESIDENT / CEO

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105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210-2118 TELEPHONE (575) 748-1471

October 11, 2016

Ms. Kristen Lynch NMOCD District I 1625 N. French Dr. Hobbs, NM 88240

APPROVED NMOCD WorkPlan
By Kristen Lynch at 9:54 am, Nov 14, 2016

RE:

Willie BNW State #3

30-025-36684

Section 6, T12S-R35E Lea County, New Mexico

Ms. Lynch,

Yates Petroleum Corporation (Yates) would like to submit the attached plan of work to you regarding the release that occurred at the above mentioned facility on July 3, 2016 (1RP-4342).

With NMOCD and NMSLO approval of this work plan, Yates will hold a bid meeting allowing several contractors the opportunity to submit bids on this remediation project. Bids that are received will be forwarded to Yates Management for review. Once Yates Management reviews the bids and gives approval, the remediation project will be awarded to a contractor for work to commence.

If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at agriffin@yatespetroleum.com.

Thank You,

Amber Griffin (U)
Environmental Representative
Yates Petroleum Corporation

Yates Petroleum Corporation

Willie BNW State Com #3 Work Plan

Section 6, T12S-R35E

Lea County, New Mexico

October 11, 2016

I. Location

The well is located approximately 8.6 miles west of Tatum, NM and approximately 1.5 miles north of Highway 380.

II. Background

On July 3, 2016, Yates had a release of 15 barrels produced water and 30 barrels of crude oil, with 5 barrels produced water and 15 barrels of crude oil recovered. The area affected from this release was within the bermed area of the battery, and there was slight overspray to the west of the tanks outside the bermed area, but all contamination remained on the production pad. Vegetation and grasses that were affected by overspray from the release were treated with a Micro-Blaze/Water mixture. The area within the berm area was scraped to remove all visible contamination.

An initial Form C-141 was submitted, via e-mail, to the NMOCD District I office on July 8, 2016 for this release.

On July 13, 2016 personnel returned to the release area and collected soil samples from the release area. The release area was split into two sections: Pooling and Overspray. The pooling area was the area affected inside the bermed battery. The overspray area was the area affected to the west of the tanks, outside the bermed battery. The pooling area was sampled at the surface and at depths of 1', 2', 3' and 4' below the surface area with a backhoe, because of hard rock that was encountered the backhoe could not successfully grab samples at deeper depths. The overspray area was sampled at the surface. The soil samples were sent to an approved NMOCD laboratory and tested for BTEX 8021B, TPH 8015M, and Chlorides 300.0. Yates received the analytical results on July 25, 2016 (Report 1607710 attached to this work plan). The analytical results showed the following:

- Chlorides were at or near acceptable levels for all samples that were collected in both the pooling and overspray areas.
- The overspray area sample showed that both TPH and BTEX were at levels below NMOCD RRALs.
- The pooling area showed elevated BTEX levels, which delineated to levels below NMOCD RRALs.
- The pooling area also showed elevated TPH levels, which did not delineate to levels below NMOCD RRALs.

On August 23, 2016 personnel returned to the release area and collected further soil samples from the pooling area at depths of 5', 6' and 7'below the surface level with a trackhoe. An impenetrable rock layer was encountered and the trackhoe, after many attempts, was unable to break through the naturally occurring barrier. The soil samples were sent to an approved NMOCD laboratory and tested for TPH 8015M. Yates received the analytical results on September 1, 2016 (Report 1608F06 attached to this work plan). The analytical results showed that TPH levels were still at levels above NMOCD RRALs.

III. Surface and Ground Water

Area surface geology is Cenozoic. The ChevronTexaco depth to ground water map shows the depth to groundwater to be less than 50 feet, making the site ranking for this site a twenty (20). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is twenty (20) based on the following:

Depth to ground water <50'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

IV. Soils

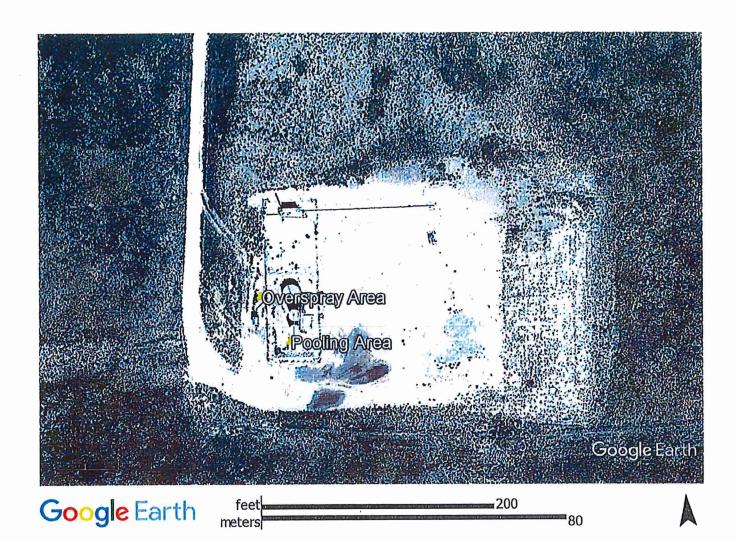
The area consists of soils that are caliche and other hard rock.

V. Scope of Work

Based on the enclosed analytical reports and an impermeable, impenetrable rock layer that was encountered, Yates proposes the following excavation work:

- Pooling area Excavate 4' of soils. Lay a 20 mil liner in the bottom of the excavation. The liner will be cushioned on both the top and bottom with sand. Finish the backfill of the excavation with caliche.
- Contaminated soils that are excavated will be hauled to a NMOCD approved disposal facility.

