State of New Mexico Energy Minerals and Natural Resources

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

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

Form C-141 Revised April 3, 2017

1220 S. St. Fran	cis Dr., Santa	Fe, NM 87505	5	Sa	inta Fe	, NM 875	05					
			Rele	ease Notific	ation	and Co	orrective A	ctio	ı			
						OPERA	TOR		X Initia	al Report		Final Report
Name of Co	mpany Ca	Contact Mike Anthony										
Address PC		Telephone No. 432-631-4398										
Facility Nat	ne ANE	Facility Type Salt Water Disposal										
Surface Ow	ner Permi	an Water Se	ervice	Mineral C	wner l	Permian Wa	ter Service		API No	. 30-025-	07713	
				LOCA	TION	N OF RE	LEASE					
						th/South Line Feet from the			East/West Line County			
Р	26	19S	38E	660	Sc	outh	660 Ea		ist	Lea		
			Latitu	de 32.625784	L	ongitude	-103.112811	NAD	33	1		
			Lutitu					THE C				
Type of Rele	ase Prod	uced Water		NAI	UKE	OF REL		ble	Volume F	Recovered	130 bbl	6
Source of Release Water Line						Date and Hour of Occurrence			Date and Hour of Discovery			
						Unknown 7-				5-2017		
Was Immedi	ate Notice (Yes X	No 🗌 Not Re	auired	If YES, To	Whom?					
By Whom?		Date and Hour										
Was a Water	course Read	If YES, Volume Impacting the Watercourse.										
] Yes X	No								
If a Watercov	urse was Im	pacted, Descr	ibe Fully.	*		(
							RECEIVI	: D				
							By Olivia	Yu a	t 8:54 a	am. Fe	b 16.	2018
D 1 0	CD 11	1.D	1. 1. 4. 21	T 1 4		C	-			-		
Describe Cat	ise of Probl	em and Reme	edial Actio	n Taken. [≁]								
Water line b	isted and w	e immediately	y picked u	p all water possib	le – appi	oximately 13	0 bbls					
Describe Are	a Affected	and Cleanup	Action Tal	ken.*				******				
				caliche access ro with NMOCD and				proxima	tely 10,000	sq ft. Rem	rediation	of the
impacted are		nuucicu m ac	coruance		TAMOL	O guidennes.						
				e is true and comp nd/or file certain								
				ce of a C-141 rep								
should their	operations h	ave failed to	adequately	y investigate and	emediat	e contaminat	ion that pose a th	reat to g	ground wate	r, surface w	vater, hun	nan health
				ptance of a C-141	report d	oes not reliev	e the operator of	respon	sibility for c	ompliance	with any	other
Tederal, state	, or local la	ws and/or reg	ulations.				OIL CON	SERV	ATION	DIVISI	ON	
		OIL CONSERVATION DIVISION										
Signature:	In	2 you	rs							, AM	_	
Printed Nam	e: Deni	se Jone	c S		ę	Approved by	Environmental S	Speciali	st:	U T		
Title: Rea	ulatory	Andret				Approval Da	te [.] 2/16/201	8	Expiration	Date:		
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10 March 10		secan	ngmt.com		Conditions of Approval: Attached See attached directive							
Date: 2-	13-18		Phone	432-620-91	81	see atta	chea airecti	ve				
* Attach Add	tional She	ets If Neces	sary		г			(4004	700000			
					'	1RP-496	s InOA	1804	732368			

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Operator/Responsible Party,

The OCD has received the form C-141 you provided on _2/14/2018_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4968_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _3/16/2018_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us