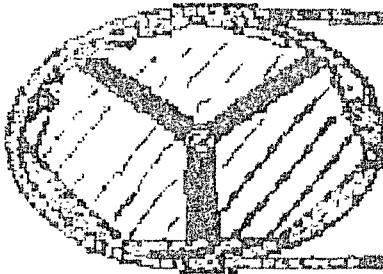


MAY 28 2008  
OCD-ARTESIA



**Yates Petroleum Corporation  
SRC "KZ" State Battery  
Remediation Workplan  
Sec. 1-19s-24e  
Eddy County, N.M.**

May 14, 2008

2RP-159

5/14/2008

## **Spill Summary and Work Plan**

**Incident Date:** 4/4/2008

**Location:** SRC "KZ" State Battery  
Unit G Section 1 T19S R24E  
Eddy County, New Mexico

The well is located 18 miles south west of Artesia, as depicted on the attached Dayton USGS Quadrangle Map. This site lies on the edge of a westward sloping plain cut by dry drainage channels.

Watercourses in the area are dry except for infrequent flows in response to major precipitation events. Area surface geology includes Quaternary Pleistocene conglomerate. The area, dry at the time of the spill, consists of soil that is fine grained, loamy and interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface. Groundwater in the area is estimated to be at a depth of >100 feet.

The ranking for this site is zero (0) based on the as following:

Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

### **Incident Description:**

Full tank of Oil was turned in to be sold. The stock tank lost bottom sometimes during the night. Impacted area was the area surrounding the stock tank and the lease road located in front of the tank battery. A vacuum truck was called to the facility. 100 bbls of oil pooling in the lease road were recovered.

### **Action Taken:**

The leaking stock tank was taken out of service. A new tank battery was reconstructed to the west of the old tank battery site. New stock tanks were brought to the location and set in a lined berm area. The impacted area was the lease road and the area around the stock tank. The impacted area on the lease road was 25' wide x 180' long. The impacted area behind the stock tanks was est. to be 10' x 30'. Equipment was immediately brought to the site. The front section of the lease road was excavated to a depth of 18" BGS. Verbal permission was obtained from NMOCD/Mike Bratcher to excavate the visibly impacted soil from the lease road, take a soil sample from the excavated area for lab analysis, then backfill the excavated lease road back to grade to allow access to the location. The analytical results labeled LR1 from the soil samples taken on 4/4/08 were for the initial excavated lease road area. Excavation was then continued in the impacted area of the tank battery and on the lease road in front of the tank battery leading

out to the main entry road. 4/11/2008 soil samples were taken for analytical from the excavated areas in the tank battery and the lease road. See analytical results for soil samples taken on 4/11/2008. Area Labeled BA1 was over the RRAL for the site. Area labeled BA2 was reported by analytical results to be under the RRAL for the site. The lease road was then excavated to depth of 2'-5' BGS. Soil samples were taken from the excavated area of the lease road on 4/24/2008. The analytical results for the soil samples taken on 4/24/2008 reported the areas labeled LR2 and LR3 to be under the RRAL for the site. The lease road was then backfilled with clean caliches back to grade. The tank battery was then moved to the west and constructed over the lease road. The new tank battery site was constructed with berms and lined with a 20 mil. Liner. New Stock tanks have been set into the new tank battery site. All excavated soil was hauled to Lea Land Inc. for disposal.

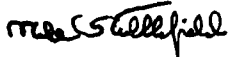
**Closure Plan:**

The impacted soil above the RRAL for the site in the area labeled BA1 will be excavated and hauled, when the stock tank is removed from the former tank battery area. The excavated soils will be hauled to Lea Land Inc. Soil samples will be from the excavated area of the battery for analytical.

The soil samples will be submitted to a second party lab. Analysis will be ran for TPH using EPA Method 8015M, B-TEX using EPA Method 8021. When final analytical results report the TPH & B-TEX to be under the RRAL for the site. The excavated area will be backfilled back to grade with clean top soil and like material. A final C-141 form with attached analytical results will then be submitted to NMOCD requesting closure for the release that occurred on 4/4/2008.

If you have questions or need additional information, please contact me at 505-748-4500.  
Or E-mail me at [mikes@ypcnm.com](mailto:mikes@ypcnm.com).

