

# Correspondence

**Bratcher, Mike, EMNRD**

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**From:** Gladden, Natalie [Natalie.Gladden@apachecorp.com]  
**Sent:** Tuesday, April 12, 2011 12:38 PM  
**To:** Bratcher, Mike, EMNRD; Dade, Randy, EMNRD  
**Cc:** Stockton, Billy  
**Subject:** Empire Abo Unit C49 SWD - Proposal

Mike/Randy,

As you are aware of the release at the above mentioned facility that occurred on 03/29/11, Apache Corporation has excavated in areas inside the containment walls to the depths of 1' to 3' as requested by NMOCD. We have sampled the entire facility floor and at this time the chloride concentrations are ranging from 3000-ppm to 9000-ppm. The two closest water wells are about 4 miles from this facility and according to the documentation the ground water can run from 53' to 65' bgs.

As you are aware Apache just recently purchased this lease; I am fully unaware of any incidents that may have occurred in the past at this facility.

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We propose that we take out a complete level of 3' across the entire floor of the facility, including the berms and place a 40 mill polyurethane liner on the floor and berms of this facility. We will not be able to line under the vessels and tanks, just the main floor of the facility. This will help any migration of contamination to the water table if there is any rain or other releases at this facility. The berms will be constructed to fit the SPCC Plan as well.

We appreciate your time and consideration in this matter. If you would please contact me by email or by cell at the below number, I would greatly appreciate it. I will be waiting a response.

Thank you and have a great afternoon.

*Natalie Gladden*  
EH&S Environmental Tech  
Eunice and Notree's Permian Districts  
Cell 575-390-4186  
Office 575-394-1503 xt 1258  
[natalie.gladden@apachecorp.com](mailto:natalie.gladden@apachecorp.com)





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*New Mexico Office of the State Engineer*  
**Water Column/Average Depth to Water**

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No records found.

**PLSS Search:**

Township: 17S      Range: 29E

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

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## Bratcher, Mike, EMNRD

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**From:** Bratcher, Mike, EMNRD  
**Sent:** Wednesday, April 13, 2011 1:28 PM  
**To:** 'Gladden, Natalie'; Dade, Randy, EMNRD  
**Cc:** Stockton, Billy  
**Subject:** RE: Empire Abo Unit C49 SWD - Proposal

Tracking:	Recipient	Delivery
	'Gladden, Natalie'	
	Dade, Randy, EMNRD	Delivered: 4/13/2011 1:29 PM
	Stockton, Billy	

Natalie,

Thank you for returning my call this morning. As we discussed, OCD will require a delineation of contaminants in the release area. Once that data is available for review, OCD will consider a proposal for remediation and/or closure of the incident. Please notify me 48 hours prior to commencement of delineation activities. Remediation of produced fluid releases on federal surface/mineral sites may be subject to like approval by BLM.

If you have any questions or concerns, and for notification, please contact me.

*Mike Bratcher*

NMOCD DISTRICT 2  
1301 W. GRAND AVE.  
ARTESIA, NM 88210  
575-748-1283 EXT.108  
[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)

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Thank you and have a great afternoon.

*Natalie Gladden*

EH&S Environmental Tech  
Eunice and Notree's Permian Districts  
Cell 575-390-4186  
Office 575-394-1503 xt 1258  
[natalie.gladden@apachecorp.com](mailto:natalie.gladden@apachecorp.com)



**Bratcher, Mike, EMNRD**

---

**From:** Microsoft Outlook  
**To:** Dade, Randy, EMNRD  
**Sent:** Wednesday, April 13, 2011 1:29 PM  
**Subject:** Delivered: RE: Empire Abo Unit C49 SWD - Proposal

**Your message has been delivered to the following recipients:**

[Dade, Randy, EMNRD \(Randy.Dade@state.nm.us\)](mailto:Randy.Dade@state.nm.us)

Subject: RE: Empire Abo Unit C49 SWD - Proposal

**Bratcher, Mike, EMNRD**

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**From:** Microsoft Outlook  
**To:** Gladden, Natalie; Stockton, Billy  
**Sent:** Wednesday, April 13, 2011 1:29 PM  
**Subject:** Relayed: RE: Empire Abo Unit C49 SWD - Proposal

**Delivery to these recipients or groups is complete, but no delivery notification was sent by the destination server:**

Gladden, Natalie (Natalie.Gladden@apachecorp.com)

Stockton, Billy (Billy.Stockton@usa.apachecorp.com)

Subject: RE: Empire Abo Unit C49 SWD - Proposal

## Bratcher, Mike, EMNRD

---

**From:** Bratcher, Mike, EMNRD  
**Sent:** Wednesday, April 13, 2011 3:11 PM  
**To:** 'Gladden, Natalie'; Dade, Randy, EMNRD  
**Cc:** Stockton, Billy  
**Subject:** RE: Empire Abo Unit C49 SWD - Proposal

Natalie: Commencement tomorrow is fine. Please proceed.