Once all excavation and backfill work is complete, Yates will submit a Final Form C-141 to NMOCD requesting closure of this release.



Willie BNW State #3

BTEX GRO DRO TOTAL Chlorides	6530 530	6700 160	6100 1,400	1390 380	834 180	1850 -	1780 -	720 -
DRO T	5800	_		200	94	1500	1400	290
GRO	730	4100 2600	2900 3200	069	740	350	380	130
BTEX	21	390	247	54.2	28.1			•
Depth	Surface	1.	2	ņ	4.	ņ	o,	7
Sample Type	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Backhoe	Grab/Trackhoe	Grab/Trackhoe	Grab/Trackhoe
Sample Date Analytical Report	1607710	1607710	1607710	1607710	1607710	1608F06	1608F06	1608F06
Sample Date	7/13/2016	7/13/2016	7/13/2016	7/13/2016	7/13/2016	8/23/2016	8/23/2016	8/23/2016
Sample Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area	Release Area
	Pooling Surface	Pooling 1'	Pooling 2'	Pooling 3'	Pooling 4*	Pooling 5	Pooling 6*	Pooling 7"

Site Ranking is Twenty (20). Depth to Ground Water <50' (per ChevronTexaco Trend Map).

All results are ppm.

Released: 30 B/O, 15 B/PW; Recovered: 15 B/O, 5 B/PW. Release Date: 7/3/2016. 1RP-4342





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

OrderNo.: 1607710

July 25, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4195

FAX

RE: Willie BNW State #3

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/15/2016 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 qualifers 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order: 1607710

Date Reported: 7/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation Lab Order: 1607710 Willie BNW State #3 Project: Collection Date: 7/13/2016 8:24:00 AM 1607710-001 Lab ID: Client Sample ID: Pooling Surface Matrix: SOIL Result PQL Qual Units DF Date Analyzed **Batch ID** Analyses Analyst: LGT **EPA METHOD 300.0: ANIONS** 530 30 20 7/20/2016 2:45:06 AM 26483 Chloride mg/Kg Lab ID: 1607710-002 Collection Date: 7/13/2016 8:26:00 AM Matrix: SOIL Client Sample ID: Pooling 1' Result PQL Qual Units DF Date Analyzed **Batch ID** Analyses Analyst: LGT **EPA METHOD 300.0: ANIONS** Chloride 160 30 mg/Kg 20 7/20/2016 3:22:19 AM 26483 Collection Date: 7/13/2016 8:29:00 AM 1607710-003 Lab ID: Matrix: SOIL Client Sample ID: Pooling 2' PQL Qual Units DF Date Analyzed Batch ID Result Analyses Analyst: MRA **EPA METHOD 300.0: ANIONS** 75 50 7/20/2016 6:40:08 PM 26483 Chloride 1400 mg/Kg Lab ID: 1607710-004 Collection Date: 7/13/2016 8:37:00 AM Matrix: SOIL Client Sample ID: Pooling 3' Result PQL Qual Units DF Date Analyzed **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 380 30 mg/Kg 20 7/20/2016 3:47:07 AM 26483 1607710-005 Collection Date: 7/13/2016 9:00:00 AM Lab ID: Matrix: SOIL Client Sample ID: Pooling 4' PQL Qual Units DF Date Analyzed Batch ID Result Analyses **EPA METHOD 300.0: ANIONS** Analyst: LGT

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

30

180

Qualifiers:

Chloride

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 3

20 7/20/2016 3:59:32 AM 26483

Released to Imaging: 9/21/2021 9:18:28 AM

P Sample pH Not In Range

mg/Kg

- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Analytical Report Lab Order: 1607710

Date Reported: 7/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation 1607710 Lab Order: Willie BNW State #3 Project: Collection Date: 7/13/2016 9:04:00 AM Lab ID: 1607710-006 Client Sample ID: Overspray Surface Matrix: SOIL Analyses Result PQL Qual Units DF Date Analyzed Batch ID **EPA METHOD 300.0: ANIONS** Analyst: LGT 7/20/2016 4:36:46 AM 26483 Chloride 85 30 mg/Kg

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Yates Petroleum Corporation

Willie BNW State #3 Project:

Client:

Chloride

TestCode: EPA Method 300.0: Anions Sample ID MB-26483 SampType: MBLK

RunNo: 35825 Client ID: PBS Batch ID: 26483

Prep Date: 7/19/2016 Analysis Date: 7/19/2016 SeqNo: 1108921 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-26483 SampType: LCS TestCode: EPA Method 300.0: Anions

1.5

Batch ID: 26483 RunNo: 35825 Client ID: LCSS

14

Analysis Date: 7/19/2016 SeqNo: 1108922 Units: mg/Kg Prep Date: 7/19/2016

15.00

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

93.7

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank В

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Value above quantitation range

Page 3 of 3

Released to Imaging: 9/21/2021 9:18:28 AM

WO#:

1607710

25-Jul-16





Hall Engineental Analysis Laboratory 1901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website 303 w.hallenvironmental.com