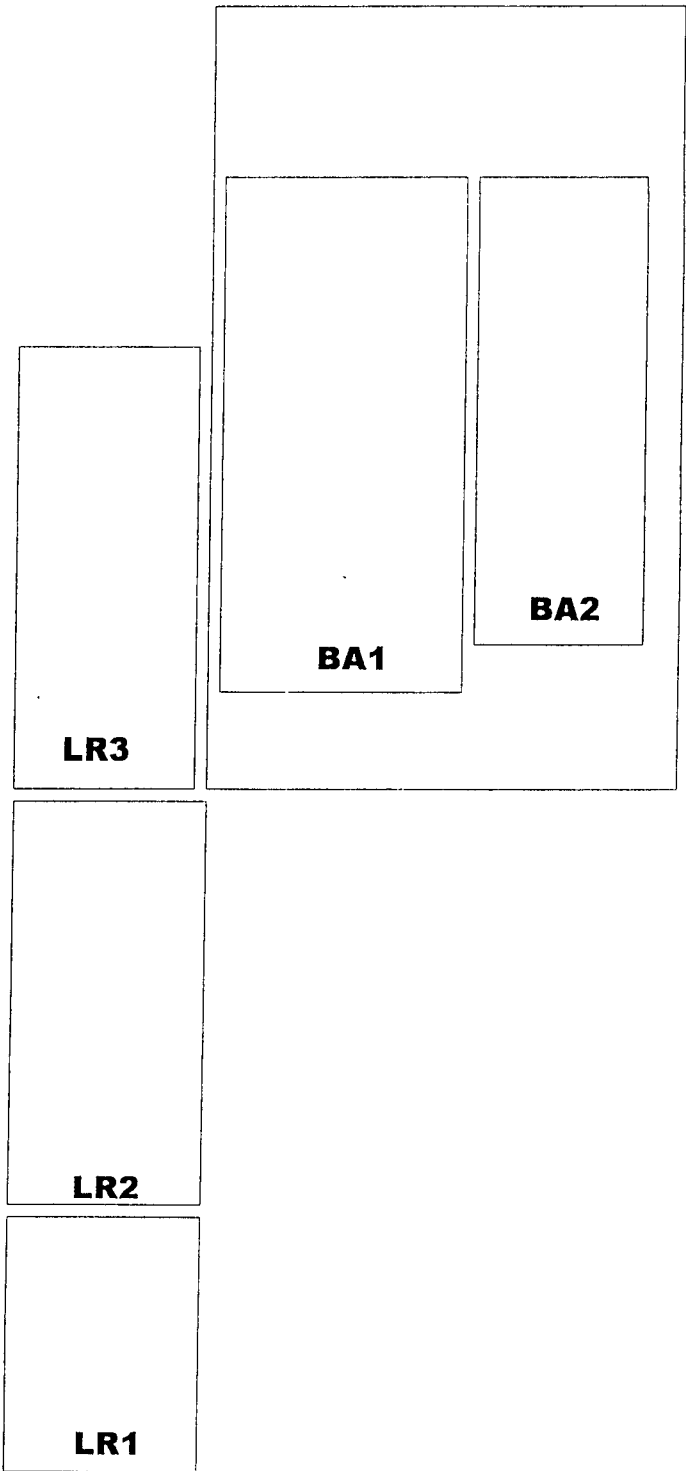
Sincerely,



Mike Stubblefield  
Yates Petroleum Corporation  
Environmental Regulatory Agent

**SrC "KZ" Battery**

**N**



**E**

**S**



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

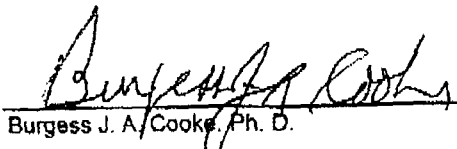
ANALYTICAL RESULTS FOR  
YATES PETROLEUM CORP  
ATTN: MIKE STUBBLEFIELD  
105 SOUTH 4th STREET  
ARTESIA, NM 88210  
FAX TO: (575) 748-4635

Receiving Date: 04/14/08  
Reporting Date: 04/15/08  
Project Number: NOT GIVEN  
Project Name: SRC K2 STATE BATTERY  
Project Location: SEC. 1-19S-24E

Sampling Date: 04/04/08  
Sample Type: SOIL  
Sample Condition: INTACT  
Sample Received By: ML  
Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C <sub>8</sub> -C <sub>10</sub> ) (mg/kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		04/14/08	04/14/08	04/14/08	04/14/08	04/14/08	04/14/08
H14633-1	LR #1 IMPACTED AREA ON LEASE ROAD 18" DEPTH	<10.0	168	<0.002	0.007	0.006	0.012
Quality Control		1090	1050	0.117	0.115	0.104	0.299
True Value QC		1000	1000	0.100	0.100	0.100	0.300
% Recovery		109	105	117	115	104	99.7
Relative Percent Difference		0.9	4.4	1.4	5.2	6.6	2.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

  
Burgess J. A. Cooke, Ph. D.

