NM OIL CONSERVATION

ARTESIA DISTRICT

District.1 1625 N. French Dr., Hobbs, NM 88240 District.11 811 S. First St., Artesia, NM 88210 District.111 1000 Rio Brazos Road, Aztec, NM 87410 District.1V 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

SEP 1 4 2017

Form C-141 Revised August 8, 2011

**REGEIVED** o appropriate District Office in accordance with 19.15.29 NMAC.

Address       PO Box 4294; Houston, TX 77210       Telephone No.       (575) 390-2828         Facility Name       Sand Dunes 28 Federal #I SWD       Facility Type       SWD         Surface Owner       BLM       Mineral Owner       API No. 30-015-26194         LOCATION OF RELEASE       LocATTON OF RELEASE         Unit Letter       Section       Township       Range       Feet from the       North/South Line       Feet from the       Edst/West Line       County         J       28       23S       31E       Longtude W 103.78000°       NATURE OF RELEASE         Type of Release       Produced Water       Volume of Release 20 bbis       Volume Recovered 0 bbis         Source of Release       Tonk runover due to lack of alarm       Date and Hour of Courrence       Date and Hour of Discovery         9901/2017       Was Immediate Notice Given?       If YES, To Whon?       Mike Bracher, Crystal Weaver. MMOCD; Shelly Tucker- BLM         By Whom?       Wade Dittrich, Oxy Permian       Date and Hour 09/02/017 @ 7.26 pm       If YES, To Whon?         Was a Watercourse was Impacted, Describe Fully.*       Update form(s) at:       http://www.emmod.state.nm.us/         Conference       Op/02/2017 @ 7.26 pm       If YES, Volume Impaction the Watercourse       Http://www.emmod.state.nm.us/         Describe Area Affected and Cleanup Action Ta	Release Notification and Corrective Action											
Name of Company       Oxy Permian Lid.       ///// // // // // // // // // // // //	NABI	12635	1804-			OPERAT	OR	X 1	nitial	Report <b>K</b> Final Report		
Facility Name       Sand Dunes 28 Federal #I SWD       Facility Type       SWD         Surface Owner       BLM       Mineral Owner       API No. 30-015-26194         LOCCATION OF RELEASE       LOCCATION OF RELEASE       County         J       28       31E       Feet from the       North/South Line       Feet from the       East/West Line       County         J       28       31E       Longitude W 103.78000C°       Eddy County, NM         Latitude N.32.27338*       Longitude W 103.78000C°       NATURE OF RELEASE       Volume Recovered 0 bbis       Date and Hour of Discovery         Source of Release       Produced Water       Volume of Release 20 bbis       Volume Recovered 0 bbis       Date and Hour of Discovery         Was Immediate Notice Given?       If YES, To Whom?       Mike Bratcher, Crystal Weaver- MMOCD; Shelly Tucker- BLM         By Whom?       Wade Dittrich, Oxy Permian       Date and Hour of Vol22017 @ 7.26 pm         Was Watercourse was Impacted, Describe Fully.*       Updated form(s) at:       http://www.emmod.state.mm.us/         OED: forms.html       Taken.*       Conservation Division Wesite for updated form(s) at:         If a Watercourse was Impacted, Describe Fully.*       Openion State.mm.us/       OCD/forms.html       Thank you         Lack of alarms caused a tank to run over and leak 20 bbls of produced water on loca	Name of Company Oxy Permian Ltd. 1101910											
Surface Owner       BLM       Mineral Owner       API No. 30-015-26194         LOCATION OF RELEASE       LOCATION OF RELEASE       County       Eddy County, NM         J       28       23S       31E       Longtude W 103,78000°         NATURE OF RELEASE       Eddy County, NM       Eddy County, NM         Latitude N.32.27338"       Longtude W 103,78000°       NATURE OF RELEASE         Type of Release       Produced Water       Volume of Release 20 bbls       Volume Recovered 0 bbls         Source of Release       Tank runover due to lack of alarm       000/01/201       Date and Hour of Occurrence       Date and Hour of Occurrence         90% Introd       Make Bracher, Crystal Weaver- NMOCD; Shelly Tucker- BLM         By Whom?       Wade Dittrich, Oxy Permian       Date and Hour 09/02/07107       P.25 pm         Was a Watercourse Reached?       Yes IN 0       Int Required       Mike Bracher, Crystal Weaver- NMOCD; Shelly Tucker- BLM         By Whom?       Wade Dittrich, Oxy Permian       Date and Hour 09/02/07107       P.25 pm         Was a Watercourse was Impacted, Describe Fully.*       Updated form(s) at:       (try)/www.emmort state mm.us/         Describe Cause of Problem and Remedial Action Taken.*       OCD/ forms.html       Thank you         Lack of alarms caused a tank to run over and leak 20 bbls of produced water on location inside												