*Mike Bratcher*

NMOCD DISTRICT 2  
1301 W. GRAND AVE.  
ARTESIA, NM 88210  
575-748-1283 EXT.108  
[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)

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**Sent:** Wednesday, April 13, 2011 1:34 PM  
**To:** Bratcher, Mike, EMNRD; Dade, Randy, EMNRD  
**Cc:** Stockton, Billy  
**Subject:** RE: Empire Abo Unit C49 SWD - Proposal

My boring machine will be available tomorrow and Friday. I have already scheduled the crews to start at 8am tomorrow morning.

*Natalie Gladden*

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Cell 575-390-4186  
Office 575-394-1503 xt 1258  
[natalie.gladden@apachecorp.com](mailto:natalie.gladden@apachecorp.com)



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**From:** Bratcher, Mike, EMNRD [<mailto:mike.bratcher@state.nm.us>]  
**Sent:** Wednesday, April 13, 2011 2:29 PM  
**To:** Gladden, Natalie; Dade, Randy, EMNRD  
**Cc:** Stockton, Billy  
**Subject:** RE: Empire Abo Unit C49 SWD - Proposal

Natalie,

Thank you for returning my call this morning. As we discussed, OCD will require a delineation of contaminants in the release area. Once that data is available for review, OCD will consider a proposal for remediation and/or closure of the incident. Please notify me 48 hours prior to commencement of delineation activities. Remediation of produced fluid releases on federal surface/mineral sites may be subject to like approval by BLM.

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[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)

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Office 575-394-1503 xt 1258

[natalie.gladden@apachecorp.com](mailto:natalie.gladden@apachecorp.com)



## Bratcher, Mike, EMNRD

---

**From:** Gladden, Natalie [Natalie.Gladden@apachecorp.com]  
**Sent:** Friday, April 15, 2011 7:19 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Stockton, Billy; Carnes, Travis  
**Subject:** RE: Empire Abo Unit C49 SWD - Proposal

Mike,

We are in place to start the boring today. I have several concerns and please advise as to what you would like to see.

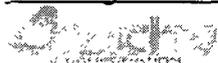
#1 - Due to buried pipelines and power lines overhead we can only safely get one bore from inside the firewall area. Will this be fine with you?

#2 - Since we have the boring machine on site we are going to do a bore to find the ground water if any. If we do find ground water do you want us to develop the well or backfill with cement?

Please instruct, thanks and have a great day.

*Natalie Gladden*

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**From:** Bratcher, Mike, EMNRD [<mailto:mike.bratcher@state.nm.us>]  
**Sent:** Wednesday, April 13, 2011 4:11 PM  
**To:** Gladden, Natalie; Dade, Randy, EMNRD  
**Cc:** Stockton, Billy  
**Subject:** RE: Empire Abo Unit C49 SWD - Proposal

Natalie: Commencement tomorrow is fine. Please proceed.

*Mike Bratcher*

NMOCD DISTRICT 2  
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**Sent:** Wednesday, April 13, 2011 1:34 PM  
**To:** Bratcher, Mike, EMNRD; Dade, Randy, EMNRD

**Cc:** Stockton, Billy  
**Subject:** RE: Empire Abo Unit C49 SWD - Proposal

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*Natalie Gladden*

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**From:** Bratcher, Mike, EMNRD [<mailto:mike.bratcher@state.nm.us>]  
**Sent:** Wednesday, April 13, 2011 2:29 PM  
**To:** Gladden, Natalie; Dade, Randy, EMNRD  
**Cc:** Stockton, Billy  
**Subject:** RE: Empire Abo Unit C49 SWD - Proposal

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**Sent:** Tuesday, April 12, 2011 12:38 PM  
**To:** Bratcher, Mike, EMNRD; Dade, Randy, EMNRD  
**Cc:** Stockton, Billy  
**Subject:** Empire Abo Unit C49 SWD - Proposal