4/15/08  
Date

H14633 YATES

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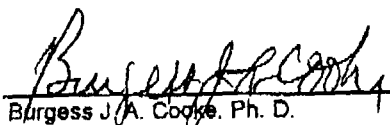
ANALYTICAL RESULTS FOR  
YATES PETROLEUM CORP.  
ATTN: MIKE STUBBLEFIELD  
105 SOUTH 4th STREET  
ARTESIA, NM 88210  
FAX TO: (575) 748-4635

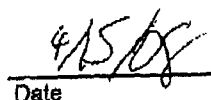
Receiving Date: 04/14/08  
Reporting Date: 04/15/08  
Project Number: NOT GIVEN  
Project Name: SRC STATE "K2" BATTERY  
Project Location: SEC. 1-19S-24E

Sampling Date: 04/11/08  
Sample Type: SOIL  
Sample Condition: INTACT  
Sample Received By: ML  
Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C <sub>8</sub> -C <sub>10</sub> ) (mg/kg)	DRO (C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		04/14/08	04/14/08	04/14/08	04/14/08	04/14/08	04/14/08
H14636-1	LR2 EXCAVATED AREA ON LEASE ROAD 1' DEPTH	884	11,200	0.071	6.52	12.8	24.1
H14636-2	LR3 EXCAVATED AREA ON LEASE ROAD 4' DEPTH	1,120	8,560	0.225	14.7	24.4	45.6
H14636-3	BA1 EXCAVATED AREA IN BATTERY 4' DEPTH	4,310	20,900	10.6	113	103	193
H14636-4	BA2 EXCAVATED AREA IN BATTERY 1' DEPTH	292	2,300	0.075	1.06	4.60	11.1
Quality Control		1090	1050	0.117	0.115	0.104	0.299
True Value QC		1000	1000	0.100	0.100	0.100	0.300
% Recovery		109	105	117	115	104	99.7
Relative Percent Difference		0.9	4.4	1.4	5.2	6.6	2.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

  
Burgess J.A. Cooke, Ph. D.

  
Date

H14636 YATES

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### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page \_\_\_\_ of \_\_\_\_

332-10012. Liability and Damages. Cardiac's liability and that of its officers, directors, agents, employees, independent contractors, and subcontractors, shall be limited to the amount paid by the United States. All claims, including those for negligence and other claims whatsoever by the Government arising out of or resulting from Cardiac's work, shall be subject to the provisions of the applicable law, and may not be brought or prosecuted or compensated against Cardiac's officers, directors, employees, independent contractors, or subcontractors, or any successors, solely on the basis of the performance of services rendered by Cardiac, regardless of whether such claims are brought by or on behalf of the Government or its officers or employees.

Penalty and Condition: Varies will be charged on all persons more than 30 days past due at the rate of 24% per annum from the original date of birth, and 10% of collections including attorney's fee.

Date: <u>4/11/2012</u> Time: <u>11:30 AM</u>		Received By: _____	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: _____
Date: <u>4/11/2012</u> Time: <u>11:30 AM</u>		Received By: (Lab Staff) <u>Misty LeBut</u> <u>4/14/08</u> <u>10:45a</u>	
Sample Condition Temp. °C _____ Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked by: (Initials) <u>MCJB</u>			

† Cardinal cannot accept verbal changes, 2-also fax written changes to (325) 671-7020.





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ANALYTICAL RESULTS FOR  
YATES PETROLEUM CORPORATION  
ATTN: MIKE STUBBLEFIELD  
105 SOUTH 4<sup>TH</sup> STREET  
ARTESIA, NM 88210  
FAX TO: (575) 748-4635

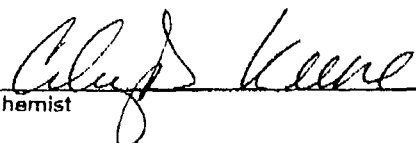
Receiving Date: 04/28/08  
Reporting Date: 05/02/08  
Project Number: NOT GIVEN  
Project Name: SRC STATE "K2" BATTERY  
Project Location: SEC. 1-19S-24E