LOCATION OF RELEASE         Unit Letter       Section       Township       Range       Feet from the       North/South Line       Feet from the       East/West Line       County         J       28       23S       31E       North/South Line       Feet from the       East/West Line       County       Eddy County, NM         Latitude       N 22,27338"       Longitude       ¥ 103,78000°       NM       Eddy County, NM         Source of Release       Produced Water       Volume of Release 20 bbls       Volume Recovered       0 bbls         Source of Release       Task runover due to lack of alarm       000/17/2017       Date and Hour of Occurrence       Date and Hour of Discovery         Was Immediate Notice Given?       Yes       No       Date and Hour of M02/2017       7:26 pm         Was Phinreh, Cxy Permian       Date and Hour of M02/2017       7:26 pm       No         Was a Watercourse Reached?       Yes       No       If YES, Volume Impaction the Watercourse       Please refer to the New Mexico Oil         Generation Fuel Water       Yes       No       If YES, Volume Impaction the Watercourse       Notice Conservation Division Website for updated forruls) at:         Describe Cause of Problem and Remedial Action Taken.*       OCD/ forms.html       Thank you         Lack of alarms ca	Facility Name Sand Dunes 28 Federal #1 SWD						Facility Type SWD					
Unit Letter       Section       Township       Range       Feet from the       North/South Line       Feet from the       East/West Line       County         J       28       235       31E       Latitude       N32.27338*       Longitude W 103.78006*         NATURE OF RELEASE         Type of Release Tank runover due to lack of alarm       Date and Hour of Decurrence       Date and Hour of Discovery         Was Immediate Notice Given?       Yes       No       No Required       Mike Bratcher, Crystal Weaver- NMOCD; Shelly Tucker- BLM         By Whom?       Wade Dittrich, Oxy Permian       Date and Hour       9070/2017       97.36 pm         Was a Watercourse Reached?       Yes       No       No Required       Wike Bratcher, Crystal Weaver- NMOCD; Shelly Tucker- BLM         By Whom?       Wade Dittrich, Oxy Permian       Date and Hour       907022017 @ 7.36 pm       Please refer to the New Mexico Oil         If a Watercourse was Impacted. Describe Fully.*       If YES, Volume Impaction Division Website for updated form(s) at:       http://www.emrd.state.nm.us/         Describe Cause of Problem and Remedial Action Taken.*       The affected area tak to run over and leak 20 bbls of produced water on location inside containment. No fluids were recovered and the alarms were reset.         Describe Area Affected and Cleanup Action Taken.*       The affected area is approximately 20' x 30' on l	Surface Owner BLM Mineral Owner						API No. 30-015-26194					
J       28       235       31E       Eddy County, NM         Latitude N.32.27338°       Longitude W 103.78006°       NATURE OF RELEASE         Type of Release       Produced Witer       Volume of Release 20 bbls       Volume Recovered 0 bbls       Date and Hour of Discovery 09/01/2017         Was Immediate Notice Given?       Q       If YES, To Whon?       Vade Ditrich. Oxy Permian       Date and Hour 09/02/2017 @ 7.26 pm         Was a Watercourse Reached?       Q yes       Not Required       Mike Bracher, Crystal Weaver- NMOCD: Shelly Tucker- BLM         By Whon?       Wade Ditrich. Oxy Permian       Date and Hour 09/02/2017 @ 7.26 pm       If YES, Volume Impaction the Watercourse         Was a Watercourse Reached?       Q yes       No       Date and Hour 09/02/2017 @ 7.26 pm         If a Watercourse was Impacted. Describe Fully.*       Updated form(S) at: http://www.emmod.state.nm.us/ OCD/ forms.html       Thank you         Describe Cause of Problem and Remedial Action Taken.*       OCD/ forms.html       Thank you         Describe Area Affected and Cleanup Action Taken.*       OCD/ forms.html       Thank you         Describe Cause of Problem and Remedial Action Taken.*       Competator are required to adjoutely investigate and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulators at loperators are required to adjoutely investigate and complete to the best of my knowledge and understand that pursuant to NMOCD rules and	LOCATION OF RELEASE											
