

## Bratcher, Mike, EMNRD

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**From:** Tavarez, Ike <Ike.Tavarez@tetrattech.com>  
**Sent:** Monday, April 11, 2016 3:34 PM  
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD  
**Cc:** Amos, James A (jamos@blm.gov); Tucker, Shelly; Gonzales, Clair; Zachary Luikens  
**Subject:** SM Energy - 2RP-2777 - ESDU #2, Eddy County, New Mexico  
**Attachments:** EDSU 2\_Analysis Table 1.pdf; FIG 3a.pdf; FIG 3.pdf

Mike and Shelly,

As recommended, Tetra Tech re-sampled some of the area due to the recent rains in the areas. The locations included shallow impacted areas of AH-2 and AH-4 and we also evaluated the deeper soils in the area AH-3. The NMOCD requested deeper samples to define extents in the area of AH-5 and AH-7 (former reserve pit area). Tetra Tech install boreholes in these areas to define extents.

Referring to Table 1, the surface areas of AH-2 and AH-4 did show a slight decline in chloride concentrations. However, AH-4 did slightly increase at 0-1' of 3,330 mg/kg. The areas AH-5 (BH-1) and AH-7 (BH-2) were vertically defined below 250 mg/kg at depths of 19-20' and 49-50', respectively. The area of AH-3 located south of the pad showed a deeper impact to the soil from surface to approximately 6' below surface, with chlorides ranging from 2,250 mg/kg (0-1') to 20,400 mg/kg (5-5.5'). The re-sampling data showed chlorides significantly declining ranging from 1,460 mg/kg (7-7.5') to 2,790 mg/kg (6-6.5').

Based on the declining chlorides, I would like to discuss the data and path forward for the site. Would you have time to have conference call to discuss? I would like to call you tomorrow if you are available. SM Energy would like to move forward to close out project or move forward on the remediation if needed. Let me know if you have time, thanks

**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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4000 North Big Spring, Suite 401 | Midland, TX 79705 | [www.tetrattech.com](http://www.tetrattech.com)

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