Sampling Date: 04/24/08  
Sample Type: SOIL  
Sample Condition: INTACT  
Sample Received By: ML  
Analyzed By: CK/BC

LAB NO.	SAMPLE ID	GRO (C <sub>8</sub> -C <sub>10</sub> ) (mg/kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		04/28/08	04/28/08	04/29/08	04/29/08	04/29/08	04/29/08
H14720-1	LR2 EXCAVATED AREA ON LEASE ROAD 2' DEPTH BOTTOM	<10.0	1,780	<0.002	<0.002	0.003	0.012
H14720-2	LR2 EXCAVATED AREA ON LEASE ROAD EAST SIDE BANK	<10.0	1,770	<0.002	0.010	0.016	0.034
H14720-3	LR2 EXCAVATED AREA ON LEASE ROAD WEST SIDE BANK	<10.0	151	0.004	0.031	0.042	0.074
H14720-4	LR2 EXCAVATED AREA ON LEASE ROAD SOUTH SIDE BANK	22.7	163	0.155	0.903*	0.336	0.392
H14720-5	LR3 EXCAVATED AREA ON LEASE ROAD 5' DEPTH BOTTOM	<10.0	82.3	0.004	0.029	0.012	0.018
H14720-6	LR3 EXCAVATED AREA ON LEASE ROAD EAST SIDE BANK	<10.0	2,120	<0.002	0.008	0.012	0.029
H14720-7	LR3 EXCAVATED AREA ON LEASE ROAD WEST SIDE BANK	44.0	2,790	<0.010	0.023	0.130	0.312
H14720-8	LR3 EXCAVATED AREA ON LEASE ROAD NORTH SIDE BANK	<10.0	1,130	<0.002	0.015	0.022	0.045
Quality Control		441	541	0.100	0.110	0.103	0.299
True Value QC		500	500	0.100	0.100	0.100	0.300
% Recovery		88.2	108	100	110	103	99.7
Relative Percent Difference		18.3	2.3	5.3	5.0	3.2	1.7

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

\*Note: Value above linear calibration range. Value should be considered an approximation

  
Chemist

  
Date

H14720BT2 YATES

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Yates Petroleum Corporation	FILE TO:	ANALYSIS REQUEST
Project Manager: Mike Stubblefield	P.O. #:	
Address: 105 South 4th Street	Company: Yates Pet Co.	
City: Artesia State: N.M. Zip: 88210	Attn: M. Kr Stubblefield	
Phone #: 505-513-1912 Fax #: 505-748-4335	Address: 105 South 4th Street	
Project Owner: Mike Stubblefield	City: Artesia	
Project Name: SRC Site "K2" Battery	State: N.M. Zip: 88210	
Project Location: Sec. 1-19S-24E	Phone #: 505-748-4500	
Sampler Name: Mike Stubblefield	Fax #: 505-748-4635	

FOR LAB USE ONLY		DATE: 4/24/08										TIME: 10:00 AM		TPH		B-TX	
Lab I.D.	Sample I.D.	GIRAB OR (COMP. # CONTAINERS)	MATRIX					PRESERV.			SAMPLING		TPH	B-TX			
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE					TIME
H/4720-1	L.R.2 Excavated Area on lane road 2' depth bottom.	C			✓				✓		4/24/08	9:00 AM	✓	✓			
-2	L.R.3 Excavated Area on lane road east side bank.	C			✓				✓		4/24/08	9:15 AM	✓	✓			
-3	L.R.2 Excavated Area on lane road West side bank.	C			✓				✓		4/24/08	9:30 AM	✓	✓			
-4	L.R.2 Excavated Area on lane road South side bank.	C			✓				✓		4/24/08	10:00 AM	✓	✓			
-5	L.R.3 Excavated Area on lane road 5' depth bottom.	C			✓				✓		4/24/08	10:15 AM	✓	✓			

Interest and Commissions: Interest may be charged on a loan according to the terms of the loan. The rate of 21% per annum from the original date of issue, and in case of default, including attorney's fees.

Sampler Relinquished:	Date: 4/25/08 Time: 2:30 pm	Received By:	Phone Results <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Fax Results: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:
maSS Twp, Ripoll			
Relinquished By:	Date: 4/25/08 Time: 2:30 pm	Received By: (Lab Staff) 4/29/08 3:25p	
maSS Twp, Ripoll			
Delivered By: (Circle One)		Sample Condition Temp. °C    Intact?	Checked By. fin(hls) MCB
Sampler - UPS - <u>Bus</u> - Other:		<input type="checkbox"/> Yes <input type="checkbox"/> No	

† Cardinal cannot accept verbal changes, 20334 for written changes to [225] 673-7020.