Latitude N.32.27338°       Longitude W.103.78006°         NATURE OF RELEASE         Type of Release       Produced Water       Volume of Release 20 bbls       Volume and Hour of Occurrence       Date and Hour of Discovery         Source of Release       Tank runover due to lack of alarm       Date and Hour of Occurrence       Date and Hour of Discovery         Was Immediate Notice Given?       IV es       No       Not Required       Mike Bracher, Crystal Weaver. NMOCD; Shelly Tucker- BLM         By Whom?       Wade Dittrich, Oxy Permian       Date and Hour 09/02/2017 @ 7.26 pm       If YES, Yo Vhom?         Was a Watercourse Reached?       IY es       No       Please refer to the New Mexico Oil         If a Watercourse was Impacted, Describe Fully.*       Updated form(5) at:       http://www.emmord.state.nm.us/         Describe Cause of Problem and Remedial Action Taken.*       OCD/ forms.html       Thank you         Lack of alarms caused a tank to run over and leak 20 bbls of produced water on location inside containment. No fluids were recovered and the alarms were reset.       OCD/ forms.html       Thank you         Describe Area Affected and Cleanup Action Taken.*       The affected and the BLM.       Source of a C-141 report does not releave the oreinor fluid her alarms were reset.         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	Unit Letter	Section									County	
NATURE OF RELEASE           Type of Release         Produced Water         Volume of Release         20 bits         Volume Recovered         0 bits           Source of Release         Tank runover due to lack of alarm         Date and Hour of Occurrence         Date and Hour of Discovery         Date and Hour of Discovery           Was Immediate Notice Given?         If YES, To Whom?         If YES, To Whom?         Date and Hour of Occurrence         Date and Hour of Discovery           By Whom?         Wade Dittrich, Oxy Permian         Date and Hour 09/02/2017 @ 7:26 pm         If YES, Volume Impaction the Matereourse           By Whom?         Wade Dittrich, Oxy Permian         Date and Hour 09/02/2017 @ 7:26 pm         If YES, Volume Impaction the Matereourse           Was a Watercourse was Impacted. Describe Fully.*         If YES, Volume Impaction the Matereourse         updated form(s) at:           Describe Cause of Problem and Remedial Action Taken.*         CocD/ forms.html         Thank you           Lack of alarms caused a tank to run over and leak 20 bbls of produced water on location inside containment. No fluids were recovered and the alarms were reset.           Describe Area Affected and Cleanup Action Taken.*         The affected and Cleanup Action Taken.*           Lek of alarms caused a tank to run over and location inside containment. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and the BLM.           Phereby certify	J2823S31E						Eddy County, NM			Eddy County, NM		
Type of Release       Produced Water       Volume of Release       20 bbls       Volume Recovered       0 bbls         Source of Release       Tank runover due to lack of alarm       Date and Hour of Occurrence         Was Immediate Notice Given?       If YES, To Whom?       If YES, To Whom?       Wike Bracker, Crystal Weaver- NMOCD; Shelly Tucker- BLM         By Whom?       Wade Dittrich, Oxy Permian       Date and Hour 09/02/2017 @ 7:26 pm       Please refer to the New Mexico Oil         Mas a Watercourse Reached?       Yes       No       If YES, Volume Impectiment he Watercourse         Mas a Watercourse was Impacted. Describe Fully.*       Updated form(s) at:       http://www.emmd.state.nm.us/         Describe Cause of Problem and Remedial Action Taken.*       QCD/ forms.html       Thank you         Lack of alarms caused a tank to run over and leak 20 bbls of produced water on location inside containment. No fluids were recovered and the alarms were reset.       Describe Area Affected and Cleanup Action Taken.*         The affected and Cleanup Action Taken.*       The affected and Cleanup Action Taken.*       The affected and the BLM.         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 repond and/or file certain release nolifications	Latitude <u>N 32.27338°</u> Longitude <u>W 103,78006°</u>											
Type of Release       Produced Water       Volume of Release       20 bbls       Volume Recovered       0 bbls         Source of Release       Tank runover due to lack of alarm       Date and Hour of Occurrence         Was Immediate Notice Given?       If YES, To Whom?       If YES, To Whom?       Wike Bracker, Crystal Weaver- NMOCD; Shelly Tucker- BLM         By Whom?       Wade Dittrich, Oxy Permian       Date and Hour 09/02/2017 @ 7:26 pm       Please refer to the New Mexico Oil         Mas a Watercourse Reached?       Yes       No       If YES, Volume Impectiment he Watercourse         Mas a Watercourse was Impacted. Describe Fully.*       Updated form(s) at:       http://www.emmd.state.nm.us/         Describe Cause of Problem and Remedial Action Taken.*       QCD/ forms.html       Thank you         Lack of alarms caused a tank to run over and leak 20 bbls of produced water on location inside containment. No fluids were recovered and the alarms were reset.       Describe Area Affected and Cleanup Action Taken.*         The affected and Cleanup Action Taken.*       The affected and Cleanup Action Taken.*       The affected and the BLM.         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 repond and/or file certain release nolifications					NATI		)F RELE	ASE	_			
