

Bratcher, Mike, EMNRD

From: Wurtz, Gregg <gwurtz@akaenergy.com>
Sent: Friday, August 23, 2013 12:40 PM
To: Bratcher, Mike, EMNRD; jamos@blm.gov
Cc: Wurtz, Gregg
Subject: Frontier Field Services Empire Abo gas plant evaporation pond spill report
Attachments: Table 1, Empire Abo Evaporation Pond Organic Analytical Data Summary, Au....pdf;
Table 2, Empire Abo Evaporation Pond Metals Analytical Data Summary, August 21,
2013.pdf; Spill rpt. Empire Abo evap pond 8_20_2013.pdf

Jim and Mike,

Attached is the Final OCD Release Report for water seepage from the evaporation pond discovered 8/20/2013 at the Empire Abo Gas Plant Frontier Field Services. The release was clean process water from the evaporation pond estimated to be 24 bbls. No water course was impacted and no standing water was observed. The area of the seepage is moist soils with no surface soil staining. I have attached water quality analysis of the pond water collected both north and south in the pond and the water collected at the discharge into the pond. I also included water analysis of the pond collected in 2009. Please contact me if you need further information at 970 759 8984. Thank you.

Vol. of release was calculated using 295 Ft^3 (this number is ave. due to seep area shape) $\times 3.4$ [soil type factor for sand (gal per ft^3)] = 1003 gal. divided by 42 gallons = 23.8 bbls

Thank you.

Gregg

Gregg Wurtz
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Table 1
Evaporation Pond Organic Analytical Data Summary
Frontier Field Services - Empire Abo Gas Plant
Eddy County, New Mexico

Sample ID	Date	Sample Type	Benzene	Ethylbenzene	Toluene	Total Xylenes	GRO	DRO	TPH
Evap Pond North	04/30/2009	Water	<0.0008	<0.002	<0.002	<0.003	--	--	<0.0078
	08/14/2013	Water	<0.0008	<0.002	<0.002	<0.003	<0.0600	0.272	0.272
Evap Pond South	04/30/2009	Water	<0.0008	<0.002	<0.002	<0.003	--	--	<0.0078
	08/14/2013	Water	<0.0008	<0.002	<0.002	<0.003	<0.0600	0.355	0.355
Evap Pond (Discharge Pipe)	04/30/2009	Water	--	--	--	--	--	--	--
	08/15/2013	Water	<0.0008	<0.002	<0.002	<0.003	<0.0600	0.0847	0.0847
Pond #1	3/17/2011	Sediment	<0.2	<0.2	<0.2	<0.2	--	--	282

Notes

Water samples analyzed via EPA SW846 Method 8021B by DHL Analytical, Inc.

Sediment samples analyzed via EPA SW846 Method 8021 (BTEX) and 418.1 (TPH) by Trace Analysis, Inc.

All water values reported in milligrams per liter (mg/L, equivalent to parts per million).

All sediment values reported in milligrams per kilogram (mg/Kg, parts per million).

< values - Indicate the value is less than method detection limit (MDL).

Table 2
Evaporation Pond Total Metals Analytical Data Summary
Frontier Field Services - Empire Abo Gas Plant
Eddy County, New Mexico

Sampl ID	Date	Sample Type	Arsenic	Barium	Cadmium	Calcium	Chromium	Lead	Magnesium	Mercury	Potassium	Selenium	Silver	Sodium
Evap Pond North	04/30/2009	Water	0.0202	0.6750	<0.0003	571	<0.002	0.000528	78.8	<0.00008	15.40	0.00552	<0.001	1250
	08/15/2013	Water	0.0654	0.3710	<0.0003	--	0.00236	0.0053	--	<0.0008	--	0.01100	<0.001	--
Evap Pond South	04/30/2009	Water	0.04770	0.2730	<0.0003	302	<0.002	<0.0003	113	<0.00008	23	0.00493	<0.001	1020
	08/15/2013	Water	0.03020	0.3850	<0.003	--	<0.002	0.0035	--	<0.00008	--	0.01980	<0.001	--
Evap Pond (Discharge Pipe)	04/30/2009	Water	--	--	--	--	--	--	--	--	--	--	--	--
	08/15/2013	Water	0.02200	0.0900	<0.0003	--	0.0028	0.0020	--	<0.00008	--	0.01340	<0.001	--
Pond #1	3/17/2011	Sediment	5.3200	112	--	<0.5	3.79	2.33	--	<0.025	--	<2.0	<5.0	--

Notes

Metals analyzed via EPA SW846 Method 6020 by DHL Analytical Inc. (water) and Trace Analysis, Inc. (sediment)

Mercury analyzed via EPA SW846 Method 7470A by DHL Analytical Inc. (water) and Trace Analysis, Inc. (sediment)

All water values reported in milligrams per liter (mg/L, parts per million).

All sediment values reported in milligrams per kilogram (mg/Kg, parts per million).

< values - Indicate the value is less than method detection limit (MDL).

-- Indicates no data available