

## Bratcher, Mike, EMNRD

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**From:** Tavarez, Ike <Ike.Tavarez@tetrattech.com>  
**Sent:** Wednesday, July 17, 2013 1:20 PM  
**To:** Bratcher, Mike, EMNRD; James\_Amos@blm.gov  
**Cc:** Pat Ellis (PEllis@concho.com); Robert Grubbs; Joshua Russo; Michelle Mullins (MMullins@concho.com)  
**Subject:** COG Operating - Showstopper 7 Federal COM 1H - Work Plan - Approval Request  
**Attachments:** COG - Showstopper 7 Federal COM 1H - Work Plan .pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Mike and James,

Please find the enclosed Work Plan for the above reference spill site located in Eddy County, New Mexico. The spill has been assessed and the remedial recommendations are included in the work plan. I will mail you a hard copy of the work plan for your files. Once approved, Tetra Tech will schedule the soil remediation and notify you prior to implementing the work plan. Please let me know if you need additional information or call me if you have any questions

**Ike Tavarez, PG | Senior Project Manager**

Main: 432.682.4559 | Fax: 432.682.3946 | Cell: 432.425.3878

[Ike.Tavarez@tetrattech.com](mailto:Ike.Tavarez@tetrattech.com)

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**Table 1**  
**COG Operating LLC.**  
**Showstopper 7 Federal #1**  
**Eddy County, New Mexico**

Sample ID	Sample Date	BEB Sample Depth (ft)	Excavation Bottom Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-1	5/30/2013	0-1	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	4,240
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	2,360
	"	2-2.5	"	X		-	-	-	-	-	-	-	-	2,490
AH-2	5/30/2013	0-1	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	667
AH-3	5/30/2013	0-1	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	493
AH-4	5/30/2013	0-1	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	3,600
AH-5	5/30/2013	0-1	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	599
AH-6	5/30/2013	0-1	0	X		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	629
AH-7	5/30/2013	0-1	0	X		<8.00	63.8	63.8	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	5,710
AH-8	5/30/2013	0-1	0	X		198	4,540	4,738	<0.0400	<0.0400	0.292	1.51	1.80	2,300
AH-9	5/30/2013	0-1	0	X		<4.00	99.7	99.7	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	17,900
AH-10	5/30/2013	0-1	0	X		91.7	1,560	1,652	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	3,850

(-)

Not Analyzed

(BEB)

Below Excavation Bottom



Proposed Excavated Depths

**Bratcher, Mike, EMNRD**

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**From:** Van Curen, Jennifer <jvancure@blm.gov>  
**Sent:** Thursday, July 18, 2013 10:19 AM  
**To:** Ike Tavaréz; Bratcher, Mike, EMNRD  
**Subject:** Re: COG Operating - Showstopper 7 Federal COM 1H - Work Plan - Approval Request

Ike,

I will be managing this spill event for the BLM, so please send further correspondence to me also. The plan is approved with sidewall closure samples taken and evaluated prior to back-filling. I will also need a copy of the vertical delineation that you supply the OCD with. I am a little concerned that the sample results show a large difference in chlorides.

Basically, the area needs to be cleaned to back ground or to 3'. A liner or 9"-12" clay bottom are both accepted practices. If chlorides are deeper, the OCD may want to remove more since the well is in an area with shallower groundwater, but with the clay bottom or liner, the chlorides should not be able to be driven down further.

The hillside to the south shall not be disturbed.

If you have any questions please let me know.

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

On Thu, Jul 18, 2013 at 8:25 AM, Amos, James <jamos@blm.gov> wrote:

----- Forwarded message -----

From: **Tavaréz, Ike** <Ike.Tavaréz@tetrattech.com>  
Date: Wed, Jul 17, 2013 at 1:19 PM  
Subject: COG Operating - Showstopper 7 Federal COM 1H - Work Plan - Approval Request  
To: "Bratcher, Mike, EMNRD (mike.bratcher@state.nm.us)" <mike.bratcher@state.nm.us>,  
"James Amos@blm.gov" <James Amos@blm.gov>  
Cc: "Pat Ellis (PEllis@concho.com)" <PEllis@concho.com>, Robert Grubbs <RGrubbs@concho.com>, Joshua Russo <jrusso@conchoresources.com>, "Michelle Mullins (MMullins@concho.com)" <MMullins@concho.com>

Mike and James,

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## Bratcher, Mike, EMNRD

---

**From:** Bratcher, Mike, EMNRD  
**Sent:** Wednesday, July 24, 2013 11:16 AM  
**To:** 'Tavarez, Ike'; James\_Amos@blm.gov; jvancure@blm.gov  
**Cc:** Pat Ellis (PEllis@concho.com); Robert Grubbs; Joshua Russo; Michelle Mullins (MMullins@concho.com)  
**Subject:** RE: COG Operating - Showstopper 7 Federal COM 1H - Work Plan - Approval Request

Reference: COG \* Showstopper 7 Fed Com 1H \* 30-015-36559 \* A-7-25s-29e \* Eddy County, New Mexico  
NMOCD Tracking Number: 2RP-1641 \* Date of release: 4/15/13

Ike,

OCD approves the proposal to obtain background sample data and to further delineate the areas identified as AH-1, AH-4, and AH-7 through AH-10. In addition, OCD requests the addition of another sample point, closer to the point of release (south of AH-8 and west of AH-7). The proposal to excavate and install a barrier will be considered upon evaluation of the background and delineation results. For delineation purposes, at this time, testing for hydrocarbons (GRO/DRO) will only be required at sample points AH-8, AH-10, and the additional requested sample point.

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

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

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**From:** Microsoft Outlook  
**To:** Tavaréz, Ike; James\_Amos@blm.gov; jvancure@blm.gov; Pat Ellis (PEllis@concho.com); Robert Grubbs; Joshua Russo; Michelle Mullins (MMullins@concho.com)  
**Sent:** Wednesday, July 24, 2013 11:16 AM  
**Subject:** Relayed: RE: COG Operating - Showstopper 7 Federal COM 1H - Work Plan - Approval Request

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

Tavaréz, Ike (Ike.Tavaréz@tetrattech.com)

James\_Amos@blm.gov (James\_Amos@blm.gov)

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Robert Grubbs (RGrubbs@concho.com)

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