Sample Log-In Check List

		TOTAL THE TANK	The state of the s			
Client Nemo	Yatos Potrolaum Corpora	Work Order Number.	1607710		RoptNo:	1
Received by/dat	te:	30 /15/10		No.		
Lagged By.	Lindsay Mangin	7/15/2016 9:30:00 AM		Openshi Klands		
Completed By	Lindsay Mangin	7/15/2016 10:33:19 AM	A .	בתיילון האיילה באיילון האיילה		
Reviewed By	1-Ki	01/15/10		(Z)		
Chain of Cus	tody	11/19/14				
	als intact on sample bottles?		Yas V	No 📗	Not Present .	
2. Is Chain of C	Custody complete?	ık.	Yes 🔽	No L.	Not Present	
3 How was the	e sample delivered?		Courier			
Login						
Log In		-0	Yes Y	No !	NA	
4. YVDS an Bui	amp) made to cool the sample:	sr	tes y	140 1 1	101 . 1	
5 Were all sad	mples received at a temporatu	ro of >0°C to 6.0°C	Yes 🔽	No 😓	NA	
6. Sample(s) i	n proper container(s)?		Yes 🗸	No 🔙		
			5	F.		
	ample volume for indicated less		Yes 🗹	No [
	s (except VOA and ONG) prop	erly preserved?	Yas 🗸	No		
9. Was presen	valive added to bottles?		Yos	No 🗸	NA	
10. VOA vials h	ave zero headspace?		Yes	No 🛄	No VOA Vials 🔽	
11. Were any s	ample containers received bro	ken?	Yes	No 🗸	H of orenound	
					# of preserved bottles checked	
	work match boille labels?		Yes V	No	for pH:	or >12 unless noted)
	epancies on chain of custody) s correctly identified on Chain	of Custadu?	Yes 🗸	No 🗔	Adjusted?	01 - 12 4 11000 1101007
	hat analyses were requested?	or Chamily 1	Yes V	No I		
5 59	Iding times able to be met?		Yes Y	No 🔟	Checked by	
(If no, notify	customer for authorization.)					
Special Hand	dling (if applicable)					
16. Was client	notified of all discrepancies wit	h this order?	Yes	No	NA 🗸	
Perso	on Notified.	Date				
By W	hom:	Vin.	eMail	Phone Fex	In Person	
Raga	rding			4.4		
Clien	I Instructions:				1	
17. Additional	romarks:					
18. Cooler Int	larmation					
Cooler	No Temp °C Condition	Seal Intect Seal No	Seal Date	Signed By		
1	2.8 Good	/es				

HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	Albuquerque, NM 87109	Fax 505-345-4107	Analysis Request			280	1, ₆ O	N,1C (A)	M 8 KGRA 8 M, 6F, 68 M 8 M 8 M 8 M 8 M 8 M 8 M 8 M M 8 M M 8 M M 8 M M 8 M	×	×	×	×	×	×				Remarks: TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Anions: Chloride Only. Please put	n
HALL	ANAL	lled.www.hall	4501 Hawkins NE -	Tel. 505-345-3975		juo	ടേട)	() () () ()	+ T + 1510	B bo bo po	M + XƏTB TPH Melha TPH (Meth HIOM) (BQJ ANA) OFE8	×	×	×	×	×	×				Remarks: TPH: 8015B, results as mg/kg. Anion	July 22, 2016. Thank you.
	ay 7/22/2016		State #3			(12		A The	T		HEAL No. K+ HEAL No. KH + MINGTER CT ナーフリー BE	x 130,-	-002 x	- 233 _x	× 750-	-005 ×	× 200				1 5/16 09 3c	'Date Time
ind time:	X Standard Need by Friday 7/22/2016	ame:	Willie BNW State #3		1RP-4342	anager:	Amber Griffin	2-CD2 # O.1	☐ Yes	Sample Temperature: 2. 9	er Preservativ	වු	ice	eal	lce.	lce ezi	at;				fact 07,	, , <u>, , , , , , , , , , , , , , , , , </u>
lum-Arbund IIMe:	X Stand	Project Name:		Project #:		Froject Manager.			On Ice:	Sample T	Container Type anc #	1 - 402.	1 - 402.	1 - 402.	1-402.	1 - 402.	1-402				Received by:	Received by:
Chain-of-Custody Record	Yates Petroleum Corporation			05 South 4th Street Artesia, NM 88210	575-513-8799 or 575-748-4111	agriffin@vatespetroleum.com		C Level 4 (Full Vailoation)			Sample Request ID	Pooling Surface	Pooling 1'	Pooling 2	Fooling 3	Pooling 4"	Overspray Surface				dby Grafikin	
f-Cust	etroleum			et Artesia	575-513-8	agriffin@y			O. I.		Matrix	8:24 Soil									Relinquished by:	Relinquished by:
ain-o	Yates F		dress:	4th Stre		世	:aĉe;	р	:: ::	(20)	Time										-ime:	Time:
	lient		alling Address:	05 South	hone #:	mail or Fax#	A'O'C Fackage:	Standard	ccreditation:) EDD (Type)	Date	7/13/2016	7/13/2016	7/13/2016	7/13/2016	7/13/2016	7/13/2016) L. C.	350

f necessary, samples submitted to Hall Environmental may be subcommended to other accredited (aboratonies. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytics report



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

OrderNo.: 1607710

July 25, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4195
FAX

RE: Willie BNW State #3

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/15/2016 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 qualifers 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1607710 Date Reported: 7/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Willie BNW State #3 Project:

Lab ID: 1607710-001 Client Sample ID: Pooling Surface

Collection Date: 7/13/2016 8:24:00 AM

Received Date: 7/15/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	: TOM
Diesel Range Organics (DRO)	5800	93		mg/Kg	10	7/20/2016 12:28:27 PM	26444
Surr: DNOP	0	70-130	S	%Rec	10	7/20/2016 12:28:27 PM	26444
EPA METHOD 8015D: GASOLINE RAN	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	730	49		mg/Kg	10	7/18/2016 12:17:24 PM	26415
Surr: BFB	418	80-120	S	%Rec	10	7/18/2016 12:17:24 PM	26415
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.24		mg/Kg	10	7/18/2016 12:17:24 PM	26415
Toluene	1.1	0.49		mg/Kg	10	7/18/2016 12:17:24 PM	26415
Ethylbenzene	1.9	0.49		mg/Kg	10	7/18/2016 12:17:24 PM	26415
Xylenes, Total	18	0.98		mg/Kg	10	7/18/2016 12:17:24 PM	26415
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	10	7/18/2016 12:17:24 PM	26415
	21						

Matrix: SOIL

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

Qualifiers:

Received by OCD: 9/20/2021 3:45:49 PM

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 9 j
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Analytical Report Lab Order 1607710 Date Reported: 7/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Willie BNW State #3

1607710-002

Project:

Lab ID:

Client Sample ID: Pooling 1'

Collection Date: 7/13/2016 8:26:00 AM Received Date: 7/15/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF 1	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS		•			Analyst	: том
Diesel Range Organics (DRO)	2600	950		mg/Kg	100	7/20/2016 12:56:26 PM	26444
Surr: DNOP	0	70-130	s	%Rec	100	7/20/2016 12:56:26 PM	26444
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	4100	240		mg/Kg	50	7/18/2016 12:41:45 PM	26415
Sun: BFB	279	80-120	s	%Rec	50	7/18/2016 12:41:45 PM	26415
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	1.2		mg/Kg	. 50	7/18/2016 12:41:45 PM	26415
Toluene	49	2.4		mg/Kg	50	7/18/2016 12:41:45 PM	26415
Ethylbenzene	31	2.4		mg/Kg	50	7/18/2016 12:41:45 PM	26415
Xylenes, Total	310	4.9		mg/Kg	50	7/18/2016 12:41:45 PM	26415
Surr: 4-Bromofluorobenzene	121	80-120	s	%Rec	50	7/18/2016 12:41:45 PM	26415
	390						

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 9
- Sample pH Not In Range P
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analytical Report Lab Order 1607710 Date Reported: 7/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Willie BNW State #3 Project:

Lab ID:

Client Sample ID: Pooling 2'

Collection Date: 7/13/2016 8:29:00 AM

Received Date: 7/15/2016 9:30:00 AM 1607710-003 Matrix: SOIL

Analyses	Result	PQL (Qual	Units	DF :	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS	}				Analys	l: TOM
Diesel Range Organics (DRO)	3200	920		mg/Kg	100	7/20/2016 1:24:31 PM	26444
Surr: DNOP	0	70-130	S	%Rec	100	7/20/2016 1:24:31 PM	26444
EPA METHOD 8015D: GASOLINE RA	NGE					Analys	l: NSB
Gasoline Range Organics (GRO)	2900	500		mg/Kg	100	7/18/2016 1:06:08 PM	26415
Surr: BFB	159	80-120	s	%Rec	100	7/18/2016 1:06:08 PM	26415
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	2,5		mg/Kg	100	7/18/2016 1:06:08 PM	26415
Toluene	44	5.0		mg/Kg	100	7/18/2016 1:06:08 PM	26415
Ethylbenzene	23	5.0		mg/Kg	100	7/18/2016 1:06:08 PM	26415
Xylenes, Total	180	9.9		mg/Kg	100	7/18/2016 1:08:08 PM	26415
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	100	7/18/2016 1:06:08 PM	26415

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

Qualiflers:

- 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 ND
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range E
- Analyte detected below quantitation limits Page 3 of 9 J
- P Sample pH Not In Range
- Reporting Detection Limit
 - Sample container temperature is out of limit as specified

Analytical Report Lab Order 1607710 Date Reported: 7/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Willie BNW State #3

1607710-004

Project:

Lab ID:

Matrix: SOIL

Client Sample ID: Pooling 3'

Collection Date: 7/13/2016 8:37:00 AM Received Date: 7/15/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS					Analysi	: TOM
Diesel Range Organics (DRO)	700	95		mg/Kg	10	7/20/2016 1:52:31 PM	26444
Surr: DNOP	0	70-130	s	%Rec	10	7/20/2016 1:52:31 PM	26444
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	690	95		mg/Kg	20	7/18/2016 1:30:27 PM	26415
Surr: BFB	225	80-120	S	%Rec	20	7/18/2016 1:30:27 PM	26415
EPA METHOD 8021B: VOLATILES						Analys	: NSB
Benzene	ND	0.47		mg/Kg	20	7/18/2016 1:30:27 PM	26418
Toluene	4.4	0.95		mg/Kg	20	7/18/2016 1:30:27 PM	26415
Ethylbenzene	4.8	0.95		mg/Kg	20	7/18/2016 1:30:27 PM	26415
Xylenes, Total	45	1.9		mg/Kg	20	7/18/2016 1:30:27 PM	2641
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	20	7/18/2016 1:30:27 PM	2641

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - V Sample container temperature is out of limit as specified

Received by OCD: 9/20/2021 3:45:49 PM

Analytical Report Lab Order 1607710 Date Reported: 7/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Lab ID:

Project: Willie BNW State #3

Matrix: SOIL 1607710-005

Client Sample ID: Pooling 4'