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## Bratcher, Mike, EMNRD

---

**From:** Gladden, Natalie [Natalie.Gladden@apachecorp.com]  
**Sent:** Friday, April 15, 2011 10:02 AM  
**To:** Dade, Randy, EMNRD; Bratcher, Mike, EMNRD  
**Cc:** Stockton, Billy; Carnes, Travis  
**Subject:** RE: Empire Abo Unit C49 SWD - Proposal

Update on the boring. Since we are unable to bore directly inside the bermed area, we are in the process of hand digging down 6' inside the containment walls to find the lines. Once we have located the lines we will at that point try to bore. We are taking samples during the hand digging process. On the water depth bore at 30' we reached red bed mixture then at 40' we hit solid red bed, at that point we went to a total depth of 55', installed pipe to see if the well will develop by Monday. I am positive by this outcome we do not have any ground water in this area.

I will keep you all posted throughout the day.

Thanks,

*Natalie Gladden*

EH&S Environmental Tech  
Eunice and Notree's Permian Districts  
Cell 575-390-4186  
Office 575-394-1503 xt 1258  
natalie.gladden@apachecorp.com



---

**From:** Gladden, Natalie  
**Sent:** Friday, April 15, 2011 8:26 AM  
**To:** Dade, Randy, EMNRD  
**Cc:** Stockton, Billy  
**Subject:** FW: Empire Abo Unit C49 SWD - Proposal  
**Importance:** High

Randy,

I sent the below email to Mike just a few minutes ago and I received a response that he is out till the 19<sup>th</sup>. Can you look at the below email and give me guidance as to what you would like me to do today on the above mentioned site. Thank you so much for your time.

*Natalie Gladden*

EH&S Environmental Tech  
Eunice and Notree's Permian Districts  
Cell 575-390-4186  
Office 575-394-1503 xt 1258  
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**Sent:** Friday, April 15, 2011 8:19 AM  
**To:** 'Bratcher, Mike, EMNRD'  
**Cc:** Stockton, Billy; Carnes, Travis  
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## Bratcher, Mike, EMNRD

---

**From:** Gladden, Natalie [Natalie.Gladden@apachecorp.com]  
**Sent:** Friday, April 15, 2011 10:10 AM  
**To:** Bratcher, Mike, EMNRD; Dade, Randy, EMNRD  
**Cc:** Stockton, Billy; Carnes, Travis  
**Subject:** FW: Red WTR Station

Since we have the boring machine in the area we went ahead and bored for ground water at this facility also. We bored to 35' found red bed, drilled another 15' for a total depth of 50' and still solid red bed. We inserted pipe and will let the well develop. More information on this facility will follow once the new disposal line is completely installed and working.

Thanks,

Natalie Gladden  
EH&S Environmental Tech  
Eunice and Notree's Permian Districts  
Cell 575-390-4186  
Office 575-394-1503 xt 1258  
[natalie.gladden@apachecorp.com](mailto:natalie.gladden@apachecorp.com)

-----Original Message-----

**From:** Gladden, Natalie  
**Sent:** Monday, April 11, 2011 3:04 PM  
**To:** [mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)  
**Cc:** Stockton, Billy  
**Subject:** Red WTR Station

Due to the COG SWD being down we are having to haul our water. We had two trucks loading and apparently they both fell asleep which caused our tanks to over flow while we were still producing. Approximately 170bbbls of produced water was released, we recovered 130bbbls from inside of the berms and 30bbbls from the location. COG should have their line repaired by the end of the week. That's when we will start the remediation. We will have hand crews for inside the battery and will start with equipment on the location once the line is repaired. We will remediate the location according to standard and will discuss with you the findings on the bermed area. C141 to follow.

Sent from my iPhone

**Bratcher, Mike, EMNRD**

---

**From:** Gladden, Natalie [Natalie.Gladden@apachecorp.com]  
**Sent:** Thursday, April 21, 2011 12:03 PM  
**To:** Bratcher, Mike, EMNRD; Dade, Randy, EMNRD  
**Cc:** Hack Conder  
**Subject:** EPA C49 SWD and Red Water Station

Mike/Randy,

Mr. Condor and myself would like to see if we can come meet with the both of you at your office on Wednesday of next week to discuss the remediation's at the above mentioned sites. Please confirm if this will work for you and what time would be best.

Thanks,

*Natalie Gladden*

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