Source of Release       Tank nunover due to lack of alarm       Date and Hour of Occurrence       Date and Hour of Discovery         Was Immediate Notice Given?       If YES. To Whom?       If YES. To Whom?       If YES. To Whom?         Was a Watercourse Reached?       If YES. To Whom?       Mike Bratcher, Crystal Weaver- NMOCD: Shelly Tucker- BLM         By Whom?       Wade Dittrich, Oxy Permian       Date and Hour of 09/02/2017 @ 7:26 pm       If Xes. Yolume Impaction to Watercourse         Was a Watercourse Reached?       If Yes       No       Plate and Hour of 09/02/2017 @ 7:26 pm         Was a Watercourse was Impacted, Describe Fully.*       Conservation Division Website for updated form(s) at: http://www.emmrd.state.nm.us/       OCD / forms.html       Thank you         Describe Cause of Problem and Remedial Action Taken.*       OCD / forms.html       Thank you         Lack of alarms caused a tank to run over and leak 20 bbls of produced water on location inside containment. No fluids were recovered and the alarms were reset.         Describe Area Affected and Cleanup Action Taken.*       The affected and Cleanup Action Taken.*         The effected area is approximately 20' x 30' on location inside containment. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and the BLM.         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 and operators have failed to adequately investigate and remediate c											Recovered 0 bbls	
Was Immediate Notice Given?       If YES, To Whom?         Mike Bratcher, Crystal Weaver- NMOCD; Shelly Tucker- BLM         By Whom?       Wade Dittrich, Oxy Permian         Was a Watercourse Reached?       If YES, Yolume Impaction the Watercourse         If a Watercourse Reached?       Yes No         If a Watercourse was Impacted, Describe Fully.*       Please refer to the New Mexico Oil         Conservation Division Website for updated form(s) at:       http://www.emnrd.state.nm.us/         Describe Cause of Problem and Remedial Action Taken.*       OCD/ forms.html       Thank you         Lack of alarms caused a tank to run over and leak 20 bbls of produced water on location inside containment. No fluids were recovered and the alarms were reset.       Describe Area Affected and Cleanup Action Taken.*         Describe Area Affected and Cleanup Action Taken.*       The affected area is approximately 20' x 30' on location inside containment. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and the BLM.         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 public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not releve the operator of inability should their operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger	Source of Release Tank runover due to lack of alarm								2 Date and Hour of Discovery			
By Whon?       Wade Dittrich, Oxy Permian       Date and Hour       09/02/2017 @ 7.26 pm         Was a Watercourse Reached?       If Yes       No       Please refer to the New Mexico Oil         If a Watercourse was Impacted. Describe Fully.*       Please refer to the New Mexico Oil       Onservation Division Website for updated form(s) at: http://www.emmord.state.nm.us/         Describe Cause of Problem and Remedial Action Taken.*       Conservation Division Website for updated form(s) at: http://www.emmord.state.nm.us/         Describe Cause of Problem and Remedial Action Taken.*       Condition inside containment. No fluids were recovered and the alarms were resct.         Describe Area Affected and Cleanup Action Taken.*       The affected area is approximately 20' x 30' on location inside containment. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and the BLM.         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 public health or the environment. The acceptance of a C-141 report does not relieve the operator of liability for compliance with any other federal state, or local laws and/or regulations.         Signature:       Wade Dittrich         Printed Name:       Wade Dittrich         Printed Name:       Wade Dittrich@oxy.com         Ditt CONSERVATION DIVISION       Approval Date: 01/01/11	Was Immediate Notice Given?											