Collection Date: 7/13/2016 9:00:00 AM Received Date: 7/15/2016 9:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analysi	: TOM
Diesel Range Organics (DRO)	94	9.5		mg/Kg	1	7/20/2016 2:20:35 PM	26444
Surr: DNOP	0	70-130	s	%Rec	1	7/20/2016 2:20:35 PM	26444
EPA METHOD 8015D: GASOLINE RAI	NGE					Analys	: NSB
Gasoline Range Organics (GRO)	740	97		mg/Kg	20	7/18/2016 1:54:48 PM	26415
Surr: BFB	347	80-120	s	%Rec	20	7/18/2016 1:54:48 PM	26415
EPA METHOD 8021B: VOLATILES						Analys	: NSB
Benzene	ND	0.49		mg/Kg	20	7/18/2016 1:54:48 PM	26415
Toluene	ND	0.97		mg/Kg	20	7/18/2016 1:54:48 PM	26415
Ethylbenzene	3.1	0.97		mg/Kg	20	7/18/2016 1:54:48 PM	28415
Xylenes, Total	25	1.9		mg/Kg	20	7/18/2016 1:54:48 PM	26415
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	20	7/18/2016 1:54:48 PM	26415

28.1

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 9
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analytical Report Lab Order 1607710 Date Reported: 7/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Lab ID:

Willie BNW State #3 Project: 1607710-006

Matrix: SOIL

Client Sample ID: Overspray Surface Collection Date: 7/13/2016 9:04:00 AM

Received Date: 7/15/2016 9:30:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analysi	t: TOM
Diesel Range Organics (DRO)	97	9.9	mg/Kg	1	7/21/2016 8:31:48 PM	26444
Surr: DNOP	110	70-130	%Rec	1	7/21/2016 8:31:48 PM	26444
EPA METHOD 8015D: GASOLINE RAI	NGE				Analysi	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/18/2016 2:19:22 PM	26415
Sun: BFB	94.7	80-120	%Rec	1	7/18/2016 2:19:22 PM	26415
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	7/18/2016 2:19:22 PM	26415
Toluene	ND	0,048	mg/Kg	1	7/18/2016 2:19:22 PM	26415
Ethylbenzene	ND	0.048	mg/Kg	1	7/18/2016 2:19:22 PM	26415
Xylenes, Total	ND	0.096	mg/Kg	1	7/18/2016 2:19:22 PM	26415
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	7/18/2016 2:19:22 PM	26415

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

Qualiflers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 9 J
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Received by OCD: 9/20/2021 3:45:49 PM

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607710 25-Jul-16

Client: Project;		troleum Corp NW State #3	oratio	on							
Sample ID LC	S-26444	SampTyp	e: LC	S	Tes	Code: EF	PA Method	8015M/D: Die	sel Rangi	Organics	
Client ID: LC	SS	Batch II	D: 26	444	F	tunNo: 3	5794				
Prep Date: 7	/18/2016	Analysis Dat	e: 7 <i>1</i>	19/2016	S	SeqNo: 1	108676	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLlmit	%RPD	RPDLimit	Qual
Diesel Range Orga	nics (DRO)	48	10	50.00	0	96.9	62.6	124			
Surr: DNOP		5.1		5.000		102	70	130			
Sample ID ME	B-26444	SampTyp	e: ME	BLK	Tes	lCode: El	PA Method	8015M/D: Die	sel Range	o Organics	
Client ID: PB	38	Batch II	D: 26	444	F	RunNo: 3	5794				
Prep Date: 7	/18/2016	Analysis Dat	e: 7 <i>1</i>	19/2016	8	SeqNo: 1	108679	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Diesel Range Orga	anics (DRO)	ND	10								
Surr: DNOP		11		10.00		107	70	130			
Sample ID MI	B-26465	SampTyp	e: Mi	3LK	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID: PE	3S	Batch II	D: 26	465	F	RunNo: 3	5794				
Prep Date: 7	/19/2016	Analysis Dat	e: 7/	/20/2016	8	SeqNo: 1	110143	Units: %Red	3		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		10		10.00		101	70	130			
Sample ID LC	CS-26443	SampTyp	e: LC	S	Tes	(Code: E	PA Method	8015M/D: DI	sel Rang	e Organics	
Client ID: LC	css	Batch I	D: 26	443	F	RunNo: 3	5827				
Prep Date: 7	7/18/2016	Analysis Dal	e: 7	/20/2016	5	SeqNo: 1	110532	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLlmit	%RPD	RPDLimit	Qual
Surr: DNOP		4.5		5.000		89.6	70	130			
Sample ID M	B-26443	SampTyj	oe: Mi	BLK	Tes	tCode: E	PA Method	8015M/D: DI	esel Rang	e Organics	
Client ID: PE	BS	Batch I	D: 26	6443	F	RunNo: 3	5827				
Prep Date: 7	7/18/2016	Analysis Da	le: 7	/20/2016	;	SeqNo: 1	110534	Units: %Re	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded

8.8

- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Value above quantitation range Ε

87.5

10.00

- Analyte detected below quantitation limits

70

130

Page 7 of 9

- Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607710

25-Jul-16

Client:

Yates Petroleum Corporation

Project:

Willie BNW State #3

Sample ID MB-26415	SampT	уре: МЕ	BLK	Tes	(Code: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	1D: 26	415	F	RunNo: 3	5780				
Prep Date: 7/15/2016	Analysis D	ate: 7/	18/2016	8	SeqNo: 1	107183	Units: mg/K	g		
Analyle	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Sun: BFB	890		1000		88.6	80	120			
Sample ID LCS-26415	Samp	уре: LC	\$	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	0	