# CARDINAL LABORATORIES, INC.

2111 Bonchrood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(325) 673-0001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Company Name: <u>Valero Petroleum Corporation</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Mike Stubblefield</u>		P.O. #:			
Address: <u>105 South 4th Street</u>		Company: <u>Valero Corp.</u>			
City: <u>Artesia</u> State: <u>N.M.</u> Zip: <u>88210</u>		Attn: <u>Mike Stubblefield</u>			
Phone #: <u>505-513-1212</u> Fax #: <u>505-948-4335</u>		Address: <u>105 South 4th Street</u>			
Project Owner: <u>Mike Stubblefield</u>		City: <u>Artesia</u>			
Site Name: <u>SRC State "K2" Battery</u>		State: <u>N.M.</u> Zip: <u>88210</u>			
Project Location: <u>Sec. 1-14s. 24e</u>		Phone #: <u>505-948-4500</u>			
Sampler Name: <u>Mike Stubblefield</u>		Fax #: <u>505-948-4635</u>			
FOR LAB USE ONLY		MATRIX		PRESERV.	
		GROUNDWATER		DATE	
		WASTEWATER		TIME	
		SOIL		TPH	
		OIL		D-TEX	
		SLUDGE			
		OTHER:			
		ACID/BASE			
		ICE / COOL			
		OTHER:			
Lab I.D.	Sample I.D.				
<u>AM720-6</u>	<u>L.R.3 Excavated area on lease road east side bank</u>	<u>C</u>	<u>✓</u>	<u>4/24/08</u>	<u>10:30 am</u>
<u>-7</u>	<u>L.R.3 Excavated area on lease road west side bank</u>	<u>C</u>	<u>✓</u>	<u>4/24/08</u>	<u>11:00 am</u>
<u>-8</u>	<u>L.R.3 Excavated area on lease road north side bank</u>	<u>C</u>	<u>✓</u>	<u>4/24/08</u>	<u>11:30 am</u>

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When used Cardinal's Internal will be charged on all projects more than 30 days past due at the rate of 25% per annum from the original date of invoice, and it covers collections, including attorney's fees.

Sampler Requisitioned By: <u>Mike Stubblefield</u>		Date: <u>4/25/08</u>		Received By: _____	
Title: _____		Time: <u>3:30 pm</u>		Phone Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Delivered By: _____		Date: <u>4/25/08</u>		Fax Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Time: <u>3:30 pm</u>		Received By: (Lab Staff) <u>Mike Stubblefield</u>		REMARKS:	
Delivered By: (Circle One) _____		Sample Condition: Temp. °C _____			
Sampler: UPS - <u>(Bus)</u> Other: _____		Interact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Checked By: _____			

† Cardinal cannot accept verbal changes, Please fax written changes to (325) 673-7020

# New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

Joanna Prukop  
Cabinet Secretary  
Reese Fullerton  
Deputy Cabinet Secretary

Mark Fesmire  
Division Director  
Oil Conservation Division



June 11, 2008

Yates Petroleum Corporation  
Attn: Mr. Mike Stubblefield  
105 S 4<sup>th</sup> Street  
Artesia, NM 88210

Reference: SRC 'KZ' State Battery G-1-19S-24E Eddy County, New Mexico  
2RP-159

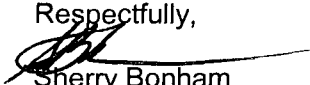
Operator,

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of a remediation work plan (plan) regarding above referenced facility. The plan is approved with the following stipulations:

- Notify the OCD 48 hours prior to obtaining samples where analyses are to be submitted to the OCD.
- Results of analytical data obtained through sampling shall be forwarded to OCD for approval **prior** to any backfilling activities
- A final Report C-141 is to be submitted to the OCD upon satisfactory completion of remediation project.
- Remediation requirements may be subject to change as site conditions warrant.
- Remediation activities to be completed on or before **August 11, 2008**.

Please be advised that NMOCD acceptance of a C-141 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 plan does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Respectfully,

  
Sherry Bonham  
NMOCD District 2  
1301 W Grand Avenue  
Artesia, NM 88210  
575.748.1283 ext. 109  
[sherry.bonham@state.nm.us](mailto:sherry.bonham@state.nm.us)