Was a Watercourse Reached?       If YES, Volume Impaction the Watercourse         If a Watercourse was Impacted, Describe Fully.*       Please refer to the New Mexico Oil         Conservation Division Website for updated form(s) at:       http://www.emnrd.state.nm.us/         Describe Cause of Problem and Remedial Action Taken.*       OCD/ forms.html         Describe Cause of Problem and Remedial Action Taken.*       OCD/ forms.html         Describe Area Affected and Cleanup Action Taken.*       OCD/ forms.html         Describe Area Affected and Cleanup Action Taken.*       The affected area is approximately 20' x 30' on location inside containment. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and the BLM.         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 public health or the environment. The 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.         Signature:       Mathematic Action Mathematica Approval Date: Milling         Signature:       Wade Dittrich         Approved by EnviroBingmad Brecients       Approval Date: Milling         Signature:       Wade Dittrich         Approval Date:       Mathemathematicecordinator         E-mail Add								Mike Bratcher, Crystal Weaver- NMOCD; Shelly Tucker- BLM				
Please refer to the New Mexico Oil         If a Watercourse was Impacted, Describe Fully.*       Conservation Division Website for updated form(s) at: http://www.emrd.state.m.us/         Describe Cause of Problem and Remedial Action Taken.*       OCD/ forms.html       Thank you         Lack of alarms caused a tank to run over and leak 20 bbls of produced water on location inside containment. No fluids were recovered and the alarms were reset.       Describe Area Affected and Cleanup Action Taken.*         Describe Area Affected and Cleanup Action Taken.*       The affected area is approximately 20' x 30' on location inside containment. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and the BLM.         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 regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger regulations and vertime containment. The 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.         Signature:       Madd. Matter Alexander         Printed Name:       Wade Dittrich@oxy.com         Printed Name:       Wade Dittrich@oxy.com         Date:       9- MAT         Phone:       (575) 390-2828				mian								
If a Watercourse was Impacted, Describe Fully.*       Conservation Division Website for updated form(s) at: <a href="http://www.emnrd.state.nm.us/">http://www.emnrd.state.nm.us/</a> Describe Cause of Problem and Remedial Action Taken.*       OCD / forms.html       Thank you         Lack of alarms caused a tank to run over and leak 20 bbls of produced water on location inside containment. No fluids were recovered and the alarms were reset.       Describe Area Affected and Cleanup Action Taken.*         Describe Area Affected and Cleanup Action Taken.*       The affected area is approximately 20' x 30' on location inside containment. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and the BLM.         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 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. The adequate 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.         Signature:       OIL CONSERVATION DIVISION         Signature:       Madd. Address:							•					
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approved by both NMOCD and the BLM.         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 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.         Signature:	Describe Are	a Affected	and Cleanup	Action Ta	ken.*							
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Signature:       Medical Autom         Printed Name:       Wade Dittrich         Approved by Environmental Coordinator       Approval Date:         E-mail Address:       Wade_Dittrich@oxy.com         Date:       9-14-17         Phone:       (575) 390-2828	regulations a public health should their o or the enviro	ll operators or the envi operations h nment. In a	are required t ronment. The ave failed to a ddition, NMC	o report a acceptan adequately DCD accept	nd/or file certain ce of a C-141 rep y investigate and i	release n ort by th remediat	otifications a e NMOCD m e contaminat	nd perform correct arked as "Final R ion that pose a th	ctive actions i teport" does r reat to ground	for rel not rel l wate	leases which may endanger leve the operator of liability r, surface water, human health	
Printed Name:       Wade Dittrich       Approved by Environingeneal Specialist//4       Statement         Title:       Environmental Coordinator       Approval Date:       9/10/17       Expiration Date:       9/14         E-mail Address:       Wade_Dittrich@oxy.com       Conditions of Approval:       Attached, D       4402         Date:       9-14-17       Phone:       (575) 390-2828       FMAL       Attached, D		1	. 1.	· .	,			OIL CON	SERVAT	ION	DIVISION	
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## Operator/Responsible Party,

The OCD has received the form C-141 you provided on 9/14/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 300.4403 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  $\frac{2}{2}$  office in <u>ARTESIA</u> on or before <u>10/14/2017</u>. 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; C<sub>6</sub> thru C<sub>36</sub>), 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; C<sub>6</sub> thru C<sub>36</sub>), 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