Sample ID LCS-26415	SampT	ype: LC	:\$	Tes	(Code: E	PA Method	8015D: Gaso	oline Rang	0	
Client ID: LCSS	Batch	h ID: 26	415	F	RunNo: 3	5780				
Prep Date: 7/15/2016	Analysis D)ate: 7/	/18/2016	8	SeqNo: 1	107184	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Gasoline Range Organics (GRO)	29	5.0	25,00	0	117	80	120			
Surr: BFB	870		1000		86.6	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 8 of 9

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Jerald "Duncan" Whitlock, Jr. Bureau of Land Management Carlsbad Field Office **Environmental Protection Specialist** 620 East Greene Street Carlsbad, NM. 88220 Office: (575) 234-5926

Fax: (575) 234-5927 Cell: (575) 361-2630

E-mail: dwhitloc@blm.gov

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607710

25-Jul-16

Client:

Yates Petroleum Corporation

Project:

Willie BNW State #3

Sample ID MB-26415	SampT	урв: МЕ	BLK	Tes	lCode: El	PA Method	8021B: Vola	illes		
Client ID: PBS	Batch	n ID: 26	415	F	tunNo: 3	5780				
Prep Date: 7/15/2016	Analysis D)ate: 7/	18/2016	8	ieqNo: 1	107222	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimlt	%RPD	RPDLImit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Sur: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID LCS-26415	Samp?	Type: LC	S	Tes	lCode: E	PA Method	8021B: Vola	liles		
Client ID: LCSS	Batc	h ID: 26	415	F	RunNo: 3	5780				
Prep Date: 7/15/2016	Analysis D	Date: 7/	18/2016	5	SeqNo: 1	107223	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Benzene	0.99	0.025	1.000	0	98.8	75.3	123			
Toluene	0.85	0.050	1.000	0	85.3	80	124			
Ethylbenzene	0.85	0.050	1.000	0	84.5	82.8	121			
Xylenes, Total	2.6	0.10	3.000	0	86.0	83.9	122			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.3	80	120			

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

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Value above quantitation range

Page 9 of 9



Hall Even onmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAN 505-345-4107

Website www.hallenviroumental.com

Sample Log-In Check List

Commence and the latest of the		-	THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.		-				
Client Namo	Yates Petrolour	m Corpora	Work Order N		6077	10		Rep	otNo: 1
Received by/date	e:	A.	3 / 5	t.					
Lagged By.	Lindsay Mang	in	7/15/2016 9:30:0	MA 00			Opoly Klay	Ò	
Completed By:	Lindsay Mang	jin	7/15/2016 10:33	:19 AM			George Way.	ν.	
Reviewed By	1=1-3		miliell	1.2			000		
Chain of Cust	tody		الإدالا	Y.					
	Is intact on samp	de holles?		,	Yns	V	No !	Not Present	
	custody complete				Yes		No L	Not Present	
	sample delivere				Couri		312 13334		
O THE MANAGEMENT				,	22011	<u> </u>			
<u>Log In</u>									
4. Was an allo	mpi made to coe	l the samples	17		Yos	Y	No !	N/	
C Marcallan		- 4			. "		van 1	***	
O vvere all sam	npies received at	a temporatu	ro of >0°C to 6.0°C	, ,	es	V	No L	NA	/ <u>-</u>
6. Sample(s) in	roper containe	r(s)?			Yes	V	No 🗀		
7 Sufficient sar	mpla volume for i	indicated lost	(s)?	,	Yes	V	No 🗔		
	(except VOA and				Yos		No []		
	alive added to ba				Yas	I	No 🗸	NA	.1
						-			E2
10. VOA vials ha					Yes	-	No 🛄	No VOA Vials	
11. Were any sa	imple containers	received bro	ken?		Yus		No 🗹	# of preserve	
12. Does paperw	vork match bottle	labels?		,	Yes	V	No .	bottles check for pH:	ed
	pancies on chain								(<2 or >12 unless noted)
13, Are matrices			of Custody?		Yes		No 📙	Adjuste	G?
14. Is it clear who					Yes		No	Checked	Hsv
15. Were all hold (If no, notify of	ding times able to customer for auti				Yes	Y.	Nol	Greate	тыу
,									
Special Hand	lling (if applic	able)							
16. Was client no	otified of all discr	epancies with	this order?	,	Yes	1	No .	NA	. M i
Person	Notified.			Date		-		,	
By Wh	icn:	-			eMa	ii į	Phone Fa	k In Person	
Regard	ding:								
Cliant I	instructions:								
17. Additional re	omarks:								
18. Cooler Info	rmation								
Cooler No	o Temp °C	-	Soal Inlact Seal I	No Se	al Da	ite	Signed By		
1	2.8 G	ood Y	es					1	

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HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquarque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analy	08	(J/8	66a q ₁ ₂ ((1) (H) (H) (H) (H) (H) (H) (H) (H) (H) (H	8114 800 814 84 81 81 81 81 84 84	bor bur o / o / o / o / o / o / o / o / o / o /	TPH Methorm TPH (Methorm EDB (Methorm & Methorm & Methor	×	×	×	×	×	×		Time: Relinquished by. Remarks: TPH: 8015B, BTEX: 8021B. Please show BTEX
JA B			\$	7								BTEX + M	×	×	×	×	×	×		Remarks: results as chlorides July 22, 2
lum-Around time:	X Standard Need by Friday 7/22/2016	Project Name:	Willie BNW State #3	Project #:	1RP-4342	Project Manager:	Amber Griffin	PO# 205-2020	Sampler: Amber Griffin 45	区 Yes 口 No	Sample Temperature: 2. 9	Container Preservativ HEAL No. Type and # e Type	1-40z. lce	1-40Z Ice Ice	lee -223	1-40Z. Ice	- (1)	1-40z loe - (CC		Received by: Part
Chain-of-Custody Record	Yates Petroleum Corporation			05 South 4th Street Artesia, NM 88210	575-513-8799 or 575-748-4111			☐ Level 4 (Full Vaildation)		☐ Other		Time Matrix Sample Request ID	S:24 Soil Pooling Surface	8:26 Soil Pooling 1"	Pooling 2	8:37 Soil Fooling 3'	9:00 Soil Pooling 4"	9:04 Soil Overspray Surface		Reinquished by: Reinquished by: Reinquished by:
Chain	lient: Yate		lailing Address:	05 South 4th S	, 100e #:	mail or Fax持:	A'O'C Fackage:	: Standard	careditation:	: NELAP	1 EDD (Type)	Date Tir	7/13/2016 8							ate: Time:





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

September 01, 2016

Amber Griffin
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

raa

RE: Willie BNW State 3

OrderNo.: 1608F06

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 8/25/2016 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 qualifers 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report
Lab Order 1608F06
Date Reported: 9/1/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation Client Sample ID: Pooling 5

Project: Willie BNW State 3 Collection Date: 8/23/2016 8:54:00 AM

Lab ID: 1608F06-001 Matrix: SOIL Received Date: 8/25/2016 9:20:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANIC	S				Analys	t: TOM
Diesel Range Organics (DRO)	1500	100		mg/Kg	10	8/30/2016 3:36:01 PM	27220
Surr: DNOP	0	70-130	S	%Rec	10	8/30/2016 3:36:01 PM	27220
EPA METHOD 8015D: GASOLINE F	RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	350	98		mg/Kg	20	8/29/2016 6:35:38 PM	27186
Surr: BFB	167	68.3-144	s	%Rec	20	8/29/2016 6:35:38 PM	27186

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1608F06 Date Reported: 9/1/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Willie BNW State 3 Project:

Lab ID: 1608F06-002

Matrix: SOIL

Collection Date: 8/23/2016 9:03:00 AM

Received Date: 8/25/2016 9:20:00 AM

Client Sample ID: Pooling 6'

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL R/	ANGE ORGANIC	S	•			Analys	t: TOM
Diesel Range Organics (DRO)	1400	97		mg/Kg	10	8/31/2016 12:34:37 PM	A 27220
Surr: DNOP	0	70-130	s	%Rec	10	8/31/2016 12:34:37 PM	A 27220
EPA METHOD 8015D: GASOLINE R	ANGE			•		Analys	t: NSB
Gasoline Range Organics (GRO)	380	94		mg/Kg	20	8/29/2016 6:58:59 PM	27186
Surr: BFB	216	68.3-144	s	%Rec	20	8/29/2016 6:58:59 PM	27186

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
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 5 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Analytical Report Lab Order 1608F06 Date Reported: 9/1/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Willie BNW State 3

Lab ID: 1608F06-003

Project:

Client Sample ID: Pooling 7'

Collection Date: 8/23/2016 9:14:00 AM

Received Date: 8/25/2016 9:20:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S				Analys	: TOM
Diesel Range Organics (DRO)	590	100		mg/Kg	10	8/31/2016 12:56:06 PM	27220
Surr: DNOP	0	70-130	s	%Rec	10	8/31/2016 12:56:06 PM	27220
EPA METHOD 8015D: GASOLINE R	ANGE					Analys	: NSB
Gasoline Range Organics (GRO)	130	25		mg/Kg	5	8/29/2016 7:22:26 PM	27186
Surr: BFB	263	68.3-144	s	%Rec	5	8/29/2016 7:22:26 PM	27186

Matrix: SOIL

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

Qualifiers:

Received by OCD: 9/20/2021 3:45:49 PM

- 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
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 5

- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608F06

01-Sep-16

Client:

Yates Petroleum Corporation

Project

Willie RNW State 3

Project: Willie	BINW State 3									
Sample ID LCS-27220	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015M/D; Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 27	220	F	RunNo: 3	6852				
Prep Date: 8/29/2016	Analysis Da	ite: 8/	30/2016	8	SeqNo: 1	142472	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.4	62.6	124			
Surr: DNOP	4.3		5.000		86.1	70	130			
Sample ID MB-27220	SampTy	pe: ME	3LK	Tes	tCode: E	PA Method	8015M/D: DI	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 27	220	F	RunNo: 3	6852				
Prep Date: 8/29/2016	Analysis Da	ite: 8/	30/2016	8	SeqNo: 1	142473	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Diesel Renge Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		110	70	130			

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
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Value above quantitation range

Page 4 of 5

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608F06

01-Sep-16

Client:

Yates Petroleum Corporation

Project: Willie I	NW State	3								
Sample ID MB-27186	Samp	Гуре: МІ	BLK	Tes	lCode: E	PA Method	8015D: Gase	oline Rang	je	
Cilent ID: PBS	Batc	h ID: 27	186	F	RunNo: 3	6828				
Prep Date: 8/26/2016	Analysis [Date: 8	/29/2016		SeqNo: 1	141862	Units: mg/i	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		84.6	68,3	144			
Sample ID LCS-27186	Samp	ype: LC	s	Tes	(Code: El	PA Method	8015D: Gaso	oline Rang	16	
Client ID: LCSS	Batcl	h ID: 27	186	F	RunNo: 3	6828				
Prep Date: 8/26/2016	Analysis E	Date: 8/	29/2016	8	SeqNo: 1	141863	Units: mg/f	ſg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLImit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.4	80	120			
Surr: BFB	910		1000		90.7	68.3	144			

144

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

E Value above quantitation range

Page 5 of 5



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

Sample Log-In Check List

Client Name: Yates Petroleum Corpora Work Order Number: 1808F06 RepiNo: 1 Received by/data:
Logged By: Ashley Gallegos 8/25/2016 8:20:00 AM Completed By: Ashley Gallegos 8/25/2016 8:50:1:15 PM Reviewed By: W
Reviewed By:
Chain of Custody 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labele? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? Yes W No Checked by: Checked by:
Chain of Custody 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labele? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? Yes W No Checked by: Checked by:
2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Courier 4. Was an eltempt made to cool the samples? Yes Mo No Not Present Not P
2. How was the sample delivered? Log In 4. Was an attempt made to cool the samples? Yes M No No NA 5. Were all samples received at a temperature of >0° C to 6.0°C 8. Sample(s) in proper container(s)? 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? Yes No
4. Was an attempt made to cool the samples? Yes No No NA
4. Was an attempt made to cool the samples? Yes No No NA C NA C NA C Sample(s) in proper container(s)? Yes No No NA C NA C Sample(s) in proper container(s)? Yes No NO NA C NA C Sufficient sample volume for indicated test(s)? No NO NA C NA C Sufficient sample volume for indicated test(s)? NO NO NA C NO NA C NA
5. Were all samples received at a temperature of >0° C to 6.0°C Yes No No NA 6. Sample(s) in proper container(s)? 7. Sufficient sample volume for indicated test(s)? 8. Are semples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be mat? No N
6. Sample(s) in proper container(e)? 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers réceived broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? Yes No
7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? Yes No
8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10.VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? Yes No
9. Was preservative added to bottles? Yes No
10.VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? Yes No No No No Checked by:
11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? Yes No Were all holding times able to be met?
12. Does paperwork match bottle labele? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? Yes W No W Checked by: # of preserved bottles checked for pH: (<2 or >12 unless not part of the property of the pr
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? Yes No Double bottles checked for pH: (<2 or >12 unless no Adjusted? Yes No Double Checked by:
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (<2 or >12 unless not Adjusted? Yes No Checked by:
14, is it clear what analyses were requested? Yes No Checked by:
15. Were all holding times able to be met? Yes No Checked by:
(if no, notify customer for authorization.)
Special Handling (if applicable)
16. Was client notified of all discrepancies with this order?
Person Notified: Date
By Whom: Via:
Regarding:
Client Instructions:
17. Additional remarks:
18. Cooler Information
Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1 3.2 Good Yes
L. T.

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analwsis Roomest	EDB (Method 504.1) 3310 (PNA or PAH) 7CRA 6 Metals 7nlons (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO, 7061 Pesticides / 8082 PCB's 720 (Semi-VOA) 1r Bubbles (Y or N)	3 3 4		Remarks: TPH: 8015B, Results needed by Wednesday, August 31, 2016. Thank you.
HALL ANAL www.hal 1901 Hawkins NE - Tel. 505-345-3975	TPH (Method 418.1)	××	×	Cs. TPH: 131, 2016.
	(1508) 81EX + MTBE + TMB's (6021)			Remarks: August 3:
i unitratouna ririne. ii Standard II Rush Project Name: Willie BNW State #3 Project #:	Project Manager: Amber Griffin PO # 205-2020 Sampler: Amber Griffin On foe: Sample: Amber Griffin Amber Griffin On foe: Sample: Amber Griffin Amber Griffin On foe: On foe: Sample: Sample: Sample: Sample: Sample: Sample: Sample: On foe: Sample: On foe: Inpe and # Fall No.	1:40z lce -001	8 2	Time: Relinquished by: Received by: Received thy: Date Time Remarks: TPH: 8015B, Results needed by Wednesday Relinquished by: Received thy: Date Time Remarks: TPH: 8015B, Results needed by Wednesday Remarks: Thank you.
Chain-or-Custody Record Fient Yates Petroleum Corporation alling Address: 35 South 4th Street Artesia, NM 88210 hone #: 575-513-8799 or 575-748-4111	agriffin@vatespetroleum.com □ Level 4 (Full Validation) □ Other Matrix Sample Request ID	Soil Pooling 5' Soil Pooling 6'	Soil Pooling 7	Relinquished by: Relinquished by: Relinquished by:
Yates P. ress:	E C	8:54 Soil 9:03 Soil	9:14 Soil	Time: R
Ghain lient Yafe alling Address: 35 South 4th S hone #:	nail or Fax#. AQC Padage. Standard coreditation: NELAP EDD (Type)	8/23/2016 8/23/2016	8/23/2016	348: 724 [6 316:

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

CONDITIONS

Action 50432

CONDITIONS

Operator:	OGRID:	
EOG RESOURCES INC	7377	
P.O. Box 2267	Action Number:	
Midland, TX 79702	50432	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	9/21/2021